



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

1.3.2 Average percentage of courses that include experiential learning through project work / field work / internship during last five years.

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B.E. – Computer Science and Engineering

S. No.	Name of the Course	Course Code	Name of the students	Page No.
1.	Problem Solving and Python Programming	GE8151	Aarthi M Gowsalya G	4
2.	Problem Solving and Python Programming Laboratory	GE8161	Muthuselvi A Bhuvanshankar B	
3.	C Programming Laboratory	CS8261	Laxmancibi SMohammedsamir A	8
4.	Programming in C	CS8251		
5.	Operating Systems	CS8493	Dhanushiya V Gokulakrishnan B	10
6.	Operating Systems Laboratory	CS8461		
7.	Data Structures	CS8391	Komathi S Yuvapriyanka V	13
8.	Data Structures Laboratory	CS8381		
9.	Object Oriented Programming Laboratory	CS8383	Gayathri M	15
10.	Software Engineering	CS8494	Maheshkumar Jaya C Keerthana S	16
11.	Object Oriented Programming	CS8392	Soundarya GG Surendhiran S	
12.	Database Management Systems	CS8492	Arun R Pugazhivelan P	20
13.	Database Management Systems Laboratory	CS8481	Veluprabha S	
14.	Computer Architecture	CS8491	Anisha N Ilakiya S Selvamalini J Soundharya A	22
15.	Environmental Science and Engineering	GE8291	Koteeshwaran P N	24
16.	Design and Analysis of Algorithm	CS8451	Chowmiya SB Pooja Shree K Sangeetha M Vaishnavi V	25
17.	Computer Networks	CS8591	Arunkumar R	26
18.	Networks Laboratory	CS8581	Kishor P Manoranjith M Vignesh S	

S. No.	Name of the Course	Course Code	Name of the students	Page No.
19.	Artificial Intelligence	CS8691	Devi Gayathri S Gowri S Harini R Indhu R	27
20.	Mobile Computing	CS8601	Rajarajan A Swetha B Vasumitha R S Komathi S	29
21.	Mobile Application Development Laboratory	CS8662	Laxmancibi S Mohammedsamir A	31
22.	Internet Programming	CS8651	Devadharshini SS Swetha C Yuvapriyanks S Sowmiya S	32
23.	Internet Programming Laboratory	CS8661	Abinaya S Gayathri M Pooja M Valenteena Collins JP	34
24.	Software Testing	IT8076	Babu R Prakash V Gowtham G Marimuthu R	35
25.	Cryptography and Network Security	CS6701	Harish P Kailash K Kesavan S Karthikeyan S	36
26.	Security Laboratory	CS6711	Babu R	37
27.	Grid and Cloud Computing Laboratory	CS6712	Indira Priyadharshini P Priyanka V Selinbercia S Venmathi S	38
28.	Information Retrivel	CS6007	Sruthi S Shilpa B Jayavarshini G Subhashree S	40
29.	Grid and Cloud Computing	CS6702	Guna M Hariharan S Poovarasan S Soundhar P	42
30.	Service Oriented Architecture	IT6801		
31.	Human Computer Interaction	CS6008	Mohanapreya N Snaha P Menaga T Dharshini P	43
32.	Multicore Architecture and Programming	CS6801	Dharani K JeevithaR Manjula R Praveenkumar M	44


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This is to certify that M-AARTHI

has done INPLANT TRAINING from 23/12/2019 to 29/12/2019

During the training period the performance of the trainee

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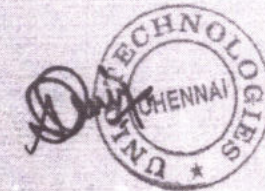
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This is to certify that B. BHUVAN SANKAR
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5th March 2020

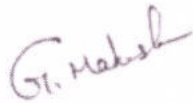
TO WHOM IT MAY CONCERN

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 1st October 2019 to 28th 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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+91 74483 90100 info@crayond.com www.crayond.com

5th March 2020

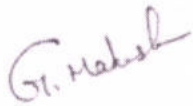
TO WHOM IT MAY CONCERN

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 1st October 2019 to 28th 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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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.

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

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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".

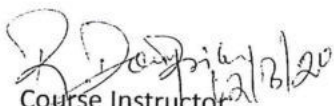
So, the seek time is calculated as:
 $= (190-50) + (190-16)$
 $= 314$

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.

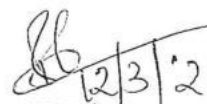
Example:

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:
 $= (190-50) + (190-16) + (43-16)$
 $= 341$


Course Instructor


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CIN : U772200TZ2010PTC016531 | GSTIN : 33AAJCA0385Q1ZB

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. Komathi'.

Director

A handwritten signature in green ink, appearing to read 'S. Komathi'.

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Date: 19/02/2020

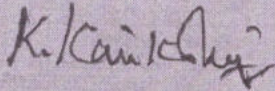
To whomsoever it may concern

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.

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This is to certify that Mr/Ms M. Gayathri, B.E (CSE) of
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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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This certificate is awarded to SURENDRAN . S,
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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

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APRIL 2020

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BONAFIDE CERTIFICATE

Certified that this project report titled "ALUMNI TRACKING SYSTEM" is the bonafide work of "ARUN.R (731616104004), PUGAZHIVELAN.P (731616104031), and VELUPRABHA.S (731616104043)" that carried out the project work under my supervision.


SIGNATURE 22/9/20

HEAD OF THE DEPARTMENT

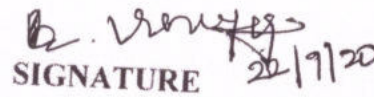
Dr. B. KALAAVATHI

PROFESSOR & HEAD

Department of Computer Science
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SIGNATURE 22/9/20

SUPERVISOR

Mr. R. VENKATESAN M.E.,


ASSISTANT PROFESSOR

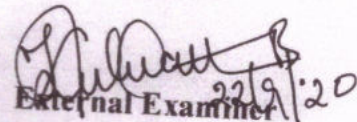
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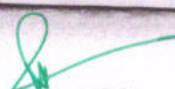
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Submitted for the Project Viva – Voce Examination held on 22.09.2020


Internal Examiner 22/9/2020


External Examiner 22/9/20


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IMPACT**



A PROJECT REPORT

Submitted by

**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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K S R Institute for Engineering and
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Tiruchengode - 637 215


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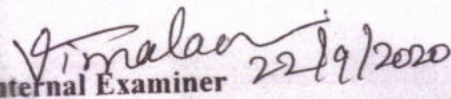
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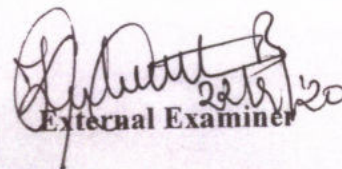
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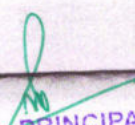
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External Examiner 22/9/20


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

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Internship Training Duration : From: 05.06.2019 To: 21.06.2019.


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A MINI PROJECT REPORT

Submitted by

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POOJA SHREE K
SANGEETHA M
VAISHNAVI V**

*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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Gamers Social Media

A PROJECT REPORT

Submitted by

Arunkumar N 731617104004
Kishor P 731617104024
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K. S. R. KALVI NAGAR,
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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)

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AUGUST 2020


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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report titled "AUTOMATED RATION DISTRIBUTION SYSTEM" is the bonafide work of "DEVI GAYATHRI S (731616104008), GOWRI S (731616104010), HARIINI R (731616104012), INDHU R (731616104036)" who carried out the project work under my supervision.


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SUPERVISOR

Mrs. S. VIMALA M.E.,

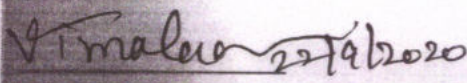
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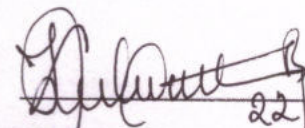
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K S R Institute for Engineering and
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Tiruchengode - 637 215

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**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)

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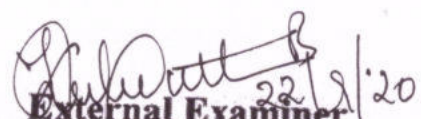
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External Examiner 22/9/2020


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TAMIL NADU.


External Examiner 22/9/20



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

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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

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BONAFIDE CERTIFICATE

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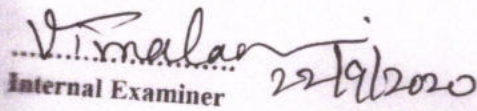

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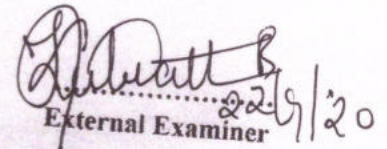
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HEAD OF THE DEPARTMENT
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Submitted for the project work Viva-Voce examination held on
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External Examiner 22/9/20


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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

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DEVELOPING A KEYBOARD FOR CODERS USING ANDROID STUDIO

A MINI PROJECT REPORT

Submitted by

R.BABU

V.PRAKASH

G.GOWTHAM

R.MARIMUTHU

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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
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FAKE CURRENCY DETECTION USING IMAGE PROCESSING



A PROJECT REPORT

Submitted by

INDIRA PRIYADHARSHINI P	(731616104015)
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IN


COMPUTER SCIENCE AND ENGINEERING

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KSR Institute for Engineering and
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SUPERVISOR

Dr.B.KALAAVATHI

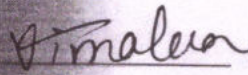
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Computer Science and Engineering

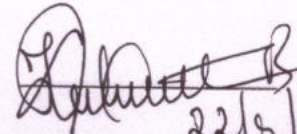
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Tiruchengode-637 215

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22/9/2020

External Examiner


22/9/20
External Examiner


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TIRUCHENGODE-637 215,
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

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IN


COMPUTER SCIENCE AND ENGINEERING

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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

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SIGNATURE 22/9/20

SUPERVISOR

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ASSISTANT PROFESSOR

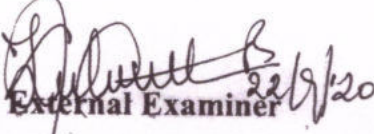
Department of Computer Science
and Engineering


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Tiruchengode - 637 215

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External Examiner 22/9/2020


External Examiner 22/9/20


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NAMAKKAL DISTRICT, 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
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TIRUCHENGODE-637 215,
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

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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

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ANNA UNIVERSITY : CHENNAI 600 025

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Certified that this project report titled "IOT BASED ELECTROLYTE BOTTLE FOR HEALTHCARE" is the bonafide work of "DHARANI K (731616104009), JEEVITHA R (731616104017), MANJULA R (731616104021), PRAVEEN KUMAR M (731616104027)" who carried out the project work under my supervision.


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HEAD OF THE DEPARTMENT
PROFESSOR & HEAD

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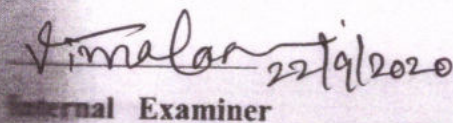

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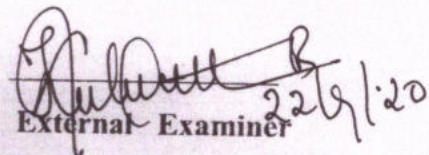
Dr. M. VIMALADEVI
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Tiruchengode - 637 215

Submitted for the project Viva-Voce Examination held on 22.09.20


External Examiner


External Examiner


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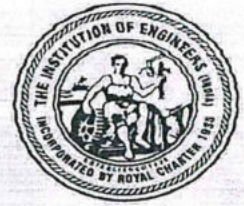
S. No.	Name of the Course	Course Code	Name of the students	Page No.
1.	Digital Logic Circuits	EE6301	Divyadevi.V Mohanraj.S Nithiyasri.R	49
2.	Microprocessors And Microcontrollers	EE6502	Pravin.R	
3.	Microprocessors and Microcontrollers Laboratory	EE6612		
4.	Power Plant Engineering	ME6701	Karthika Devi.S Latha.S	49
5.	Transmission and Distribution	EE6402	Logeshwaran.V Dineshkumar. S	
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7.	Electric Energy Generation, Utilization And Conservation	EE6801	Boopathi.M Akilan.G	
8.	Power Electronics for Renewable Energy Systems	EE6009	Ajitha.P Kaviya.M Bharathi Kannan.M.R Aravind.R	50
9.	Embedded Systems	EE8691	Sakthivel.P	50
10.	Circuit Theory	EE8251	Gokulraj.P Sarathivasan.J	50
11.	Electric Circuits Laboratory	EE8261	Gokulrayar.R	
12.	Electron Devices And Circuits	EC8353	Athif.L Jambukesh.I	50
13.	Electrical Machines I	EE8301	Dhatchanamoorthi A Deenathayalan G	54
14.	Electrical Machines Laboratory - I	EE8311	Naveen N Savuriyappan S Sridhar D Gokulrayar R Athif L	

S. No.	Name of the Course	Course Code	Name of the students	Page No.
15.	Electrical Machines - II	EE6504	Jeeva.M Kamali Soundarya.B	56
16.	Electrical Machines Laboratory - II	EE6512	Madhumitha.J.S Rathnakumar.V	
17.	Design of Electrical Machines	EE6604		
18.	Measurements and Instrumentation	EE8403	Monisa B	57
19.	Linear Integrated Circuits And Applications	EE6303	Kanimozhi.V Navaneethan.S Vivek.V	58
20.	Linear and Digital Integrated Circuits Laboratory	EE6311	Emaiya.K	
21.	Control Systems	IC8451	Hemalatha S	59
22.	Power System Analysis	EE6501	Ganeshbabu.V Monisha.S Sujitha.E	60
23.	Power System Simulation Laboratory	EE6711	Karthi.K	
24.	Power Electronics	EE6503	Bharath.S Iniya Dharini.R	61
25.	Power Electronics and Drives Laboratory	EE6611	Jeeva.R Mythili.N	
26.	High Voltage Engineering	EE6701		
27.	Discrete Time Systems and Signal Processing	EE6403	Akilan.G Boopathi.M Janani.T Nandhini.M	62
28.	Control and Instrumentation Laboratory	EE6511	Mathubalan.S Mugesh.M Pireethi.A	63
29.	Solid State Drives	EE6601	Preetha.E	
30.	Protection and Switchgear	EE6702	Ajitha.P Aravind.R Bharathi Kannan.M.R Kaviya.M	64
31.	Special Electrical Machines	EE6703	Suvetha T	65
32.	Microcontroller Based System Design	EE6008	Mugesh.M Saravanan. V	66

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY



TIRUCHENGODE - 637215



DEPARTMENT OF EEE

IDEA CONTEST

Conducted by



BEES ASSOCIATION

CHIEF GUEST

Mr.T.PRABAKARAN

Regional Manager (India)

Live Wire, Chennai


Date: 02.08.2019

Venue: Power Electronics lab

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

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DEPARTMENT OF EEE
IDEA Contest(2019-20)

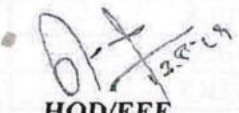
BATCH NO	STUDENT NAME	PROJECT TITLE	YEAR
1	KAVINKUMAR.K	CARDIOPULMONARY RESUSCITATION(CPR) DEVICE WITH AN ARTIFICIAL INTELLIGENCE	IV
	SARAVANAN.V		
	SIBIN.S		
	HARIHARAN.R		
2	ANBALAGAN.M	RFID VOTING SYSTEM	IV
	PRAVEEN.D		
	PREMKUMAR.G		
	SHANKAR NARAYAN.M		
3	MANOJKUMAR.V	UNDERGROUND DRAINAGE MONITORING SYSTEM USING IOT	IV
	MERLIN INFANTA.S		
	PRAKASH.S.P		
	SARANYA.P		
4	DIVYADEVI.V	VEHICLE STARTING SYSTEM USING FINGERPRINT	IV
	MOHANRAJ.S		
	NITHIYASRI.R		
	PRAVIN.R		
5	MATHUBALAN.S	HOME EXNORA	IV
	MUGESH.M		
	PIREETHI.A		
	PREETHA.E		
6	BHARATH.S	PREPARED ENERGY METER USING SMART CARDS	IV
	INIYA DHARINI.R		
	JEEVA.R		
	MYTHILIN		
7	KARTHIKA DEVI.S	SOLAR CAR	IV
	LATHA.S		
	LOGESHWARAN.V		
	DINESHKUMAR.S		
8	NANDHINI.M	ELECTRIC VEHICLE CHARGING EQUIPMENT	IV
	JANANI.T		
	BOOPATHI.M		
	AKILAN.G		
9	VIVEK.V	ATMOSPHERIC WATER GENERATOR	IV
	KANIMOZHI.V		
	NAVANEETHAN.S		
	EMAIYA.K		
10	GANESHBABU	HERBAL DETECTOR	IV
	KARTHIK.K		
	MONISHA.S		



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DEPARTMENT OF EEE
IDEA Contest(2019-20)

BATCH NO	STUDENT NAME	PROJECT TITLE	YEAR
	SUJITHA.		
11	JEEVA.M	MASS DUST COLLECTOR	IV
	MADHUMITHA.J.S		
	RATHNAKUMAR.V.V		
	KAMALI SOUNDARYA.B		
12	AJITHA.P	PROSOPIS JULIFLORA PODS MASH FOR BIOFUEL ENERGY PRODUCTION	IV
	KAVIYA.M		
	BHARATHI KANNAN.M.R		
	ARAVIND.R		
13	VINOTH KUMAR.R	AI BASED DOMESTIC WATER MANAGEMENT SYSTEM	III
14	SAKTHIVEL.P	EELECTRONOC NOTEPAD	III
15	GOKULRAJ.P	AUTOMATIC HOME APPLICATIONS	II
	SARATHIVASAN.J		
	GOKULRAYAR.R		
16	ATHIF.L	AIR SUSPENS6ION	II
	JAMBUKESH.I		



ASSOCIATION CO-ORDINATOR


HOD/EEE


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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
1	KAVINKUMAR.K	CARDIOPULMONARY RESUSCITATION(CPR) DEVICE WITH AN ARTIFICIAL INTELLIGENCE	40	30	70	
	SARAVANAN.V					
	SIBIN.S					
	HARIHARAN.R					
2	ANBALAGAN.M	RFID VOTING SYSTEM	45	46	91	I
	PRAVEEN.D					
	PREMKUMAR.G					
	SHANKAR NARAYAN.M					
3	MANOJKUMAR.V	UNDERGROUND DRAINAGE MONITORING SYSTEM USING IOT	41	29	70	
	MERLIN INFANTA.S					
	PRAKASH.S.P					
	SARANYA.P					
4	DIVYADEVI.V	VEHICLE STARTING SYSTEM USING FINGERPRINT	40	40	80	
	MOHANRAJ.S					
	NITHIYASRI.R					
	PRAVIN.R					
5	MATHUBALAN.S	HOME EXNORA	30	40	70	
	MUGESH.M					
	PIREETHA.A					
	PREETHA.E					
6	BHARATH.S	PREPARED ENERGY METER USING SMART CARDS	41	40	81	
	INIYA DHARINI.R					
	JEEVA.R					
	MYTHILIN					
7	KARTHIKA DEVL.S	SOLAR CAR	30	45	75	
	LATHA.S					
	LOGESHWARAN.V					
	DINESHKUMAR.S					
8	NANDHINI.M	ELECTRIC VEHICLE CHARGING EQUIPMENT	33	40	73	
	JANANI.T					
	BOOPATHI.M					
	AKILAN.G					
9	VIVEK.V	ATMOSPHERIC WATER GENERATOR	35	35	70	
	KANIMOZHILV					
	NAVANEETHAN.S					
	EMAIYA.K					
10	GANESHBABU	HERBAL DETECTOR	38	35	73	
	KARTHIK.K					
	MONISHA.S					


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 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					

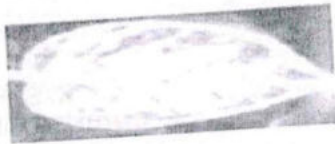
Jury's Signature

Association Co-ordinator

HOD/EEE

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IMAGE PREPROCESSING



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TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU.



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STEEL AUTHORITY OF INDIA LIMITED
सेलम इस्पात संयंत्र
SALEM STEEL PLANT

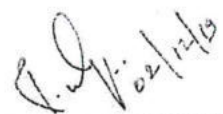
Ref No TR-15(4) / 13207


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)


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TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

सेलम - 636 013 तमिलनाडु
Salem-636 013 Tamil Nadu

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

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

वेबसाइट : 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

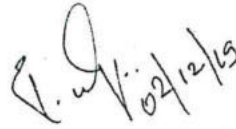
Ref No TR-15(4) / 13211


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**.



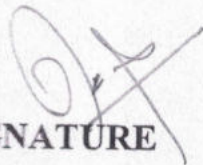

R ULAGANATHAN
DGM(HRD)


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TIRUCHENGODE-637 215,
NAMAKKAL DI, 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

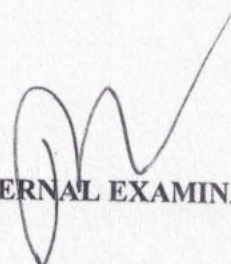


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**K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,**

TAMIL NADU.



EXTERNAL EXAMINAR



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)

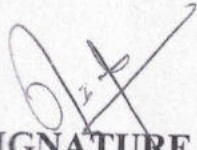
Tai


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TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.

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.,

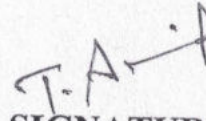
HEAD OF THE DEPARTMENT

Professor & Head

Electrical and Electronics Engineering,

K S R Institute for Engineering and
Technology,

Tiruchengode – 637 215.



SIGNATURE

Mr.T.ARVID M.E.,

SUPERVISOR

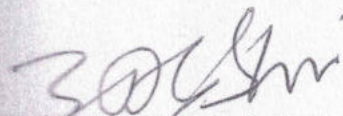
Assistant Professor

Electrical and Electronics Engineering,

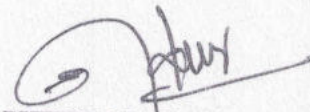
K S R Institute for Engineering and
Technology,

Tiruchengode – 637 215.


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



INTERNAL EXAMINER



EXTERNAL EXAMINER



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

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,

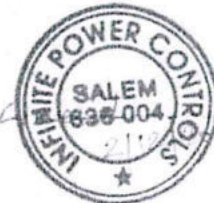
Reg no: 731618105009

Deg/Branch: BE-EEE

Place: salem

Date:02-12-2019

Infinite power controls



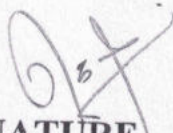
A handwritten signature in green ink, appearing to be a stylized name.

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NAMAKKAL Dt, 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

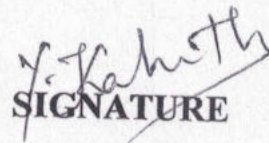
Professor

Electrical and Electronics Engineering,

K S R Institute for Engineering

and Technology,

Tiruchengode-637215



SIGNATURE

Mr. Y.KALIMUTHUM.E.,

SUPERVISOR

Assistant Professor

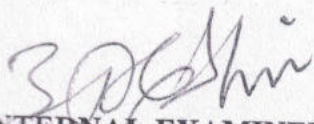
Electrical and Electronics Engineering,

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NAMAKKAL DI. TAMIL NADU.**

ANNA UNIVERSITY :: CHENNAI 600 025

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

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ANNA UNIVERSITY: CHENNAI 600 025

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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

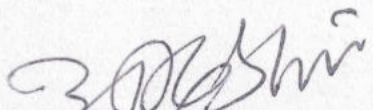
Professor

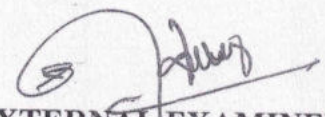
Electrical and Electronics Engineering,

K S R Institute for Engineering
and Technology,

Tiruchengode -637 215.

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ii

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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
Thiruchengode-637 215

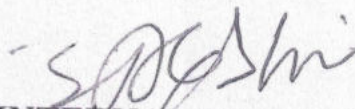

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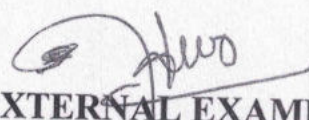
Mrs. R. SACITHRAA M.E.,


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.

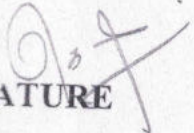

INTERNAL EXAMINER


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.


SIGNATURE

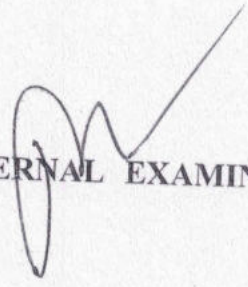
Dr. P. VEENA, M.E., Ph.D.,


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

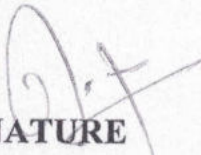

EXTERNAL EXAMINER


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

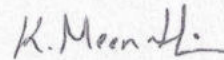
HEAD OF THE DEPARTMENT

Professor & Head

Electrical and Electronics Engineering,

K S R Institute for Engineering and
Technology,

Tiruchengode - 637215.



SIGNATURE

Mrs.K.MEENATCHI M.E.,

SUPERVISOR

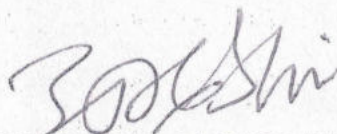
Assistant Professor

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

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

Extraction. Filtration. Clean Air.

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




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

Neos Air Filtration Pvt Ltd

58 D 5th Cross Street Sesto 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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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

1.3.2 Average percentage of courses that include experiential learning through project work / field work / internship during last five years

B.E. – Electronics and Communication Engineering

S. No.	Name of the Course	Course Code	Name of the students	Page No.
1.	Control Systems Engineering	EC8391	1.K.Amutha 2.K.Thangaraj 3.S.Prasanth	70
2.	Communication Theory	EC8491	1.P.Joy Princy 2.J.Dhivin Rithik 3.G.Ranjith	73
3.	Digital Communication	EC8501	1. Shanmathi.M.M 2.Yasodha P 3. Sinduja.K	76
4.	Communication Networks	EC8551	1. Shanmathi.M.M 2.Yasodha P 3. Sinduja.K	76
5.	Communication Systems Laboratory	EC8561	1. Shanmathi.M.M 2.Yasodha P 3. Sinduja.K	76
6.	Communication Networks Laboratory	EC8563	1. Shanmathi.M.M 2.Yasodha P 3. Sinduja.K	76
7.	Discrete-Time Signal Processing	EC8553	1.Dhanushkodi.N 2. Gokulnath.N 3.Hariharasudhan.R	79
8.	Digital Signal Processing Laboratory	EC8562	1.Dhanushkodi.N 2. Gokulnath.N 3.Hariharasudhan.R	79
9.	Computer Architecture and programming	EC8552	1. Naveen.S.S 2. G.P.Swetha 3. Premela. R	82
10.	Medical Electronics	EC8073	1.Keerthivasan.R	85
11.	Microprocessors and Microcontrollers	EC8691	1. Harish kumar.R	87
12.	Microprocessors and Microcontrollers Laboratory	EC8681	2. Dhanish. V	
13.	VLSI Design	EC8095	Sivasankaran.K	89
14.	Wireless Communication	EC8652		
15.	Wireless Networks	EC8004		
16.	VLSI Design Laboratory	EC8661		

S. No.	Name of the Course	Course Code	Name of the students	Page No.
17.	Transmission Lines and RF Systems	EC8651	Tejaswini.S	90
18.	Professional Communication	HS8581	1.Janarth.S 2.Manjula.T	91
19.	RF and Microwave Engineering	EC6701	1.Akshaya N M 2.Bhavyashree S 3.Iswarya P	93
20.	Embedded and Real Time Systems	EC6703	1.Abishek.T 2.Adhithya Kumar.M 3.Anantha Krishnan.P 4.Durairaj.S	95
21.	Embedded Laboratory	EC6711	1. Abdulkadhar S 2. Brahadeeswaran M 3.G.Santhiya	96
22.	Wireless Communication	EC6801	1.Roshini T 2.Tamilarasi S 3.Nandhakumar P 4.Sakthipriya S	99
23.	Opto Electronic Devices	EC6016	1.Naresh Kumar S 2. Sellakrishnaraja S 3.Sharveshram K.R 4. Thangavel P	101
24.	Digital Image Processing	IT6005	1.N.Poornima 2.M.Priyadharshini 3.R.Shyam Sundar 4.G.Srimathi	103
25.	Wireless Networks	EC6802	1.Nivetha.T 2.Priyanka.S S 3.Sumathi.R 4.Suriya.E	105
26.	Professional Ethics in Engineering	GE6075	1.S.Dinesh Krishna 2.M.Gowtham 3.K.Logesh Kumar 4.R.Lakshmanan	107
27.	Optical and Microwave Laboratory	EC6712	1.Akshaya N M 2.Bhavyashree S 3.Iswarya P	110



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

R. ULAGANATHAN
 DGM(HRD)

[Signature]
 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

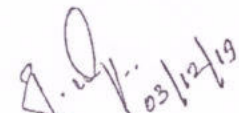
Ref No TR-15(4) / 13216


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
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

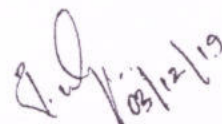
Ref No TR-15(4) / 13217

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.



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.

BSNL

This is to certify that P. JOY PRINCEY
2018-2019 Student of K.S.R. Institute for Engineering
and Technology, Tiruchengode,
with Roll No. 18IETE017 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 DISTRICT, TAMIL NADU.

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

Date : 29.11.2019,

Place : Erode.



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 thatJ. DAIWIN.RITHIK.....

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

with Roll No. 18.I.E.T.0009 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

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BSNL

BSNL

This is to certify that GI.RANJITH

2018-2022 year Student of K.S.R. Institute for Engineering and Technology, Tiruchengodes with Roll No. 18IETE0025 has undergone the Training on Fundamentals of Telecom

from 25.11.2019 to 29.11.2019 in this organisation.

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TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

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

Date : 29.11.2019,

Place : Erode.

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.

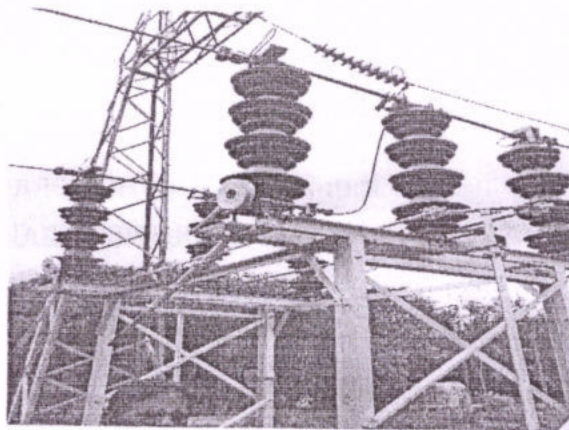
Our schedule on SALEM SOUTHERN RAILWAY training is that

DAY	TOPICS	LOCATION
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


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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

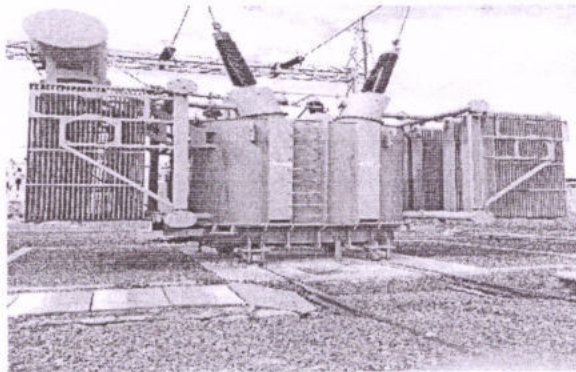
On the first day of my training under the topics, I got theoretical knowledge about the supply of power to the train, manufacturing of track, simulation for the control unit training, parts of the train etc. After that I went to the main control unit, In that shop I have observed how they are turning 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 4th and 5th day of my training, they thought me about complete procedure of signal transmission and communication, they give us a better view of On 6th


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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

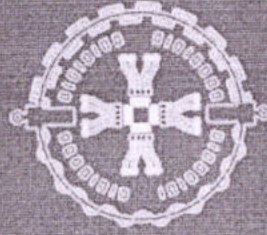
Yours Faithfully,

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 Dt. TAMIL NADU.



TPEP
Towards Femo...

Ref: TPEP/IPT/501
Date: 05/12/2019

TO WHOM IT MAY CONCERN

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



For T-PEP
Authorized Signatory


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

Trusted Portable Electro Point

TPEP

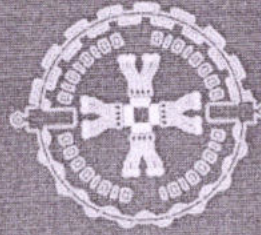
Research and Product Development

108, 1st Floor, Bharathiar Road, Aiswarya Avenue, Ganapathy, Coimbatore – 641 006.

Website: www.tpep.co.in

Mail: info.tpep@gmail.com

Phone: +91 97153 07957.



TPEP
Towards Femo...

Ref: TPEP/IPT/503
Date: 05/12/2019

TO WHOM IT MAY CONCERN

This is to certify that **Mr.N.Gokulnath(731617106017)**, 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

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



For T-PEP
Authorized Signatory

Trusted Portable Electro Point

TPEP

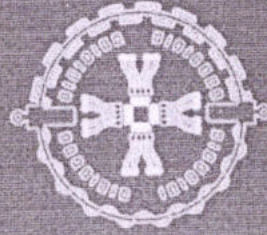
Research and Product Development

108, 1st Floor, Bharathiar Road, Aiswarya Avenue, Ganapathy, Coimbatore – 641 006.

Website: www.tpep.co.in

Mail: info.tpep@gmail.com

Phone: +91 97153 07957.




TPEP
Towards FEMTO...

Ref: TPEP/IPT/500
Date: 05/12/2019

TO WHOM IT MAY CONCERN

This is to certify that **Mr.R.Hari hara sudhan(731617106020)**, a student of III year B.E – Department of Electronics and Communication Engineering, KSR Institute for Engineering and Technology, Namakkal, TamilNadu 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


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



For T-PEP
Authorized Signatory

Trusted Portable Electro Point

TPEP

Research and Product Development

108, 1st Floor, Bharathiar Road, Aiswarya Avenue, Ganapathy, Coimbatore – 641 006.

Website: www.tpep.co.in

Mail: info.tpep@gmail.com

Phone: +91 97153 07957.

Date: 03/12/2019

INTERNSHIP CERTIFICATE


This is to inform that **Mr. NAVEEN S.S**, 3rd 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 27th 2019 to December 03rd 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

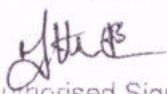
INTERNSHIP CERTIFICATE


This is to inform that Ms. SWETHA G.P, 3rd 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 27th 2019 to December 03rd 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.

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

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Date: 03/12/2019

INTERNSHIP CERTIFICATE

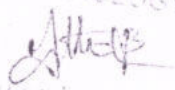
This is to inform that Ms. PREMELA R, 3rd year B.E., Electronics & Communication Engineering student of K S R INSTITUTE FOR ENGINEERING & TECHNOLOGY, Tiruchengode, has attended Internship training in our organization from November 27th 2019 to December 03rd 2019.

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

Thanking You.


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(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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28/12/2019

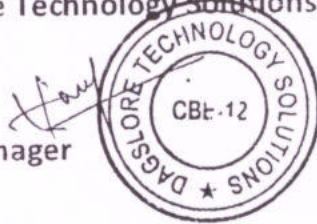
TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. HARISH KUMAR R (Reg. No: 731617106022)**,
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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Software Development | Industrial Automations | Web Hosting & Designing | Mobile Applications | Research & Development

Head Office :

Business Centre :

US Address :

28/12/2019


TO WHOMSOEVER IT MAY CONCERN

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,




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30.11.2019

Internship Training Certificate

This is to certify that Mr. SIVASANKARAN.K, III Year, Department of ELECTRONICS AND COMMUNICATION ENGINEERING, K.S.R. INSTITUTE FOR ENGINEERING AND TECHNOLOGY, Tiruchengode has completed internship training programme on "Industrial IoT using LoRaWAN Technology" at Enthi Technology Solutions India Pvt. Ltd., Coimbatore from 25.11.2019 to 30.11.2019.

For Enthi Technology Solutions India Pvt. Ltd.,
Coimbatore.

[Handwritten Signature]



Authorised Sign

[Handwritten Signature]

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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

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e : rsachud@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



Certificate No : A00IPT4691

CERTIFICATE

To Whomsoever it May Concern

This is to certify that JANARTH S student of

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY has successfully completed his/her

INPLANT TRAINING FOR NETWORKING

from the period 02-12-2019 to 04-12-2019

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Reg. No.: TN07E0021273

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Certificate No : A00IPT4687

CERTIFICATE

To Whomsoever it May Concern

This is to certify that MANJULAT student of

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY has successfully completed his/her

INPLANT TRAINING FOR NETWORKING

from the period 02-12-2019 to 04-12-2019



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**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

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SEPTEMBER :2020


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ABSTRACT

5G technology is emerging in India with our need for fastest means of communication. Even though providing a fastest means of network, it must also provide a multiband operation thus providing multiple input and multiple output. Hence MIMO concept is introduced to obtain these criteria. An antenna element that has not only the self-isolated property but also a compact size is proposed for the fifth-generation multiple-input and multiple-output (MIMO) system in mobile phone applications. The size reduction of the proposed antenna is done by introducing two vertical stubs into the original self-isolated antenna element. A very good isolation and antenna efficiency for an 8-antenna MIMO system can be obtained without using any additional isolation elements or decoupling techniques. Multiband frequency can be achieved by introducing slits and slots on the vertical stubs. An 8- antenna Multiple Input Multiple Output (MIMO) operating at the frequency range of 700MHz, 1800/1900 MHz, 2-4GHz, 24GHz, 28GHz and 40GHz bands for 5G smart phone applications is presented and prototype is simulated using Ansoft HFSS tool.

Keywords: 5G, Self-isolated antenna, MIMO, Multiband operation, slits and slots.



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Prof. Moorthy Selvakumaran
Chief Executive Officer

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 Insitute 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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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.

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

For Candidate

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15/10/2019

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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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RITS Consulting & Technologies Pvt Ltd,
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Hosur, Tamilnadu.

15/10/2019

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

A PROJECT REPORT

Submitted by

ROSHINI T	(731616106060)
TAMILARASI S	(731616106076)
NANDHAKUMAR P	(731616106045)
SAKTHIPRIYA S	(731616106061)

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

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NAMAKKAL DL, TAMIL NADU.**

ABSTRACT

Smart homes and bike systems are needed for convenience and safety. This system invented to keep home safe from an intruder. In this work, we present the design and implementation of a GSM-based wireless home security system and LCD alert in bike. which takes very little power. The system is a wireless home network that contains a GSM modem and magnet with a relay which are door security nodes includes with a fire sensor. The system can respond rapidly as intruder detect and GSM module will do alert respective person mobile SMS alert and also alert in the bike LCD display. In this project, we implemented a smart bike contains an LCD and fingerprint system. This bike will start if only concern person fingerprint is accepted. This security system for alerting a house owner in bike LCD wherever he driving in Bike. In this system, a relay and magnet installed at the entry point to precedence produce a signal through a public telecom network and sends a message that tells about your home update or predefined message which is embedded in the microcontroller. Suspected activities are conveyed to a remote users through SMS using GSM technology.

Keywords— Wireless Home Security, LCD Display, Mobile SMS alert.



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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]

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ABSTRACT

Autonomous agriculture robot is one of the promising solutions for precision agriculture. Equipment that requires less human effort and time with less cost of implementation is much required for success in agricultural industry. The project intends to develop a prototype of an autonomous agricultural robot that includes an automated guidance system. Microcontroller AT mega 8 used to intelligently monitor the robot. This paper presents the development and the performance of an autonomous seeder designed for broad acre crop cultivation. The seeder described is not only fully autonomous, but also delivers an extremely high precision in guiding the seeding tines to a predefined path. In addition, the seeder has force controlled steerable wheels which provide the necessary forces to ensure accurate path tracking. A novel feature is that the power center has been shifted from tractor centric to implement centric there by achieving a significant reduction in the size of the tractor. The tractor is therefore called the pilot vehicle, the primary of which is to provide smarter implement guidance rather than providing propulsion to entire system. This also helps reduce ground. The tractor generates a pilot the hitch point and a variety of other control efforts for the implement. The operation of the system relies on the implementation of a number of advanced control algorithms that contributes to accurate path tracking. The experimental results are presented at the conclusion of the paper.

Keywords: Agriculture, Micro-controllerAtmega8, robot, Steerable wheels, Motor, Relay.



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

A PROJECT REPORT

Submitted by

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

in partial fulfillment for the award of the degree

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ABSTRACT

Fingerprint authentication or recognition refers to the automated method of verifying a match between two human fingerprints. Fingerprints are one of many forms of biometrics used to identify individuals and verify their identity. The analysis of fingerprints for matching purposes generally requires the comparison of several features of the print pattern. The main objective of this project is to verify an individual person license id, RC Book details, Insurance details are verified by without hardcopy of individual person using finger print sensor. RFID based system used to verify the RC book details and insurance details and owner information and pollution level vehicle are monitored. Using this system we can easily monitor the theft vehicle, un-licensed person.

Key words: Arduino Uno, finger print sensor, RFID, keypad, LCE display.



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**AN IOT BASED CLOUD SYSTEM FOR TRAFFIC
MONITORING USING MOBILE SENSOR DATA
PROCESSING**

A PROJECT REPORT

Submitted by

NIVETHA T	(731616106050)
PRIYANKA SS	(731616106057)
SUMATHI R	(731616106072)
SURIYA E	(731616106073)

in partial fulfillment for the award of the degree

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NAMAKKAL DISTRICT, TAMIL NADU.**

ABSTRACT

The aim of our project the use of sensor networks in vehicle monitoring and traffic management, which are important in a smart city are discussed. This paper discusses the implementation of a unit which senses the present traffic density and uploads the information to a website, and also sends messages to the concerned people. Then the density of the traffic around traffic junctions is measured and information updated in the website with the help of node MCU. An Android app is developed so that all the required information is easily available. In the United States, every year, several people whose job takes them to the sides of roads, are injured or killed by roadside collisions. This could be avoided if a warning signal could be sent to them. In this system we describe a IOT based alerting system which detects and tracks the Heavy traffic. The system promptly sends a warning signal once a risk has been identified. The system runs on the Android smart phones, which are mounted on Vehicle or on roadside fixtures.

Keywords— Arduino Uno, Ultrasonic sensor, Node MCU,IOT, LCD.



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

A PROJECT REPORT

Submitted by

DINESH KRISHNA S	731616106019
GOWTHAM M	731616106024
LAKSHMANAN R	731616106035
LOGESH KUMAR K	731616106036

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION ENGINEERING



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ABSTRACT

India is an agricultural country and about seventy percent of our population depends on agriculture. One-third of our national income comes from agriculture. Due to increase in globalization and industrialization the crops gets affected and diseased due to various factors. Majority of the plant diseases are caused by pollution and as well as the attack of bacteria, fungi, virus . If proper care is not taken in this area, it may lead to serious effects on plants and adversely affects the productivity and quality. To detect, the plant diseases we need a fast automatic way. The main approaches adopted previously by meager farmers are like identification of plant diseases is naked eye observation through experts. The decision making capability of an expert also depends on his/her physical condition, such as fatigue and eye sight, work pressure, climate etc. So this method is time consuming and less efficient. Here, a project is proposed with an idea of detecting plant diseases using image processing. Image processing toolbox of MATLAB is used for measuring affected area of disease and to determine the difference in the color and various factors of the disease affected area. This concept can be extended to detect the symptoms of any type of plant diseases that is affected on different horticulture crops. The algorithm can be used to classify the leaves. The classified leaves into affected leaf and normal leaf. This classified result is send to user through a mobile application that has been previously installed in users mobile. By this user can easily get the details about his plants condition.

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ABSTRACT

Vehicle accident is the paramount threat for the people's life which causes a serious wound or even dead. The automotive companies have made lots of progress in alleviating this threat. But still the probability of detrimental effect due to accident is not reduced for this purpose we developed an accident detection-based hardware and application that deducts an accidental situation and sends emergency alert message and location details to the nearest police station and nearest hospital. We take part in safety of the human lives and it better to stop before it happens, so we used an alcohol sensor to detect whether the driver consumed alcohol or not. Alcohol sensor output is connected to the ignition system of the vehicle for ignition control. We also added the SOS button to give an alert message by clicking it. It can be used during the emergency situation.



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

A PROJECT REPORT

Submitted by

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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

TIRUCHENGODE-637 215

ANNA UNIVERSITY:: CHENNAI 600 025

SEPTEMBER :2020


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ABSTRACT

5G technology is emerging in India with our need for fastest means of communication. Even though providing a fastest means of network, it must also provide a multiband operation thus providing multiple input and multiple output. Hence MIMO concept is introduced to obtain these criteria. An antenna element that has not only the self-isolated property but also a compact size is proposed for the fifth-generation multiple-input and multiple-output (MIMO) system in mobile phone applications. The size reduction of the proposed antenna is done by introducing two vertical stubs into the original self-isolated antenna element. A very good isolation and antenna efficiency for an 8-antenna MIMO system can be obtained without using any additional isolation elements or decoupling techniques. Multiband frequency can be achieved by introducing slits and slots on the vertical stubs. An 8- antenna Multiple Input Multiple Output (MIMO) operating at the frequency range of 700MHz, 1800/1900 MHz, 2-4GHz, 24GHz, 28GHz and 40GHz bands for 5G smart phone applications is presented and prototype is simulated using Ansoft HFSS tool.

Keywords: 5G, Self-isolated antenna, MIMO, Multiband operation, slits and slots.



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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

1.3.2 Average percentage of courses that include experiential learning through project work / field work / internship during last five years.

B.E. - Mechanical Engineering

S. No.	Name of the Course	Course Code	Name of the students	Page No.
1.	Materials Science	PH8251	Sowndhar A Bharah V Prakash S Sanjeevi K.P	115
2.	Engineering Mechanics	GE8292	Parthasarathy R Prasanth R Rahul C Uthayakumar M	117
3.	Engineering Thermodynamics	ME8391	Gokul R Karole Infanto D Kesav Goutham N B Mageswaran A	119
4.	Fluid Mechanics and Machinery	CE8394	Prabhakaran M Surya R Vignesh B	121
5.	Manufacturing Technology - I	ME8351	Gunasekaran R Lakshmi Narayanan R Logesh S Madhankumar L	123
6.	Manufacturing Technology Laboratory - I	ME8361	Annamalai K Kirubakaran M Logesh N Mohan Arjun Kumaravel	125
7.	Computer Aided Machine Drawing	ME8381	Dhayanidhi M Hari Shankar P Gopinath G Govindasamy.A	127
8.	Kinematics of Machinery	ME8492	Bharath V Boopathi Raja E Boopathy K M Chandrasekar K	129
9.	Manufacturing Technology – II	ME8451	S. Arunkumar S. Balaji G. Bhagavathi Perumal K. Madesh	131

S. No.	Name of the Course	Course Code	Name of the students	Page No.
10.	Engineering Metallurgy	ME8491	Chellathurai T Manojkumar K balaji M Ethayakumar G	133
11.	Strength of Materials for Mechanical Engineers	CE8395	Sanjay kumar S.K Santhosh kumar V Thirumurugan V	135
12.	Thermal Engineering- I	ME8493	Gowtham P Hariharan M Hariharan S Prasanth S	137
13.	Thermal Engineering- II	ME8595	Gowtham P Hariharan M Hariharan S Prasanth S	139
14.	Dynamics of Machines	ME8594	J.Arun Prabakaran, K. Gokulnath, R. Karthick, R. Manikandan	141
15.	Renewable Energy Sources	ORO551	Nambiraj J Praveen R (07.01.1999) Ravichandran S Sabarish R	143
16.	Kinematics and Dynamics Laboratory	ME8511	Arshath S Aswinkumar S Deepak R Joshua Y	145
17.	Metrology and Measurements Laboratory	ME8513	Sakthivel R Saranraj S Shanmugamanivel D Surendhar J	147
18.	Computer Aided Design and Manufacturing	ME8691	Dhayanidhi M Gopinath G Govindasamy A Hari Shankar P	149
19.	Heat and Mass Transfer	ME8693	Gokulraj P Jayamurugan K S Kaleeswaran D Mohanakrishnan D	151
20.	Finite Element Analysis	ME8692	Aakash S Dhinakaran P Keerthivasan S Mohammed Nihal R Sureshkumar A Sureshmoorthy R Vinith D	153
21.	Hydraulics and Pneumatics	ME8694	Dhevendran E Inbarasan C Karthikeyan P Karthi S	155

S. No.	Name of the Course	Course Code	Name of the students	Page No.
			Boopathi Raja E Boopathy K M Chandrasekar K	
22.	Automobile Engineering	ME8091	Sathish G Thamotharan J Vijayaragavan P Vishnu A	157
23.	Mechatronics	ME6702	Nandha gobal S Ranjith R Sanjay kumar S Santhosh kumar B	159
24.	Robotics	ME6010	Nandha gobal S Ranjith R Sanjay kumar S Santhosh kumar B	161
25.	Simulation and Analysis Laboratory	ME6711	Aakash S Dhinakaran P Keerthivasan S Mohammed Nihal R Sureshkumar A Sureshmoorthy R Vinith D	163
26.	Professional Ethics in Engineering	GE8076	Navinkumar M Shakthi R.M Vasanthakumar P Yogesh T	165

DESIGN AND ANALYSIS OF COMPOSITE
MATERIAL USING GFRP IN PROPELLER
SHAFT

A PROJECT REPORT

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APRIL - 2020


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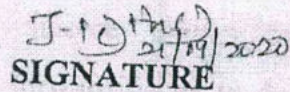
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BONAFIDE CERTIFICATE

I hereby certify that this project report "DESIGN & ANALYSIS OF COMPOSITE MATERIAL USING GFRP IN PROPELLER SHAFT" is the bonafide work of **POONDHAR A (731616114083), BARATH V (731616114303), PRASHANTH S (731616114307) and SANJEEVI KP (731616114077)** who completed the project work under my supervision.


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EXTERNAL EXAMINAR



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

A PROJECT REPORT

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C.RAHUL	731616114064
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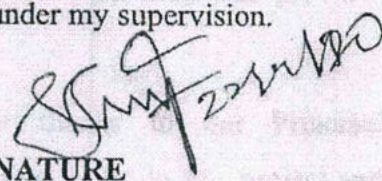
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Certified that this project report "DESIGN AND FABRICATION OF AUTOMATIC GROUNDNUT EXTRACTION MACHINE" is the bonafide work of PARTHASARATHY R (731616114055), PRASANTH R (731616114058), RAHUL C (731616114064), and UTHAYA KUMAR M (731616114088) who carried out the project work under my supervision.


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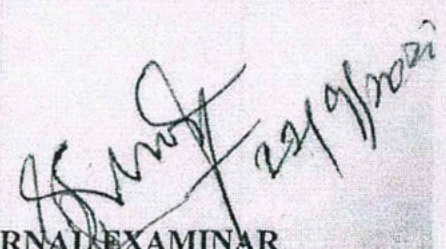

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**DESIGN AND ANALYSIS OF WASTE HEAT RECOVERY IN
DOMESTIC REFRIGERATION USING R134 a**

A PROJECT REPORT

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KESAV GOWTHAM. N.B.	731616114038
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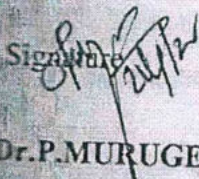
APRIL 2020

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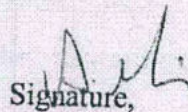
Certified that this project report "DESIGN AND ANALYSIS OF WASTE HEAT RECOVERY IN DOMESTIC REFRIGERATION USING R134 a" is the bonafide work of "GOKUL R, KAROLE INFANTO D, KESAV GOWTHAM N.B, MAGESWARAN A" who carried out the project work under my supervision.

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

A PROJECT REPORT

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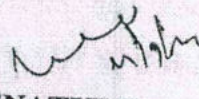
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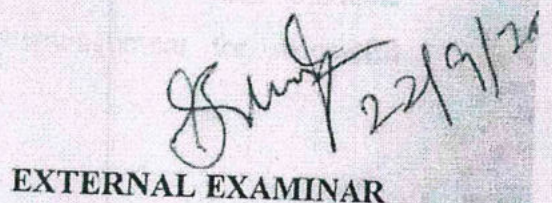
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**DESIGN AND FABRICATION OF AUTOMATIC
BOX PACKING MACHINE**

A PROJECT REPORT

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BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF AUTOMATIC BOX PACKING MACHINE" is the bonafide of GUNASEAKARAN R , LAKSHMI NARAYANAN R , LOGESH S , MADHANKUMAR L" who carried out the project work under my supervision.

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**DEVELOPMENT OF COCONUT DE-HUSKING
MACHINE**

A PROJECT REPORT

Submitted by

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N. LOGESH	731616114042
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SEPTEMBER 2020

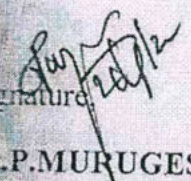

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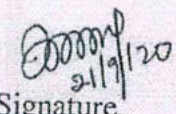
BONAFIDE CERTIFICATE

Certified that this project report "DEVELOPMENT OF COCONUT DE-HUSKING MACHINE" is the bonafide work of "ANNAMALAI K, KIRUBAKARAN M, LOGESH N, MOHAN ARJUN KUMARAVEL" who carried out the project work under my supervision.

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

A PROJECT REPORT

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Certified that this Project report "DESIGN AND DEVELOPMENT OF 3D FILAMENT EXTRUDER" is the bonafide work of DHAYANIDHI M, GOPINATH G, GOVINDASAMY A, HARI SHANKAR P who carried out the project work under my supervision.


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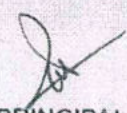

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DESIGN AND ANALYSIS OF PISTON COATED WITH CERAMIC MATERIALS

A PROJECT REPORT

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i


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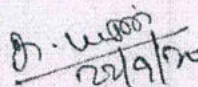
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Certified that this project report "DESIGN AND ANALYSIS OF PISTON COATED WITH CERAMIC MATERIALS" is the bonafide work of "BHARATH V, BOOPATHI RAJA E, BOOPATHY K M, CHANDRASEKAR K" who carried out the project work under my supervision.


SIGNATURE

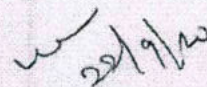
Dr. P. MURUGESAN M.E., Ph.D.,
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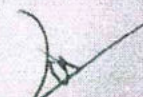

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INTERNAL EXAMINER


EXTERNAL EXAMINER


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K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
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**DESIGN AND FABRICATION OF
INTERIOR WALL PAINTING ROBOT**

A PROJECT REPORT

Submitted by

ARUNKUMAR S	731617114005
BALAJI S	731617114010
BHAGAVATHI PERUMAL G	731617114011
MADESH K	731617114053

in partial fulfillment for the award of the degree

Of

BACHELOR of ENGINEERING

IN

MECHANICAL ENGINEERING

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APRIL - 2020


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BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF INTERIOR WALL PAINTING ROBOT" is the bonafide work of "ARUNKUMAR S, BALAJIS, BHAGAVATHI PERUMAL G, and MADESH K who carried out the project work under my supervision.


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INTERNAL EXAMINER


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

A PROJECT REPORT

Submitted by

CHELLATHURAI T	731616114010
MANOJ KUMAR K	731616114047
BALAJI M	731616114302
EDHAYAKUMAR G	731616114304

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Certified that this project report "DESIGN AND ANALYSIS OF CONNECTING ROD USING DIFFERENT ALLOY MATERIAL" is the bonafide work of SELLATHURAI T (731616114010), MANOJ KUMAR K (731616114047), BALAJI M (7316114302), EDHAYAKUMAR G (731616114304), who carried out the project work under my supervision.


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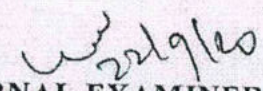
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Submitted for the Project report Viva-Voce Examination held on 22.09.20


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

A PROJECT REPORT

Submitted by

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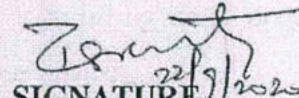
ANNA UNIVERSITY :: CHENNAI- 600025

BONAFIDE CERTIFICATE

Certified that this project report "TRIBOLOGICAL AND MICROSTRUCTURAL ANALYSIS OF ALUMINIUM (LM6) REINFORCED WITH ALUMINA AND SILICON CARBIDE MICRO PARTICLES" is the bonafide work of SANJAYKUMAR S K (731616114076), SANTHOSHKUMAR V (731616114078), THIRUMURUGAN V (731616114087) who carried out the project work under supervision.


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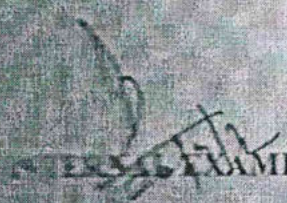
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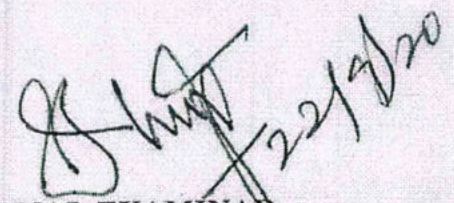
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 22/9/2020

EXTERNAL EXAMINAR

EXTERNAL EXAMINAR

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

A PROJECT REPORT

Submitted by

P.GOWTHAM	731616114020
M.HARIHARAN	731616114022
S.HARIHARAN	731616114023
S.PRASANTH	731616114308

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in


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BONAFIDE CERTIFICATE

Certified that this project report "EXTRACTION OF FUEL FROM WASTE PLASTIC USING PYROLYSIS PROCESS" is the bonafide work of -GOWTHAM.P(731616114020),HARIHARAN.M(731616114022), HARIHARAN.S(731616114023),PRASANTA.S(731616114308)"who carried out the project work under my supervision.


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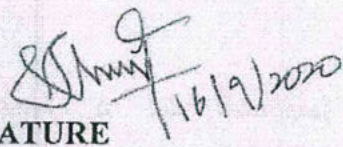
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INTERNAL EXAMINER


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

A PROJECT REPORT

Submitted by

P.GOWTHAM	731616114020
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S.HARIHARAN	731616114023
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BONAFIDE CERTIFICATE

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**DESIGN AND FABRICATION OF GARLIC PEELING
MACHINE**

A PROJECT REPORT

Submitted by

ARUN PRABAKARAN J	731617114007
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KARTHICK R	731617114040
MANIKANDAN R	731617114054

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Of

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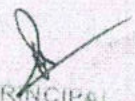
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NAMAKKAL DISTRICT, TAMIL NADU

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF GARLIC PEELING MACHINE" is the bonafide work of "ARUNPRABAKARAN J, GOKULNATH K, KARTHICK R and MANIKANDAN R who carried out the project work under my supervision.



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

A PROJECT REPORT

Submitted by

NAMBIRAJ J	731616114052
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NAMAKKAL DT. TAMIL NADU.

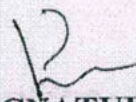
ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

It is certified that this project report "DESIGN AND PERFORMANCE ANALYSIS OF PHEV ELECTRIC VEHICLE (PORSCHE HYBRID ELECTRIC TWO-WHEELER)" is the bonafide work of "NAMBIRAJ J, PRAVEEN RAJAVICHANDRAN S, and SABARISH R who carried out the project work under the supervision.



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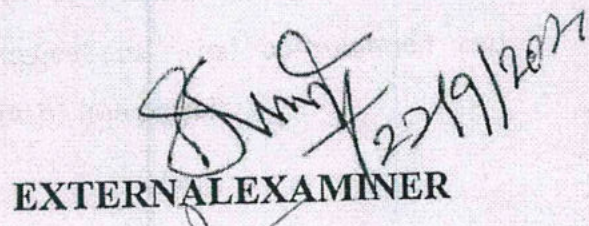


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**DESIGN AND ANALYSIS OF AUTOMATIC
STRETCHER CUM WHEEL CHAIR WITH LIFTING
AND SHIFTING MECHANISM FOR DISABLED
PERSON**

A PROJECT REPORT

Submitted by

ARSHATH S	731616114004
ASWINKUMAR S	731616114005
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BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND ANALYSIS OF AUTOMATIC STRETCHER CUM WHEEL CHAIR WITH LIFTING AND SHIFTING MECHANISM FOR DISABLED PERSON" is the bonafide work of "ARSHATHS (731616114004), ASWINKUMAR S (731616114005), DEEPAK R (731616114011), JOSHUA Y (731616114031)" who carried out the project work under my supervision.

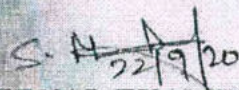

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NAMAKKAL Dt. TAMIL NADU.

**EXPERIMENTAL INVESTIGATION & MECHANICAL
PROPERTIES ANALYSIS OF ALUMINIUM METAL
MATRIX ON TiB₂ & Gr REINFORCED COMPOSITES**

A PROJECT REPORT

Submitted by

R SAKTHIVEL	731616114074
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Certified that this project report "EXPERIMENTAL INVESTIGATION AND MECHANICAL PROPERTIES ANALYSIS OF ALUMINIUM METAL MATRIX ON TiB₂ & Gr REINFORCED COMPOSITES" is the bonafide work of SAKTHIVEL R (731616114074), SARANRAJ S (731616114080), SHANMUGAMANIVEL D (731616114310), SURENDRAR J (731616114311) who carried out the project work under my supervision.


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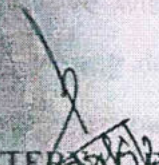
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Submitted for the Project report Viva-voce examination held on 22.9.20


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

A PROJECT REPORT

Submitted by

DHAYANIDHI M	731616114012
GOPINATH G	731616114018
GOVINDASAMY A	731616114019
HARI SHANKAR P	731616114024

in partial fulfillment for the award of the degree

of

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SEPTEMBER 2020



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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this Project report "DESIGN AND DEVELOPMENT OF 3D FILAMENT EXTRUDER" is the bonafide work of DHAYANIDHI M, GOPINATH G, GOVINDASAMY A, HARI SHANKAR P who carried out the project work under my supervision.


SIGNATURE

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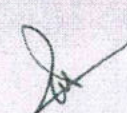

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**HEAT TRANSFER AND FRICTION FACTOR
CHARACTERISTICS OF VARIENT TWISTED TAPE
FITTED IN A DOUBLE PIPE HEAT EXCHANGER**

A PROJECT REPORT

Submitted by

GOKULRAJ P	731616114017
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of

BACHELOR OF ENGINEERING

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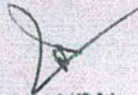
MECHANICAL ENGINEERING

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE - 637 215

ANNA UNIVERSITY :: CHENNAI 600 025


SEPTEMBER 2020


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TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "HEAT TRANSFER AND FRICTION CHARACTERISTICS OF VARIENT TWSITED TAPE FITTED IN A DOUBLE PIPE HEAT EXCHANGER" is bonafide work of "GOKULRAJ P, JAYAMURUGAN K S, KALEESWARAN D, MOHANAKRISHNAN D" who carried out the project under my supervision.


SIGNATURE

Dr. P. MURUGESAN, M.E, Ph.D.,
HEAD OF THE DEPARTMENT,
Professor,

Department of Mechanical Engineering,
KSR Institute for Engineering and
Technology,

Tiruchengode - 637 215


SIGNATURE

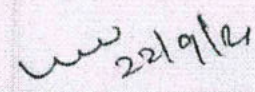
Mr. R. VASANTHAKUMAR, M.E.,
SUPERVISOR,
Assistant Professor,

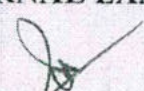
Department of Mechanical Engineering,
KSR Institute for Engineering and
Technology,

Tiruchengode - 637 215

Submitted for the Project report 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.

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

A PROJECT REPORT

Submitted by

AAKASH.S	731616114001
DHINAKARAN.P	731616114014
KEERTHIVASAN.S	731616114037
MOHAMMED NIHAL.R	731616114048

in partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

in

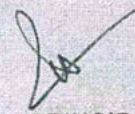
MECHANICAL ENGINEERING

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE – 637215

ANNA UNIVERSITY:: CHENNAI 600 025

SEPTEMBER 2020



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

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND ANALYSIS OF DIFFERENT INSULATION MATERIAL IN FLATE PLATE SOLAR AIR DRYER" is the bonafide work of "AAKASH.S (731616114001), DHINAKARAN.P (731616114014), KEERTHIVASAN.S (731616114037), MOHAMMED NIHAL.R (731616114048)" who carried out the project work under my supervision.


SIGNATURE

Dr. P. MURUGESHAN. M.E., Ph.D.
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Professor & Head,
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Mr. S. MOHANAVELAN. M.E.
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Submitted for the project work Viva-voce held on 22.09.20


INTERNAL EXAMINER


EXTERNAL EXAMINER


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

**BANANA LEAF CUTTING MACHINE USING
HYDRAULIC POWER PACK**

A PROJECT REPORT

Submitted by

E.DHEVENDRAN	731616114013
C.INBARASAN	731616114025
P.KARTHIKEYAN	731616114034
S.KARTHI	731616114306

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.

ANNAUNIVERSITY::CHENNAI 600 025

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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "BANANA LEAF CUTTING MACHINE USING HYDRAULIC POWER PACK" is the bonafide work of "DHEVENDRAN E, INBARASAN C, KARTHIKEYAN P, KARTHI S" who carried out the project work under my supervision.

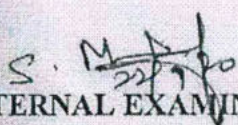

SIGNATURE,

Dr.P.MURUGESAN, M.E., Ph.D.,
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Submitted for the Project report Viva-Vice Examination held on 22.09.20


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

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

A PROJECT REPORT

Submitted by

G SATHISH	731616114081
J THAMOTHARAN	731616114086
P VIJAYARAGAVAN	731616114095
A VISHNU	731616114097

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

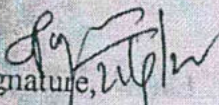


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ANNA UNIVERSITY:: CHENNAI 600025

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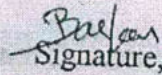
Certified that this project report "DESIGN AND ANALYSIS OF AUTOMOBILE LEAF SPRING FOR VARIOUS CROSS SECTIONS BY USING DIFFERENT COMPOSITE MATERIALS" is the bonafide work of G SATHISH (731616114081), J THOMOTHARAN (731616114086), P VIJAYARAGAVAN (731616114095), A VISHNU (731616114097) who carried out the project work under my supervision.


Signature,

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Submitted for the Project report Viva-Voce Examination held on 22.9.20


INTERNAL EXAMINAR


EXTERNAL EXAMINAR

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TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

**DESIGN AND ANALYSIS OF AUTOMATIC
SLICING TENDER COCONUT**

A PROJECT REPORT

Submitted by

RANDHAGOBAL

731616114053

PRANITH

731616114066

RANJAY KUMAR

731616114075

RANTHOSHKUMAR

731616114077

In partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN


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K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,

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NAMAKKAL DI. TAMIL NADU.

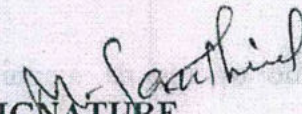
ANNA UNIVERSITY:: CHENNAI- 600025

BONAFIDE CERTIFICATE

That this project report "DESIGN AND FABRICATION OF AUTOMATIC SLICING TENDER COCONUT" is the bonafide work of **ANDHAGOBAL S (731616114053), RANJITH R (731616114066), ANJAY KUMAR S (731616114075) and SANTHOSHKUMAR B (731616114077)** who carried out the project work under my supervision.


SIGNATURE


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Professor,
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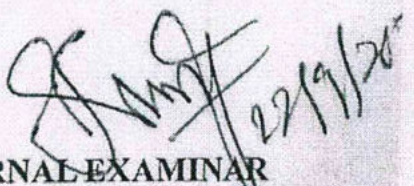

SIGNATURE

Mr. M. SAKTHIVEL, M.E.,
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Submitted for the Project report Viva-Voice Examination held on

22/9/20


INTERNAL EXAMINAR


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K. S. R. INSTITUTE FOR
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TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

**DESIGN AND ANALYSIS OF AUTOMATIC
SLICING TENDER COCONUT**

A PROJECT REPORT

Submitted by

S.NANDHAGOBAL	731616114053
R.RANJITH	731616114066
S.SANJAY KUMAR	731616114075
B.SANTHOSHKUMAR	731616114077

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TIRUCHENGOGE - 637215.

ANNA UNIVERSITY:: CHENNAI- 600025

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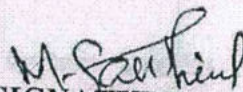
ANNA UNIVERSITY:: CHENNAI-600025

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Certified that this project report "DESIGN AND FABRICATION OF AUTOMATIC SLICING TENDER COCONUT" is the bonafide work of NANDHAGOBAL S (731616114053), RANJITH R (731616114066), SANJAY KUMAR S (731616114075) and SANTHOSHKUMAR B (731616114077) who carried out the project work under my supervision.


SIGNATURE

Dr.P.MURUGESAN, M.E., Ph.D.,
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K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

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

A PROJECT REPORT

Submitted by

AAKASH.S	731616114001
DHINAKARAN.P	731616114014
KEERTHIVASAN.S	731616114037
MOHAMMED NIHAL.R	731616114048

in partial fulfilment for the award of the degree

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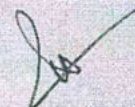
MECHANICAL ENGINEERING

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SEPTEMBER 2020



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


BONAFIDE CERTIFICATE

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SIGNATURE

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

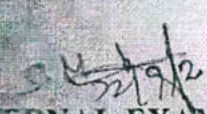
Professor & Head,
Mechanical Engineering,
KSR Institute for Engineering
and Technology,
Tiruchengode-637 215.


SIGNATURE

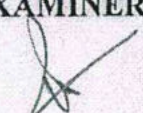
Mr. S.MOHANA VELAN. M.E.
SUPERVISOR

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KSR Institute for Engineering
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Tiruchengode-637 215.

Submitted for the project work Viva-voce held on 22.09.20


INTERNAL EXAMINER


EXTERNAL EXAMINER


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

**DESIGN AND IMPLEMENTATION OF
BOREWELL RESCUE SYSTEM**

A PROJECT REPORT

Submitted by

M. NAVIN KUMAR	731616114054
R. M. SHAKTHI	731616114082
P. VASANTHA KUMAR	731616114090
T. YOGESH	731616114100

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.

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APRIL - 2020



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

1

ANNA UNIVERSITY:: CHENNAI-600025

BONAFIDE CERTIFICATE

Confirmed that this project report "DESIGN AND IMPLEMENTATION OF BOREWELL RESCUE SYSTEM" is the bonafide work of NAVIN KUMAR M (731616114054), SHAKTHI R M (731616114082), ANSANTHA KUMAR P (731616114090) and YOGESH T (731616114100) who carried out the project work under my supervision.


SIGNATURE


P. MURUGESAN, M.E., Ph.D.,
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PROFESSOR,
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SIGNATURE

Mr. M. V. SHANMUGAM, M.E.,
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Submitted for the Project report Viva-Voice Examination held on 22/9/20


EXTERNAL EXAMINAR


EXTERNAL EXAMINAR

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



1.3.2 Average percentage of courses that include experiential learning through project work / field work / internship during last five years

B.Tech. – Information Technology

S. No.	Name of the Course	Course Code	Name of the students	Page No.
1.	Information Technology Essentials	IT8201	Dhivyashruthi S	169
2.	Information Technology Essentials Laboratory	IT8211		
3.	Data Structures	CS8391	Kavyadevi V	170
4.	Data Structures Laboratory	CS8381	Ramyabharathi M	
5.	Object Oriented Programming	CS8392	Rajeswari K	172
6.	Object Oriented Programming Language	CS8383	Reshma G	
7.	Database Management Systems	CS8492	Priyadharshini M Srimathi E	174
8.	Database Management Systems Laboratory	CS8481		
9.	Operating Systems	CS8493	Gowsika R	176
10.	Operating Systems Laboratory	CS8461	Kamali R	
11.	Web Technology	IT8501	Manikandan A	178
12.	Web Technology Laboratory	IT8511	Jessica Collins J P	
13.	Software Engineering	CS8494	Joshua Daniel B Naveen Kumar G Nirmalkumar G Sriram S	180
14.	Object Oriented Analysis and Design	CS8592	Dinesh Kumar P Gokulan S	181
15.	Object Oriented Analysis and Design Laboratory	CS8582	Ragu G Thaneeswaran Y G	
16.	Mobile Communication	IT8602	Arulmozhi M	182
17.	Mobile Application Development Laboratory	CS8662	Pavithra S Shivani N	
18.	Big Data Analytics	CS8091	Nandhini S Selvamalar P Shailaa P M	185
19.	Software Testing	IT8076	Sivasankari R Vinothini R	186
20.	Mini Project	IT8611	Babu U S Venkateswaran S Saran V Lakshmanan R	187

S. No.	Name of the Course	Course Code	Name of the students	Page No.
21.	Cryptography and Network Security	CS6701	Boopalan G Hakkem M	188
22.	Security Laboratory	IT6712	Oviya A Vignesh M	
23.	Data Warehouse and Data Mining	IT6702	Aravindh K	189
24.	Data Mining Laboratory	IT6711	Janani T Shugitha V S Sumitha J	
25.	Grid and Cloud Computing	CS6703	Mohanraj S Priyadharshini G	190
26.	Grid and Cloud Computing Laboratory	IT6713	Steephen V Stephenraj J	
27.	Project Work	IT6811	Ahamed Faishal H Sudarsan S Vinoth M Viji V	191

CERTIFICATE OF COMPLETION

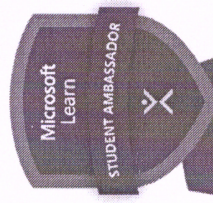
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TIRUJENKODE-637 215,
TAMAKKAL DI, TAMIL NADU.

S.No 510




Certificate of Participant

That is to certify that KAVYADEVI V (731618205012) student of B.Tech (IT) in KSR Institute For Engineering And Technology, has successfully completed in Inplant Training in Python from the period 25-Nov-2019 to 29-Nov-2019.

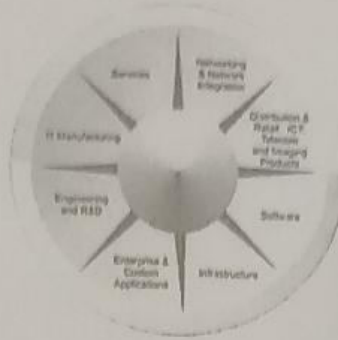
Nanavel A
Trainer Signature

Date of Issue : 29.11.2019

TECHWORK


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ENGINEERING AND TECHNOLOGY,
K. S. R. INSTITUTE FOR
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TIRUCHENGODE - 637 219,
NAMAKKAL DISTRICT, TAMIL NADU.

S.No. 511



Certificate of Participant

That is to certify that M.RAMYABHARATHI (731618205017) student of B.Tech (IT) in KSR Institute For Engineering And Technology, has successfully completed in Inplant Training in Python from the period 25-Nov-2019 to 29-Nov-2019.

Nanavel A
Trainer Signature

Date of Issue : 29.11.2019

TECHWORK

[Signature]
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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जीएसटी रोड, मीनंबाक्कम, / GST ROAD, MEENAMBAKKAM,
चेन्नै-600 016. / CHENNAI-600 016.

प्रमाण पत्र / CERTIFICATE

This is to certify that Mr/Ms. RAJESWARI K

II Year B.Tech (IT)

studying in

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE has undergone training

in Implant Training on IOT field at RGM TTC

from 28/11/2019 to 29/11/2019 for One week(s).

स्थान / Place चेन्नै / Chennai

तारीख / Date 28/11/2019

सहायक महाप्रबंधक (प्रशासन)
Asst. General Manager (Admin.)

आरजीएम टीटीसी, चेन्नै - 16
RGM TTC, Chennai - 16.

PRINCIPAL,
K. S. R. INSTITUTE FOR
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K. S. R. KALAI NAGAR,
TIRUCHENGODE - 637 215,
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RAJIV GANDHI MEMORIAL TELECOM TRAINING CENTRE
जीएसटी रोड, मीनंबाक्कम, / GST ROAD, MEENAMBAKKAM,
चेन्नै - 600 016. / CHENNAI - 600 016.

प्रमाण पत्र / CERTIFICATE

This is to certify that Mr/Ms. RESHMA G.

(I Year, B. Tech (IT))

studying in

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE has undergone training

in Implant Training on IOT

held at RGM TTC

from 25/11/2019 to 29/11/2019 for One week(s).

स्थान / Place चेन्नै / Chennai

तारीख / Date 29/11/2019

सहायक महाप्रबंधक (प्रशासन)
Asst. General Manager (Admn.)

आरजीएम टीटीसी, चेन्नै - 16
RGM TTC, Chennai - 16.

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चेन्नै - 600 016. / CHENNAI-600 016.

प्रमाण पत्र / CERTIFICATE

This is to certify that Mr/Ms. PRIYADHARSINI M

II Year B.Tech (IT)

studying in

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE has undergone training

in Inplant Training on IDT

field at RGM TTC

from 26/11/2019 to 29/11/2019 for One week(s).

स्थान / Place : चेन्नै / Chennai

तारीख / Date : 29/11/2019

सहायक महाप्रबंधक (प्रशासन)
Asst General Manager (Admin)

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RGM TTC, Chennai - 16.

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K. S. R. INSTITUTE FOR
TIRUCHENGODE - 637 215,
NAMAKKAL Dt, TAMIL NADU.



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चेन्नै - 600 016. / CHENNAI - 600 016.

प्रमाण पत्र / CERTIFICATE

This is to certify that Mr/Ms. SRIMATHIE

II Year, B Tech (IT)

studying in

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE has undergone training

in Inplant Training on IOT

field at RGM TTC

from 25/11/2019 to 29/11/2019 for One week(s).

स्थान / Place : चेन्नै / Chennai

तारीख / Date : 29/11/2019

सहायक महाप्रबंधक (प्रशासन)
Asst. General Manager (Admn.)

आरजीएम टीटीसी, चेन्नै - 16
RGM TTC, Chennai - 16.

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TIRUCHENGODE - 637 203,
NAMAKKAL DL, TAMIL NADU.



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जीएसटी रोड, मीनंबाक्कम, / GST ROAD, MEENAMBAKKAM,
चेन्नै - 600 016. / CHENNAI-600 016.

प्रमाण पत्र / CERTIFICATE

This is to certify that Mr/Ms. GOWSIKA R

II Year, B Tech (IT)

studying in

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE has undergone training

in Inplant Training on IOT

held at RGM TTC

from 25/11/2019 to 29/11/2019 for One week(s).

स्थान / Place : चेन्नै / Chennai

तारीख / Date : 29/11/2019

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K. S. R. KALYAN
TIRUCHENGODE - 612 015,
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सहायक महाप्रबंधक (प्रशासन)
Asst. General Manager (Admn.)

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RGM TTC, Chennai - 16.



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चेन्नै - 600 016. / CHENNAI-600 016.

प्रमाण पत्र / CERTIFICATE

This is to certify that Mr/Ms. KAMALI R

II Year, B Tech (IT)

studying in

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE

has undergone training

in Inplant Training on IOT

field at RGM TTC

from 25/11/2019 to 29/11/2019 for One week(s).

स्थान / Place : चेन्नै / Chennai

तारीख / Date : 29/11/2019

सहायक महाप्रबंधक (प्रशासन)
Asst. General Manager (Admin.)

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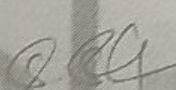
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from 3-6-19 to 7-6-19 in our company located at coimbatore.



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TIRUCHENGODE - 637 215,
NAMAKKAL DI, TAMIL NADU.

ANNA UNIVERSITY : CHENNAI 600 025

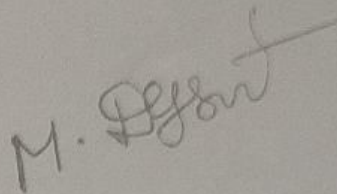
BONAFIDE CERTIFICATE

Certified that this project report "LIBRARY MANAGEMENT SYSTEM " is the bonafide work of "JOSHUA DANIEL B NAVEEN KUMAR G, NIRMAL KUMAR G and SRI RAM S" who carried out the project work under my supervision.



SIGNATURE

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



SIGNATURE

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

Submitted for the Project Viva-Voce examination held on _____

Internal Examiner



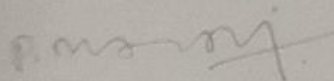
External Examiner

Stamp: ENGINEERING DEPARTMENT, TIRU...
Stamp: KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY

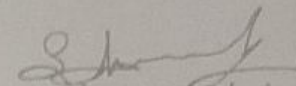
ANNA UNIVERSITY: CHENNAI 600 025

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 18/10/2020

Internal Examiner


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

External Examiner



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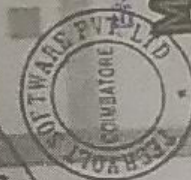
CERTIFICATE OF INTERNSHIP

This is to certify that Mr/Ms Arulmozhi 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.



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This is to certify that Mr/Ms Pavithra S, 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.

[Handwritten signature]
HR



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COIMBATORE

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This is to certify that Mr/Ms Shivani N B Tech (IT) Student of KSB Institute For Engg and Tech have been associated towards his/her Internship on Android from 12/06/2019 to 14/06/2019 in our company located at coimbatore.


HR



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Mob: 84399 983 975 www.techvoltsoftware.com

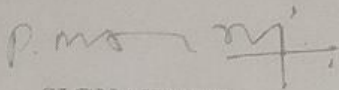
Office Centre, 2nd Floor, Above City Union Bank, Feroz Agha Malal Rd, Salbaba Colony, Coimbatore, Tamil Nadu 64101

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

M2 PRO

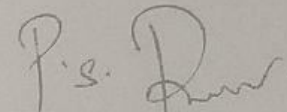
BONAFIDE CERTIFICATE

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

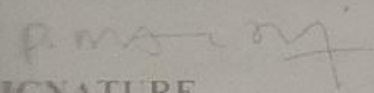
External Examiner



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ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
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.R and VINOTHIN.R**" who carried out the project work under my supervision.


SIGNATURE

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

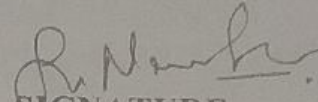
HEAD OF THE DEPARTMENT

PROFESSOR

DEPARTMENT OF IT

KSR IET

TIRUCHENGODE - 637215


SIGNATURE

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

SUPERVISOR

ASSISTANT PROFESSOR

DEPARTMENT OF IT

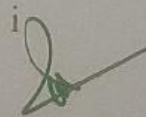
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TIRUCHENGODE - 637215

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

INTERNAL EXAMINER

EXTERNAL EXAMINER

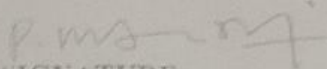


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TIRUCHENGODE - 637 215,
NAMAKKAL Dt, TAMIL NADU.

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

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

INTERNAL EXAMINER

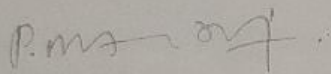
EXTERNAL EXAMINER

i


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

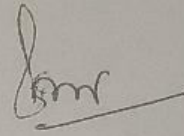
BONAFIDE CERTIFICATE

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.



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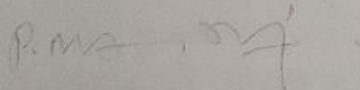
Dr. P. MEENAKSHI DEVI
HEAD OF THE DEPARTMENT
INFORMATION TECHNOLOGY,
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AND TECHNOLOGY-637215.



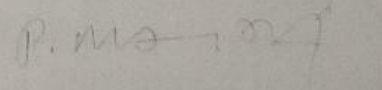
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Dr.S. RUSSIA
SUPERVISOR
PROFESSOR
DEPARTMENT OF
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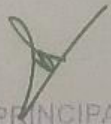
Submitted for the Project Viva-Voce examination held on 22.9.2020



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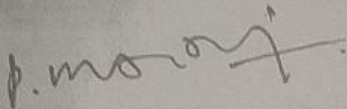


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TIRUCHENGODE-637 215,
NAMAKKAL Dt, TAMIL NADU.

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "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.



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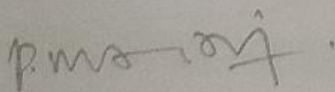
Dr. P. MEENAKSHI DEVI
HEAD OF THE DEPARTMENT
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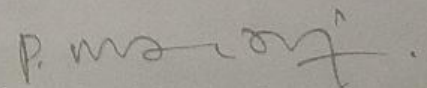
SIGNATURE

Mr.L.DEEPAN PRABHU,
SUPERVISOR
ASSISTANT PROFESSOR
DEPARTMENT OF
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AND TECHNOLOGY-637215.


Submitted for the Project Viva-Voce examination held on 22.9.2020



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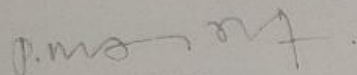
External Examiner



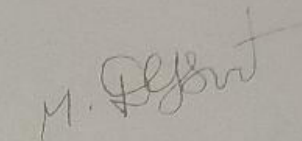
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TIRUCHENGODE - 637 215,
NAMAKKAL DL, TAMIL NADU.

BONAFIDE CERTIFICATE

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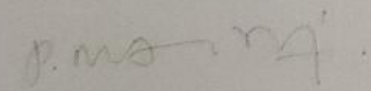

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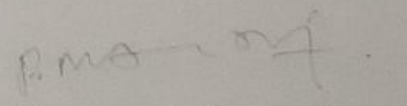
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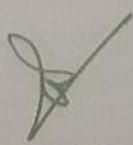

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BONAFIDE CERTIFICATE

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.



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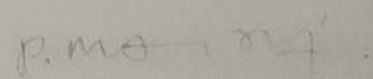
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