



# **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**

**Academic Year : 2015 – 2016**

| <b>S. No.</b> | <b>Details</b>  | <b>Page No.</b> |
|---------------|---|-----------------|
| 1.            | Department of Computer Science and Engineering          | 2-28            |
| 2.            | Department of Electrical and Electronics Engineering    | 29-57           |
| 3.            | Department of Electronics and Communication Engineering | 58-120          |
| 4.            | Department of Mechanical Engineering                    | 121-150         |
| 5.            | Department of Information Technology                    | 151-161         |



# K S R Institute for Engineering and Technology

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

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

| S. No. | Name of the Course                     | Course Code | Name of the students   | Page No. |
|--------|--|-------------|--|----------|
| 1.     | Database Management Systems            | CS6302      | Mohamed Mustaq Ali A<br>Navaneethan S<br>Shobanprakash R<br>Vinoth M | 4        |
| 2.     | Database Management Systems Laboratory | CS6312      | Jayaprakash V<br>Lavanya T<br>Poornima S<br>Nandhini P               | 6        |
| 3.     | Mobile and Pervasive Computing         | CS2402      | Sumathi P<br>Myvizhi A<br>Kalaivani R<br>Shanmugapriya P             | 8        |
| 4.     | Data Warehousing and Data Mining       | CS2032      | Kesavan R<br>Krishnakumar S<br>Lingaraj S<br>Tamilarasan K           | 10       |
| 5.     | Internet programming                   | CS6501      | Akshaya MA<br>Aravind L<br>Brindha J<br>Kadhambari R                 | 12-17    |
| 6.     | Internet programming Laboratory        | CS6512      | Kannan M<br>Keerthana M  |          |
| 7.     | Design and Analysis of Algorithms      | CS6402      | Dhivya K<br>Sakthivenkatesh M<br>Umarajeshwari A<br>Yamuna K         | 18       |
| 8.     | Software Engineering                   | CS6403      | Dhivya Bharathi P<br>Raghavi T<br>Deve M                             | 20       |
| 9.     | Mobile Computing                       | IT6601      | Kishor Kumar A<br>Menaga R<br>Menaga V<br>Nivetha B                  | 21       |
| 10.    | Artificial Intelligence                | CS6659      | Prasath S<br>Sabiya S<br>Veeravignesh K R<br>Vigneshwaran S          | 23       |



| <b>S. No.</b> | <b>Name of the Course</b>                 | <b>Course Code</b> | <b>Name of the students</b>   | <b>Page No.</b> |
|---------------|---|--------------------|---|-----------------|
| 11.           | Data Warehousing and Data Mining          | IT6702             | Aravind R<br>Arjun M<br>Dharun Prabhakaran K<br>K<br>Muthukumaran M | 25              |
| 12.           | Mobile Application Development Laboratory | CS6611             | Monisha V   | 26              |
| 13.           | Information Security                      | IT2042             | Arulgnanasundari B<br>Revathi T<br>Roshini S<br>Sai Praveen V       | 27              |



**EROTRANSPOT: A SMART  
TRAVEL GUIDE**



**A PROJECT REPORT**

*Submitted by*

**MOHAMED MUSTHAQ ALI A (731612104029)**

**NAVANEETHAN S (731612104035)**

**SHOBAN PRAKASH R (731612104049)**

**VINOTH M (731612104062)**

*in partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**COMPUTER SCIENCE AND ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**TIRUCHENGODE-637 215**

**ANNA UNIVERSITY:: CHENNAI 600 025**

**APRIL 2016**

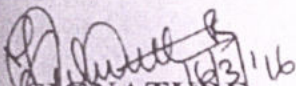


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NAMAKKAL DL, TAMIL NADU.**

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BONAFIDE CERTIFICATE

Certified that this project report titled "EROTRANSPOT: A SMART TRAVEL GUIDE" is the bonafide work of "MOHAMED MUSTHAQ ALI A (731612104029), NAVANEETHAN S (731612104035), SHOBAN PRAKASH R (731612104049), VINOTH M (731612104062)" who carried out the project work under my supervision.

  
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PROFESSOR & HEAD

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SUPERVISOR

Mr. Ms. L. PRIYANKA DEVI

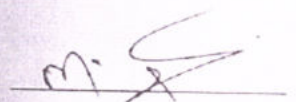
ASSISTANT PROFESSOR

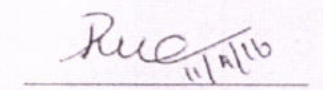
Department of Computer Science  
and Engineering

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Tiruchengode – 637 215

Submitted for the Project Viva – Voce Examination held on 11/4/16

  
Internal Examiner

  
External Examiner

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USER ACTIVITY TRACKING  
AND LAB MONITORING



A PROJECT REPORT

*Submitted by*

JAYAPRAKASH.V (731612104014)

LAVANYA.T (731612104023)

POORNIMA.S (731612104038)

NANDHINI.P (731612104301)

*in partial fulfilment for the award of the degree*

*of*

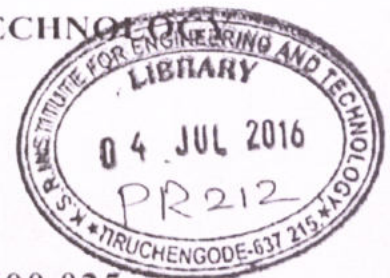
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TIRUCHENGODE-637 215



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Certified that this project report "USER ACTIVITY TRACKING AND LAB MONITORING" is the bonafide work of "JAYAPRAKASH.V (731612104014), LAVANYA.T (731612104023), POORNIMA.S (731612104038) and NANDHINLP (731612104301)" who carried out the project work under my supervision.

  
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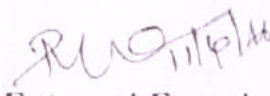
  
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VOICE CALL AND CHAT  
APPLICATION FOR NORMAL  
AND DISABILITY PEOPLE



A PROJECT REPORT

*Submitted by*

SUMATHI P (731612104053)  
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KALAIVANI R (731612104017)  
SHANMUGA PRIYA P (731612104048)

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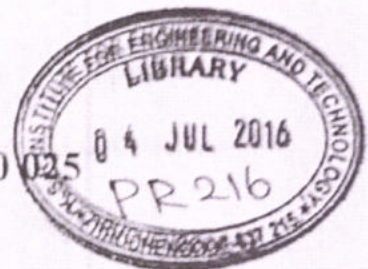
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APRIL 2016

  
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Certified that this project report titled "VOICE CALL AND CHAT APPLICATION FOR NORMAL AND DISABILITY PEOPLE" is the bonafide work of SUMATHI P (731612104053), MYVIZHI A (731612104034), KALAIVANI R (731612104017), SHANMUGA PRIYA P (731612104048) have carried out the project work under my supervision.

  
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**PROFESSOR**

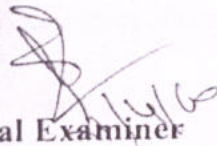
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Tiruchengode-637 215

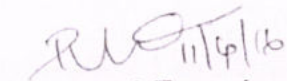
  
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**NAMAKKAL Dt, TAMIL NADU.**



**GENOMIC SOFTWARE METHODOLOGY  
FOR RECORD DEDUPLICATION**



**A PROJECT REPORT**

*Submitted by*

KESAVAN. R (731612104020)  
KRISHNA KUMAR. S (731612104022)  
LINGARAJ. S (731612104024)  
TAMILARASAN. K (731612104055)

*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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**APRIL 2016**



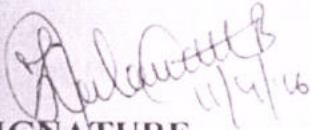
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BONAFIDE CERTIFICATE

Certified that this project report "GENOMIC SOFTWARE METHODOLOGY FOR RECORD DEDUPLICATION" is the bonafide work of R.KESAVAN (731612104020), S.KRISHNAKUMAR (731612104022), S.LINGARAJ (731612401024), K.TAMILARASAN (731612104055) who carried out the project work under my supervision.



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Tiruchengode – 637 215

Submitted for the university project viva-vojee Examination held on 11-04-2016



Internal Examiner



External Examiner

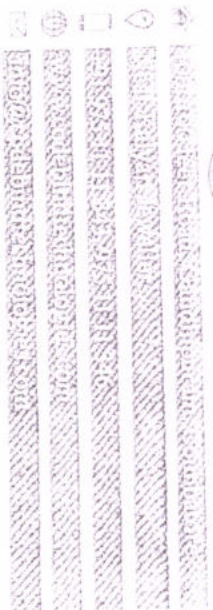


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### CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CRTIP628110316 016

This certificate is awarded to Akshay .D

who has undergone Implant Training in SERVER SIDE SCRIPTING

from 17.12.15 to 25.12.15. During the course of training

period, the conduct of the trainee was found to be Good.

*M. Ravu*  
Training Facilitator

*[Signature]*  
Issuing Authority

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Head Office: 107, Gnan Road, TN Nagar, Chennai

☎ 91 9789 617 617

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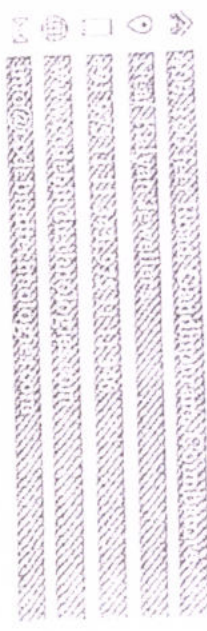
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IAS-AHIZ

### CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

**IBT10c28110314 0614**

This certificate is awarded to AROVIND . I who has undergone Implant Training in SERVER SIDE SCRIPTING from 17.12.15 to 23.12.15. During the course of training period, the conduct of the trainee was found to be Good.

*M. Ravi*  
Training Facilitator

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### CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CERTPE 35110316 0 515

This certificate is awarded to BRINDU . J who has undergone Implant Training in SERVER SIDE SCRIPTING from 17.12.15 to 23.12.15. During the course of training period, the conduct of the trainee was found to be Good.

*M. Ravi*  
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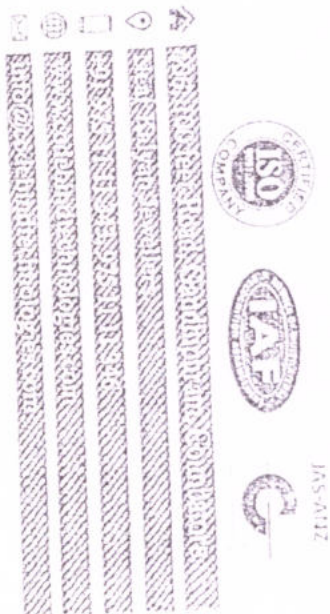
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IMS-0112

### CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CGTIPC 28110316 0612

This certificate is awarded to KADHARAN.R  
 who has undergone Implant Training in SERVER SIDE SCRIPTING  
 from 17.12.15 to 22.12.15. During the course of training  
 period, the conduct of the trainee was found to be Good.

*M. Ravi*  
 Training Facilitator

*[Signature]*  
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Head Office: 107, Usman Road, TNagar, Chennai.

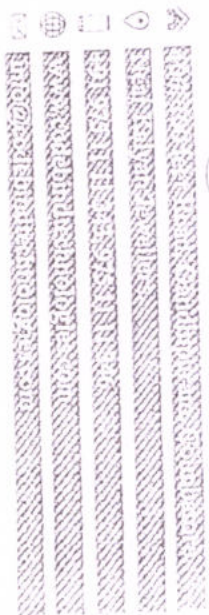
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### CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

**CSTIP231103160412**

This certificate is awarded to Kennedy M  
who has undergone Implant Training in STRIVE AND SUCCEED  
from 17.12.15 to 23.12.15. During the course of training  
period, the conduct of the trainee was found to be Good.

*M. Ravi*  
Training Facilitator

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Issuing Authority

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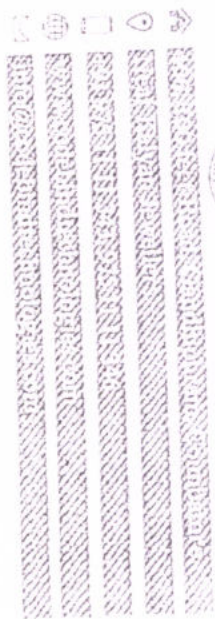




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### CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER **CRT19C2811D3116611**

This certificate is awarded to KEERUHAN S,  
who has undergone Implant Training in SERVER SIDE SCRIPTING,  
from 11.12.15 to 28.12.15. During the course of training  
period, the conduct of the trainee was found to be Good.

*M. Ravi*  
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EDGE DETECTION IN DENTAL  
IMAGE USING  
CANNY ALGORITHM



A PROJECT REPORT

*Submitted by*

|                    |                |
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| M.SAKTHI VENKATESH | (731612104047) |
| A.UMARAJESWARI     | (731612104058) |
| K.YAMUNA           | (731612104063) |

*in partial fulfillment for the award of the degree*

*of*

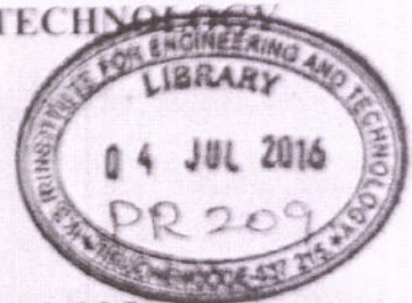
BACHELOR OF ENGINEERING

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KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE -637 215



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APRIL 2016

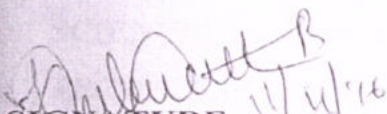
  
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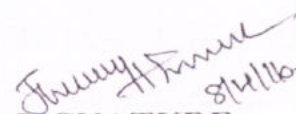
**ANNA UNIVERSITY:CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "EDGE DETECTION IN DENTAL IMAGE USING CANNY ALGORITHM" is the bonafide work of K.DHIVIYA (731612104009), M.SAKTHI VENKATESH (731612104047), A.UMA RAJESWARI (731612401058) and K.YAMUNA (731612104063) who carried out the project work under my supervision.

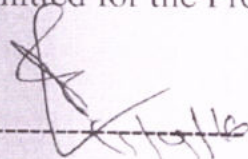
  
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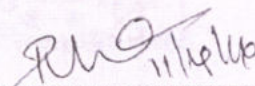
**Dr.B.KALAAVATHI**  
**HEAD OF THE DEPARTMENT**  
**PROFESSOR & HEAD**  
Computer Science and Engineering  
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Tiruchengode-637215

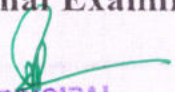
  
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**Mr.M.JAGANATHAN**  
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Submitted for the Project Viva-Voce Examination held on 11.04.2016

  
Internal Examiner

  
External Examiner

  
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K. S. R. KALVA SAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL DISTRICT, TAMIL NADU.

Date: 03-02-2016

**INTERNSHIP CONFIRMATION**

This is to certify that following Final year B.E (CSE) students in **KSR Institute For Engineering And Technology, Coimbatore** will be undergoing internship in our Organization from **February 2016 to March 2016**.

**STUDENTS DETAILS:**

1.P.Dhivya Bharathi-731612104010  
2.T.Raghavi -731612104040  
3.M.Deve -731612104007


PORAS TECHNOLOGIES



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



# MOBILE PHONE BASED ATTENDANCE SYSTEM



## A PROJECT REPORT

*Submitted by*

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| MENAKA V       | 731612104026 |
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*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

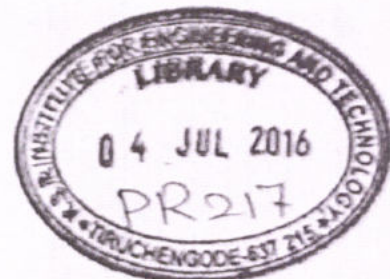
**COMPUTER SCIENCE AND ENGINEERING**


**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**TIRUCHENGODE 637 215**

**ANNA UNIVERSITY: CHENNAI 600 025**

APRIL 2016



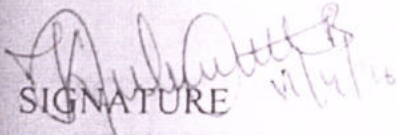
  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KADAVANIGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL DL, TAMIL NADU.



ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "Mobile Phone Based Attendance System" is the bonafide work of "KISHOR KUMAR A (731612104021), MENAKA R (731612104025), MENAKA V (731612104026), NIVETHA B (731612104037)" who carried out the project work under my supervision.

  
SIGNATURE

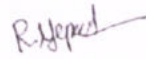
Dr. B. KALAAVATHI

HEAD OF THE DEPARTMENT

PROFESSOR & HEAD,

Computer Science and Engineering,  
KSR Institute for Engineering and  
Technology,

Tiruchengode - 637215.



SIGNATURE

Mr. R. GOPAL

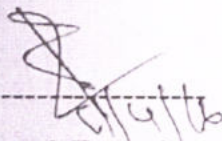
SUPERVISOR

ASSISTANT PROFESSOR,

Computer Science and Engineering,  
KSR Institute for Engineering and  
Technology,

Tiruchengode - 637215.

Submitted for the Project Viva-Voce Examination held on 11-04-2016



Internal Examiner



External Examiner

PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KUMARVAR,  
TIRUCHENGODE - 637 215,  
KANNIYAL DE, TAMIL KADU.



# IMPLEMENTATION OF MACHINE LEARNING



## ALGORITHM IN PROGNOSIS OF BREAST CANCER USING R LANGUAGE

A PROJECT REPORT

*Submitted by*

S.PRASAD (731612104039)

S.SABIYA (731612104045)

K.R.VEERAVIGNESH (731612104060)

S.VIGNESHWARAN (731612104061)

*in partial fulfilment for the award of the degree*

*of*

BACHELOR OF ENGINEERING

*in*

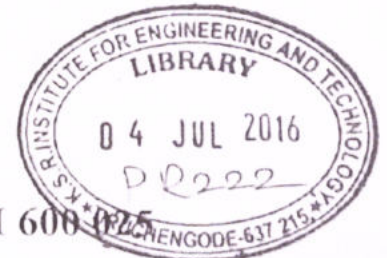
COMPUTER SCIENCE AND ENGINEERING


KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE - 637 215

ANNA UNIVERSITY :: CHENNAI 600 025

APRIL 2016



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

# ANNA UNIVERSITY: CHENNAI 600 025

## BONA FIDE CERTIFICATE

Certified that this project report titled "IMPLEMENTATION OF MACHINE LEARNING ALGORITHM IN PROGNOSIS OF BREAST CANCER USING R LANGUAGE" is the bona fide work of S.PRASAD(731612104039), S.SABIYA (731612104045), KR.VEERAVIGNESH (731612104060) and S.VIGNESHWARAN (731612104061) who are carried out the project work under my supervision.



SIGNATURE

Dr. B. KALAAVATHI  
HEAD OF THE DEPARTMENT

Computer Science and Engineering  
KSR Institute for Engineering and  
Technology  
Tiruchengode - 637 215




SIGNATURE

Dr. B. KALAAVATHI  
SUPERVISOR

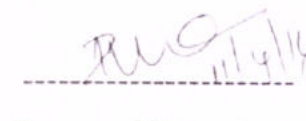
PROFESSOR

Computer Science and Engineering  
KSR Institute for Engineering and  
Technology  
Tiruchengode - 637 215


Submitted for the project work Viva - Voice examination held on 11/04/2016



Internal Examiner



External Examiner



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





# INFO GENESIS

DATE: 11.02.2015

## TO WHOM EVER IT MAY CONCERN

This is to certify that below students of final year BE CSE from KSR INSTITUTE OF ENGINEERING AND TECHNOLOGY TIRUCHENGODE, has been permitted to execute their project work under the title "TOWARDS THE DESIGN OF OPTIMAL DATA REDUNDANCY SCHEMES FOR HETEROGENEOUS CLOUD STORAGE INFRASTRUCTURE" in our concern during the period from 15<sup>th</sup> FEBRUARY 2016 to 15<sup>th</sup> MARCH 2016.

### STUDENTS NAME

1. ARAVIND R
2. ARJUN M
3. DHARUN PRABHAKARAN K K
4. MUTHU KUMARAN M

For INFO GENESIS

**INFO GENESIS**

70, NEHRU STREET, RAM NAGAR,  
COIMBATORE-641 009  
(Tamil Nadu)

70, Nehru Street, Ram Nagar, Coimbatore - 9  
Ph : +91-422-4036915, E-Mail : info@infogenesis.in  
Website : http://www.infogenesis.in/

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

Administrative Business Partner  
HCL Career Development Centre  
3<sup>rd</sup> Floor, TAB COMPLEX  
Opp. American Hospital  
Cantonment, Trichy - 620 001  
Ph: 97-88-97-11-00  
e-mail id: trichy@hclcdc.in

## LETTER OF APPROVAL

To

The Head of the Department,  
Bachelor of Engineering (CS),  
KSR Institute Engineering and Technology,  
Tiruchengode.

Dear Sir/Madam,

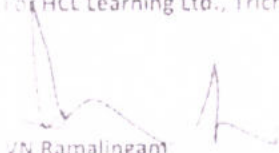
With reference to the application by Ms.Monisha V (Reg No., 731612104031) final year BE CSE student of your college for doing her final year project internship training in our organization. We wish to permit Ms.Monisha V for her project internship training from the date 2<sup>nd</sup> February 2016 to 31<sup>st</sup> March 2016 in our Organization.

We have informed our Trainer to fully support Ms.Monisha V in the training & development of the project and internship.

Please contact us in case you need any clarifications.

Yours Sincerely,

For HCL Learning Ltd., Trichy.



V.N. Ramalingam

Centre Head, (Mobile: 9445550437,

Email Id: [trichy@hclcdc.in](mailto:trichy@hclcdc.in) )



**HCL**  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. P. KALVINAGAR,  
TIRUCHENGODE - 637 215,  
NAGARCOLE DISTRICT, TAMIL NADU.





STUDENT'S PROGRESSION &  
ASSAY CIPHERING EXECUTION



A PROJECT REPORT

*Submitted by*

|                    |                |
|--------------------|----------------|
| ARULGNANASUNDARI B | (731612104005) |
| REVATHI T          | (731612104043) |
| ROSHINI S          | (731612104044) |
| SAI PRAVEEN V      | (731612104046) |

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

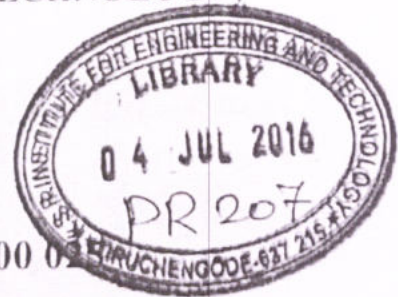
**COMPUTER SCIENCE AND ENGINEERING**

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

**TIRUCHENGODE – 637 215**

**ANNA UNIVERSITY: CHENNAI 600 025**

**APRIL 2016**




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

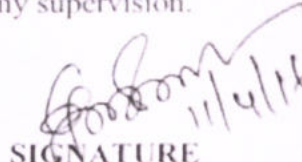
ANNA UNIVERSITY; CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report " STUDENT'S PROGRESSION & ASSAY CIPHERING EXECUTION" is the bonafide work of "ARULGNANASUNDARI B (731612104005), REVATHI T (731612104043), ROSHINI S (731612104044), SAI PRAVEEN V (731612104046) " who carried out the project under my supervision.

  
SIGNATURE 11/4/16

Dr.B.KALAAVATHI  
HEAD OF THE DEPARTMENT  
PROFESSOR & HEAD  
Computer Science and Engineering  
K S R Institute for Engineering  
and Technology  
Tiruchengode-637 215


  
SIGNATURE 11/4/16

Dr.G.MALATHY  
SUPERVISOR  
ASSOCIATE PROFESSOR  
Computer Science and Engineering  
K S R Institute for Engineering  
and Technology  
Tiruchengode-637 215

Submitted for the Project Viva- Voice Examination held on 11/04/2016

  
Internal Examiner  
Examiner

  
External

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. NALVENAGAR,  
TIRUCHENGODE - 637 215,  
NAMANGALUR TALUK, TAMIL NADU.



# K S R Institute for Engineering and Technology

Tiruchengode, Namakkal(Dt) , Tamil Nadu

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

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

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

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

| S. No. | Name of the Course                                | Course Code | Name of the students   | Page No. |
|--------|---|-------------|--|----------|
| 1.     | Circuit Theory                                    | EE6201      | Ganesh.V<br>Hari Ram.R   | 32       |
| 2.     | Electric Circuits Laboratory                      | EE6211      | Aravindan.B<br>Jyothi Basu.K                                   | 32       |
| 3.     | Engineering Physics-I                             | PH6151      | Prabhu.M<br>Gobi.G   | 34       |
| 4.     | Digital Logic Circuits                            | EE6301      | Sivaguru<br>Vignesh  | 33       |
| 5.     | Electromagnetic Theory                            | EE6302      | Satheesh Kumar<br>Pavin Kumar                                  | 35       |
| 6.     | Electronic Devices and Circuits                   | EC6202      | Priyasuganya K   | 39       |
| 7.     | Linear Integrated Circuits and Applications       | EE6303      | Asha K<br>Gunasree B   | 40       |
| 8.     | Linear and Digital Integrated Circuits Laboratory | EE6311      | Priyanka J R<br>Vasumitha D                                    |          |
| 9.     | Transmission and Distribution                     | EE6402      | Kasi.M<br>Priyadharsini.M<br>Thirukumaran.V<br>Yuvaraj.V       | 44       |
| 10.    | Digital Signal Processing                         | EC2312      | Banupriya.C<br>Hari Selva Rajan.P<br>Periyasamy.C<br>Prakash.K | 45       |
| 11.    | Measurements and Instrumentation                  | EE6404      | Ashokkumar.M<br>Naveenkumar.S<br>Pavithra.V<br>Yajanraj.P      | 46       |
| 12.    | Electrical Machines Laboratory - I                | EE6411      | Deepanprabhu.J.M<br>Mathan.G<br>Suji.R<br>Vasanthakumar.N      | 47       |

| S. No. | Name of the Course                             | Course Code | Name of the students  | Page No. |
|--------|--|-------------|---|----------|
| 13.    | Power System Analysis                          | EE6501      | Kasi.M<br>Priyadharsini.M<br>Thirukumaran.V                 | 48       |
| 14.    | Power System Operation and Control             | EE6603      | Yuvaraj.V<br>Deepanprabhu.J.M                               |          |
| 15.    | Power System Simulation Laboratory             | EE6711      | Mathan.G<br>Suji.R<br>Vasanthakumar.N                       |          |
| 16.    | Power Plant Engineering                        | ME6701      | Sadhan Kumar<br>Sathiyathan                                 | 35       |
| 17.    | Power Electronics                              | EE2301      | Makeshkannan.P<br>Sivakumar.S                               | 50       |
| 18.    | Power Electronics and Drives Laboratory        | EE6611      | Deepak R  |          |
| 19.    | Electrical Machines II                         | EE 2251     | Ashokkumar.M<br>Naveenkumar.S                               | 51       |
| 20.    | Electrical Machines Laboratory - II            | EE6512      | Yajanraj.P<br>Pavithra.V                                    |          |
| 21.    | Control Systems                                | IC6501      | Tamil Selvan.S<br>Surya.S                                   | 33       |
| 22.    | Control and Instrumentation Laboratory         | EE6511      | Mohammed Faizal Rahman.H<br>Rahul.M.S                       | 33       |
| 23.    | Solid State Drives                             | EE6601      | Fazilahamed.S.S<br>Janani.N<br>Satish.R<br>Vimalanathan.C   | 52       |
| 24.    | Design of Electrical Machines                  | EE6604      | Divya.R<br>Karthik.S<br>Prabhu.C<br>Prasanth.N              | 53       |
| 25.    | Power System Transients                        | EE6002      | Kalaiselvi.T<br>Menaka.M<br>Vignesh.R                       | 54       |
| 26.    | Protection and Switchgear                      | EE6702      | Yuvaraj.S   |          |
| 27.    | High Voltage Engineering                       | EE6701      | Deepakraja.E<br>Keerthana.K<br>Sheik Imran.Y<br>Vanitha.N   | 55       |
| 28.    | Special Electrical Machines                    | EE2403      | Kalaiyaran.P<br>Prakash.K<br>Sureshkumar.S<br>Vetriselvan.S | 56       |
| 29.    | Power Electronics for Renewable Energy Systems | EE6009      | Balasaravanan.V<br>Poornima.M<br>Thamaraikannan.K           | 57       |



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



**TIRUCHENGODE - 637215**

**DEPARTMENT OF EEE**

**IDEA CONTEST**



**In Association with**

**ISTE**

**&**


**BEES ASSOCIATION**

**CHIEF GUEST**

**Mr.V.ANBALAGAN**

**SUB-DIVISIONAL Engineer,**

**BSNL ,SALEM**

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

**Date: 31.07.2015**

**Venue: Power Electronics lab**

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY THIRUCHENGODE-637215

BEEES ASSOCIATION

IDEA CONTEST

ACADEMIC YEAR (2015-2016)


| S.NO | Year / Sem./Sec. | NAME OF THE STUDENT | TITLE                                | Prizes Won |
|------|------------------|---------------------|--------------------------------------|------------|
| 1    | II               | KESEVAN.R           | ARTIFICIAL INTELLIGENCE              | -          |
| 2    | II               | MANIKANDAN.D        |                                      | -          |
| 3    | II               | MYILSAMY.A          | ROBOTIC WORLD                        | -          |
| 4    | II               | JAYARAM             |                                      | -          |
| 5    | II               | GANESH.V            | PETROLISM                            | -          |
| 6    | II               | HARI RAM.R          |                                      | -          |
| 7    | II               | DIVAGHAR.A          | HOW TO SAVE ELECTRICITY              | -          |
| 8    | II               | BALACHANDAR.K.R     |                                      | -          |
| 9    | II               | KARTHICK.T.M        | PIEZO ELECTRIC EFFECT                | -          |
| 10   | II               | BOOPALAN.R          |                                      | -          |
| 11   | II               | KAVIN KUMAR.M       | ALCOHOL SENSING ENGINE LOCK SYSTEM   | -          |
| 12   | II               | PRAVEEN KUMAR.M     |                                      | -          |
| 13   | II               | ARAVINDAN.B         | AIR BAG SYSTEM IN MOBILE             | -          |
| 14   | II               | JYOTHI BASU.K       |                                      | -          |
| 15   | II               | MADHAN.D            | WIRELESS POWER TRANSMISSION          | -          |
| 16   | II               | ANBARASAN.G         |                                      | -          |
| 17   | II               | PRATHAP.S           | GATHR TO ELECTRICITY LOSSES AND SAVE | -          |
| 18   | II               | GOWTHAM.P           |                                      | -          |
| 19   | II               | KARTHICK.B          | BRAIN GATE TECHNOLOGY                | -          |
| 20   | II               | BOOPATHI RAJAN.S    |                                      | -          |
| 21   | II               | MADHAN GOPAL.G      | RENEWABLE ENERGY SOURCES             | -          |
| 22   | II               | SURENDHAR BABU.A    |                                      | -          |
| 23   | II               | DIYANA.S            | FUTURE MOBILE PHONE                  | -          |
| 24   | II               | BAVATHARANIS        |                                      | -          |
| 25   | II               | KEERTHANA.A         | WIRELESS HEAD PHONE                  | -          |
| 26   | II               | KARTHIGA.N          |                                      | -          |
| 27   | II               | GOMATHI.P.K         | HUMAN POWER VEHICLE                  | -          |
| 28   | II               | DIVYA BARATHI.S     |                                      | -          |
| 29   | II               | JEEVA.V             | RUN ON WATER MOTOR BIKE              | -          |
| 30   | II               | KEERTHANA.S         |                                      | -          |
| 31   | II               | HARINI.K            | VOICE USAGE MOBILE CHARGING          | -          |
| 32   | II               | ANITHA.M            |                                      | -          |



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NAMAKKAL Dt, TAMIL NADU.



|    |     |                  |  |       |
|----|-----|------------------|--|-------|
| 33 | II  | LAVANYA.G        | 5 <sup>th</sup> SENSE TECHNOLOGY           | -     |
| 34 | II  | KANAGA PRIYA.R   |  | -     |
| 35 | II  | STEEPHAN SIBU.S  | SUCCESS FROM WASTE                         | THIRD |
| 36 | II  | YOGESH VARAN.B   |  | THIRD |
| 37 | II  | PRAVEEN.M.K      | HARVESTING HUMANS FOR ENERGY               | -     |
| 38 | II  | RANJITH.T        |  | -     |
| 39 | II  | YUVARAJ.Y        | BRUSHLESS MOTOR                            | -     |
| 40 | II  | ROKESH KUMAR.R   |  | -     |
| 41 | II  | SOUNDHAR KUMAR.C | TIME TRAVEL                                | -     |
| 42 | II  | PRAVEEN KUMAR.B  |  | -     |
| 43 | II  | SARAVANAN.V      | GREEN POWER STORAGE                        | -     |
| 44 | II  | RAJ KUMAR        |  | -     |
| 45 | II  | VINOTH KUMAR.R   | NANO TECHNOLOGY IN MOBILE                  | -     |
| 46 | II  | UTHIRA KUMAR.E   |  | -     |
| 47 | II  | TAMILANBAN .N    | MYO BAND                                   | -     |
| 48 | II  | SURYA.S          |  | -     |
| 49 | II  | MOTHINATH.S      | TRANSPARENT POWER GENERATOR                | -     |
| 50 | II  | THYAGARAJAN      |  | -     |
| 51 | II  | PRAVEEN KUMAR.P  | MOBILE OPERATION SYSTEM                    | -     |
| 52 | II  | SURYA.E          |  | -     |
| 53 | II  | SIVAGURU         | FUZZY LOGIC CONTROLLER BY WIND ENERGY      | -     |
| 54 | II  | VIGNESH          |  | -     |
| 55 | II  | RAVI MOULIDHARAN | AUTOMATIC TYPE INFLATING SYSTEM            | -     |
| 56 | II  | SANGAVIK         | WIRELESS USING SOLAR MOBILE PHONE CHARGING | -     |
| 57 | II  | MYTHILI.B        |  | -     |
| 58 | II  | NAGAMANIE        | WIRELESS POWER TRANSMISSION THROUGH SOLAR  | -     |
| 59 | II  | NANDHINI.T       | POWER SATTELITE                            | -     |
| 60 | II  | PRIYANKA.M       | REDUCTION OF POWER CONSUMPTION IN MOBILE   | -     |
| 61 | II  | NOORNIHARA.A     |  | -     |
| 62 | II  | PRAKASH.C        | WIRELESS SENSOR                            | -     |
| 63 | II  | SABAREES WARAN.A |  | -     |
| 64 | II  | TAMIL SELVAN.S   | SENSOTRONICS BRAKE CONTROL                 | -     |
| 65 | II  | SURYA.S          |  | -     |
| 66 | II  | MOHAMMED FAIZAL  | KINETIC TILES                              | -     |
| 67 | II  | RAHUL.M.S        |  | -     |
| 68 | III | VASUMITHA.D      | ENERGY HARVESTING & PIEZO ELECTRICITY      | -     |
| 69 | III | JOTHI LINGAM     |  | -     |
| 70 | III | INDHU.C          | LI FI                                      | -     |
| 71 | III | GAYATHRI.A.M     |  | -     |
| 72 | III | MOHANA.M         | ARTIFICIAL INTELLIGENCE                    | -     |
| 73 | III | BAVITHRA DEVI.S  |  | -     |

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



|     |     |                   |                                   |        |
|-----|-----|-------------------|-----------------------------------|--------|
| 74  | III | PRIYANKA.J.R      | SMART HOME                        | -      |
| 75  | III | GAYATHRI.T        |                                   | -      |
| 76  | III | PAVITHRA.N        | NANO ROBOTICS                     | -      |
| 77  | III | ABIRAM.K.B        |                                   | -      |
| 78  | III | AHAMAD HUSSAINY.S | INDIAN DRONES                     | SECOND |
| 79  | III | ANANDHA KRISHNAN  |                                   | SECOND |
| 80  | III | ARUMUGAM.A        | IMONSE                            | -      |
| 81  | III | BHUVANA KUMAR.N   |                                   | -      |
| 82  | III | NAVEEN KUMAR.R    | HYBRID MOTORCYCLE                 | -      |
| 83  | III | GOKULA KANNAN.S   |                                   | -      |
| 84  | III | MOHAN RAJA        | SMART CITY                        | -      |
| 85  | III | PONKAVIN.T        |                                   | -      |
| 86  | III | NANDHA GOPAL.P    | SOLAR ROADWAYS                    | -      |
| 87  | III | MOHAN RAJ.K       |                                   | -      |
| 88  | III | ASHA.K            | WITRICITY                         | -      |
| 89  | III | GUNA SREE.B       |                                   | -      |
| 90  | III | BHARATH KUMAR.S   | BIOMETRICS                        | -      |
| 91  | III | NEERAJ.P          | PAPER CAPACITOR                   | -      |
| 92  | III | GOWTHAMAN.P.K     |                                   | -      |
| 93  | III | JAYA GOPAL.R      | POWER GENERATED BY SPEED BRAKING  | -      |
| 94  | III | HARIHARAN.P       |                                   | -      |
| 95  | III | DHIVAGHAR.R       | SPACE SOLAR                       | -      |
| 96  | III | KARTHIKEYAN.A     |                                   | -      |
| 97  | III | DIVIYA.S          | CALLIBRATION OF WEATHER CONDITION | -      |
| 98  | III | PRIYADHARSHINI.N  |                                   | -      |
| 99  | III | AJITH KUMAR.K     | IR                                | -      |
| 100 | III | KAVIN KUMAR.S     |                                   | -      |
| 101 | III | KRISHNA MOORTHILS | SMART GRID                        | -      |
| 102 | III | JEEVA.S           |                                   | -      |
| 103 | III | BALAMANIKANDAN.G  | SMART TECHNOLOGY                  | -      |
| 104 | III | MAHENDRAN.S       |                                   | -      |
| 105 | III | PRABHU.M          | MARS                              | -      |
| 106 | III | GOBLG             |                                   | -      |
| 107 | III | SANTHIYA.C        | SOLAR ENERGY                      | -      |
| 108 | III | SOUNDARYA.K       |                                   | -      |
| 109 | III | SHALINI.P         | ENERGY DEMAND                     | FIRST  |
| 110 | III | SUMITHRA.K        |                                   | FIRST  |
| 111 | III | SOWMIYA.M         | CONVERTION OF ENERGY              | -      |
| 112 | III | SOUNDARYA.N       |                                   | -      |
| 113 | III | THULASI.T         | CAR ACCIDENT REDUCTION            | -      |
| 114 | III | SOWMIYA.M         |                                   | -      |

  
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|     |     |                    |   |   |
|-----|-----|--------------------|---|---|
| 115 | III | PRIYASUGANYA.K     | BIO GAS                                     | - |
| 116 | III | SASIREKA.G         |   | - |
| 117 | III | THULASIMANI.D      | 4-AIR                                       | - |
| 118 | III | VAISNAV.LL         |   | - |
| 119 | III | VENSHIKA.A         | SOCIAL PROBLEM SOLUTION                     | - |
| 120 | III | SHOBANA.K          |   | - |
| 121 | III | SHIVAMBHIGA.D      | OIL SPILLS IN OCEAN                         | - |
| 122 | III | RAMYA.M            |   | - |
| 123 | III | SATHYA.R           | RECYCLING PROCESS                           | - |
| 124 | III | SHUBHA.E           |   | - |
| 125 | III | SANJAY KUMAR.C     | FUTURE ON ELECTRICITY                       | - |
| 126 | III | SHIVABHARATHI      |   | - |
| 127 | III | TAMIL SELVAN.R     | MYSTERIOUS OF LIGHT                         | - |
| 128 | III | SAMUVAEL.S         |   | - |
| 129 | III | SARAN KUMAR.R.R    | RECYCLING OF WASTAGE                        | - |
| 130 | III | YUVARAJ.S.S        |   | - |
| 131 | III | RAJKUMAR.T         | CONTROLLING OF POLLUTION IN THERMAL STATION | - |
| 132 | III | SURESH.P           |   | - |
| 133 | III | SADHAN KUMAR       | SAVING ELECTRICITY                          | - |
| 134 | III | SATHIYANATHAN      |   | - |
| 135 | III | VINOTH KUMAR.M     | MYO SENSOR                                  | - |
| 136 | III | VIVEKANANDAN.M     |   | - |
| 137 | III | S.SRIDHAR          | MOBILE PHONES                               | - |
| 138 | III | S.SHAHUL HARNEETH  |   | - |
| 139 | III | SATHEESH KUMAR     | ANALYSIS OF 1G,2G,3G PHONES                 | - |
| 140 | III | PAVIN KUMAR        |   | - |
| 141 | III | SURESH KUMAR       | ENERGY EFFICIENCY MOTOR                     | - |
| 142 | III | SENTHILL RAJA      |   | - |
| 143 | III | G.THIRUNAVUKKARASU | AIR COMPRESSOR                              | - |
| 144 | NI  | VIGNESH.K          |   | - |

JURY'S SIGNATURE

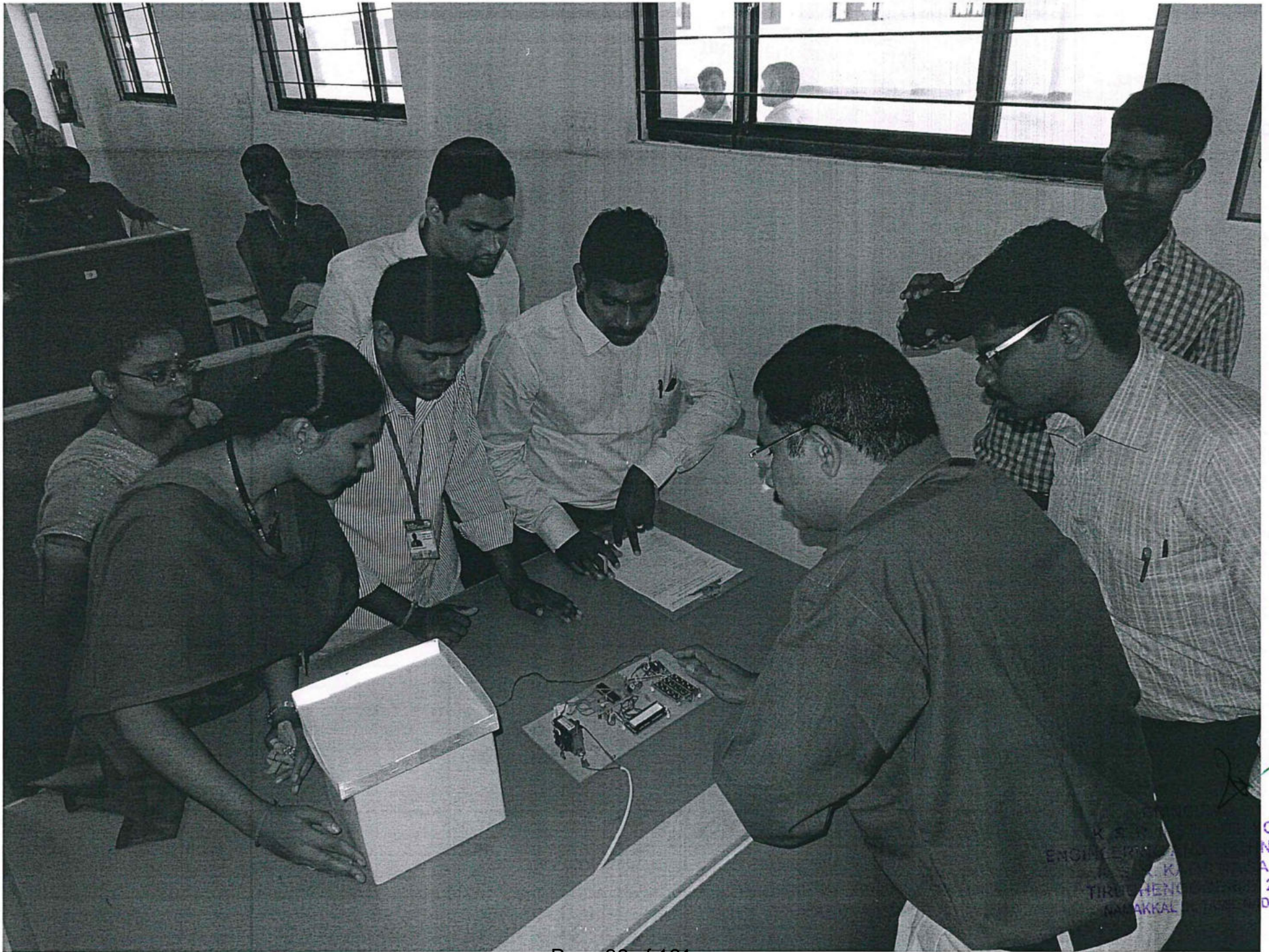
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HR/INPL/2015/398

16-June-2015

**CERTIFICATE**

This is to certify that **Ms. Priyasuganya K, B.E (EEE)** student of **K S R Institute of Engineering & Technology, Namakkal** has undergone her Inplant Training in **Titan Company Limited, Hosur** from **08-June-2015** to **13-June-2015**.

During this period her Performance and Conduct was good.

for TITAN COMPANY LIMITED

*Bhalajie R*  
**Bhalajie R**

**Senior Manager – HR**

  
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Titan Company Limited


3 Sipcot Industrial Complex Hosur 635 126 TN INDIA Tel 91 4344 664 199 Fax 91 4344 276037 CIN: L74999TZ1984PLC001456  
Corporate Office No 132/133 DivyaSree Technopolis Yamalur Main Road Yamalur Post Bengaluru 560 037 India Tel 91 80 6660 9000 Fax 91 80 6660 8073  
www.titan.co.in

A **TATA** Enterprise



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This is to certify that K. ASHA  
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During the course period the performance of the trainee  
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has done inplant training from 1/6/2015 to 3/6/2015  
During the course period the performance of the trainee  
was found to be GOOD

  
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ENGINEERING TECHNOLOGY  
K. S. R. KALANIDHARAN  
TIRUCHENGODE-637 215,  
NAMAKKAL DL, TAMIL NADU



Project Manager




CERTIFICATE OF COMPLETION

This is to certify that J. R. PRIYANKA

has done inplant training from 1/6/2015 to 3/6/2015

During the course period the performance of the trainee

was found to be GOOD

  
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Project Manager



CERTIFICATE OF COMPLETION

This is to certify that D. VASUMITHA  
has done inplant training from 1/6/2015 to 3/6/2015.

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Certified that this project report "CONTROL AND ANALYSIS OF UNIFIED POWER FLOW CONTROLLER CONNECTED AT TRANSMISSION LINE" is the bonafide work of "KASI M., PRIYADHARSINI M., THIRUKUMARAN V., YUVARAJ V" who carried out their project work under my supervision.



**SIGNATURE**

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

**HEAD OF THE DEPARTMENT**

Professor & Head

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**SIGNATURE**

Mr. Y. KALIMUTHU M.E.,

**SUPERVISOR**

Assistant Professor

Electrical and Electronics

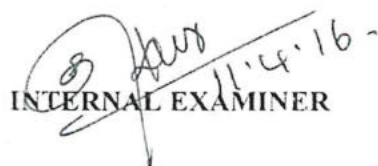
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Certified that this project report “**RFID BASED TALKING SIGNAGE AND NAVIGATION FOR BLIND PEOPLE**” is the bonafide work of “**BANUPRIYA C., HARI SELVA RAJAN P., PERIYASAMY C., PRAKASH K.**” who carried out the project work under my supervision.

  
SIGNATURE

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

### HEAD OF DEPARTMENT

Professor & head  
Electrical and Electronics  
Engineering,  
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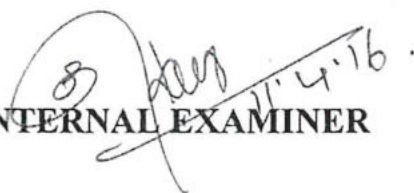
  
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Mr.S.VELMURUGAN  
M.E.,(Ph.D).,

### SUPERVISOR

Assistant professor  
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| YAJANRAJ P    | (731612105058) |
| PAVITHRA V    | (731612105306) |

the final year electrical and electronics engineering students of K.S.R INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE have successfully completed project on "REAL TIME SENSORLESS TEMPERATURE MONITORING OF INDUCTION MOTOR" during the period 08/03/2016 to 30/03/2016 under the guidance of R.KAJENDRAN Senior Manager – (ELECTRICAL) – TNPL, Karur.

  
R.KAJENDRAN

SENIOR MANAGER – (ELECTRICAL)  
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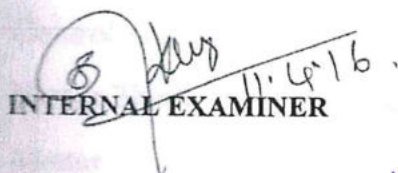
#### SUPERVISOR

Assistant Professor  
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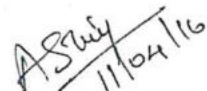
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| <b>PRIYADHARSINI M</b> | <b>(731612105038)</b> |
| <b>THIRUKUMARAN V</b>  | <b>(731612105051)</b> |
| <b>YUVARAJ V</b>       | <b>(731612105060)</b> |

the final year Electrical and Electronics Engineering students of K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE have successfully completed project on "CONTROL AND ANALYSIS OF UNIFIED POWER FLOW CONTROLLER CONNECTED AT TRANSMISSION LINE" during the period 04/02/2016 to 24/03/2016 under the guidance of **Er.A.KANDAPPAN B.E.**, Assistant Engineer / MRT / MTPS-I, Mettur Thermal Power Station.

  
**Er. A. KANDAPPAN B.E.**,  
 Assistant Engineer,  
 Meter & Relay Testing,  
 Mettur Thermal Power Station,  
 Mettur.

  
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| <b>MATHAN G</b>         | <b>(731612105024)</b> |
| <b>SUJI R</b>           | <b>(731612105047)</b> |
| <b>VASANTHAKUMAR N</b>  | <b>(731612105053)</b> |

the final year Electrical and Electronics Engineering students of K.S.R INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE have successfully completed project on "PREDICTIVE VOLTAGE CONTROL OF TRANSFORMERLESS DYNAMIC VOLTAGE RESTORER" during the period 01/03/2016 to 31/03/2016 under the guidance of **Er.K.VIJAY ANAND B.E., MBA.,** Assistant Engineer / C&I / Mettur Thermal Power Station.

  
**Er.K.VIJAY ANAND B.E., MBA.,**

Assistant Engineer,  
 Control & Instrumentation,  
 Mettur Thermal Power Station,  
 Mettur.

  
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**SIGNATURE**

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

**HEAD OF THE DEPARTMENT**

Professor & Head

Electrical and Electronics  
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K S R Institute for Engineering and  
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**SIGNATURE**

Mr.L.NISHANTH M.E.,

**SUPERVISOR**

Assistant Professor

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

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Mr.P.SHANMUGA ARAVIND M.E.,

**SUPERVISOR**

Assistant professor

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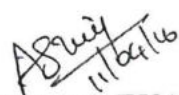
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Dr. P. VEENA M.E., Ph.D.,

SUPERVISOR

Professor

Electrical and Electronics

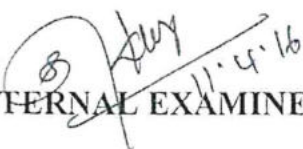
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**SIGNATURE**

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**HEAD OF THE DEPARTMENT**

Professor & Head

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K S R Institute for Engineering

And Technology,

Tiruchengode-637215.



**SIGNATURE**

Ms. R. ELENTHENDRAL M.E.,

**SUPERVISOR**

Assistant Professor

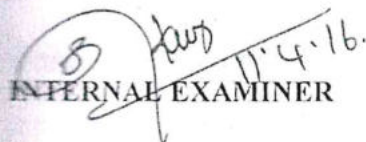
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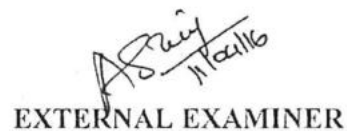
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**NAMAKKAL DI, TAMIL NADU.**



ANNA UNIVERSITY: CHENNAI 600 025

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Certified that this project report "A GRID CONNECTED DUAL VOLTAGE SOURCE INVERTER WITH POWER QUALITY IMPROVEMENT FEATURES" is the bonafide work of "KALAISELVI T., MENAKA M., VIGNESH R., YUVARAJ S.," who carried out their project work under my supervision.

**SIGNATURE**

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

**HEAD OF THE DEPARTMENT**

Professor & Head

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Engineering,

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Tiruchengode-637 215

**SIGNATURE**

Mr. C.SANTHAKUMAR  
M.E.,(Ph.D),M.B.A.,MISTE.,

**SUPERVISOR**

Assistant Professor

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K S R Institute for Engineering  
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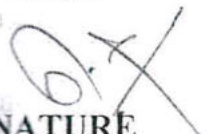
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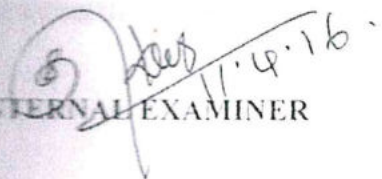
  
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Dr. R. JEYABHARATH M.E., Ph.D.,

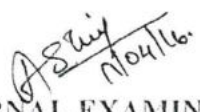
  
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Ms. S. SUDHA M.E.,

**HEAD OF THE DEPARTMENT**  
Professor & Head  
Electrical and Electronics  
Engineering,  
K S R Institute for Engineering and  
Technology,  
Tiruchengode-637215.

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

Submitted for the Project work Viva-Voce held on 11-04-2016

  
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**EXTERNAL EXAMINER**  
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**K. S. R. INSTITUTE FOR**  
**ENGINEERING AND TECHNOLOGY,**  
**K. S. R. KALVI NAGAR,**  
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**NAMAKKAL Dt, TAMIL NADU.**



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Certified that this project report "AN ADJUSTABLE SPEED PFC CUK CONVERTER FED BLDC MOTOR DRIVE FOR LOW POWER APPLICATIONS" is the bonafide work of "P.KALAIYARASAN., K.PRAKASH., S.SURESHKUMAR., S.VETRISELVAN.," who carried out their project work under my supervision.



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Professor & Head

Electrical and Electronics Engineering,

K S R Institute for Engineering and Technology,

Tiruchengode-637215.



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**SUPERVISOR**

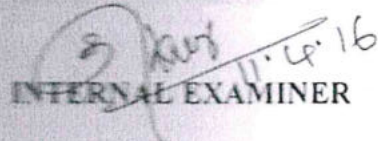
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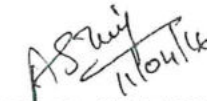
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BE (CSE,EEE,ECE,Mech)&B.Tech (IT) Programmes are Accredited by NBA

## 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.     | Electron Devices                              | EC6201      | 1.S.Subathra   | 60       |
| 2.     | Circuit Theory                                | EE6201      | 2.E.Padmapriya<br>3.A.Nivetha  |          |
| 3.     | Digital Electronics                           | EC6302      | 1.Arvinth S  | 63       |
| 4.     | Signals and Systems                           | EC6303      | 2.Loganathan K<br>3.Sabaresh V   |          |
| 5.     | Analog and Digital Circuits Laboratory        | EC6311      | 1.Mohana Srinivasa K<br>2.Sugumar R<br>3.Vigneshkumar R  | 66       |
| 6.     | Communication Theory                          | EC6402      | 1. Prakash raj M<br>2. Subashini   | 69       |
| 7.     | Electromagnetic Fields                        | EC6403      | 3. Naveen Kumar K<br>4. Nivedha Shree S<br>5. Vasanthanila                                     |          |
|        |   |             | 1.Sureshkumar C<br>2.Krishnan M  | 73       |
| 8.     | Digital Communication                         | EC6501      | 1. Prakash raj M<br>2. Subashini<br>3. Naveen Kumar K<br>4. Nivedha Shree S                    | 74       |
| 9.     | Digital Signal Processing Laboratory          | EC6511      | 1.Mekala S<br>2.Rahamathunisha S<br>3.Ramya C<br>4.Sameena Yasmin A                            | 78       |
| 10.    | Communication System Laboratory               | EC6512      | 1. Prakash raj M<br>2. Subashini<br>3. Naveen Kumar K<br>4. Nivedha Shree S<br>5. Vasanthanila | 81       |
| 11.    | Microprocessor and Microcontroller Laboratory | EC6513      | 1.Abinaya Sangamithra TA<br>2.Anupriya C<br>3.Asha S   |          |
| 12.    | Computer Architecture                         | CS6303      | 1.Megala N   | 88       |
| 13.    | Computer Networks                             | CS6551      | 2.Nivetha R<br>3.Tamilarasi P  |          |

| <b>S. No.</b> | <b>Name of the Course</b>                | <b>Course Code</b> | <b>Name of the students</b>                                    | <b>Page No.</b> |
|---------------|--|--------------------|--|-----------------|
| 14.           | Medical Electronics                      | EC6001             | 1.Aarthi M<br>2.Abirami S<br>3.Kavya T                         | 97              |
| 15.           | Computer Networks Laboratory             | EC6611             | 1.Gomathi D<br>2.Keerthiga P                                   | 91              |
| 16.           | Optical Communication and Networks       | EC2402             | 3.Krishnamoorthy C   |                 |
| 17.           | Antenna and Wave propagation             | EC6602             | 1.Manoj Kumar K<br>2.Mothesh Kumar A<br>3.Surendar             | 94              |
| 18.           | RF and Microwave Engineering             | EC2403             | 1.Bathruthen H<br>2.Devaraj P<br>3.Gowtham S<br>4.Loha priya E | 106             |
| 19.           | Digital Image Processing                 | EC2029             | 1.Indhumathi M<br>2.Kanniyammal M<br>3.Kavipriya S             | 109             |
| 20.           | Multimedia Compression and Communication | EC2037             | 1.Hemalatha T<br>2.Manimekalai K<br>3.Ponmani P                | 112             |
| 21.           | Optical & Microwave Lab                  | EC2405             | 1.Bathruthen H<br>2.Devaraj P<br>3.Gowtham S<br>4.Loha priya E | 115             |
| 22.           | Mobile Adhoc Networks                    | EC2050             | 1.Gomathi D<br>2.Keerthiga P<br>3.Krishnamoorthy C             | 119             |





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POWER EFFICIENT

A P



ARY COMPARATOR

RT

*Submitted by*

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LOGANATHAN K

(Reg.no:731612106048)

SABARESH V

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**ANNA UNIVERSITY :: CHENNAI 600 025**

APRIL 2016

  
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Certified that this project report "POWER EFFICIENT 64 BIT BINARY COMPARATOR" is the bonafide work of "ARVINTH S (731612106009), LOGANATHAN K (731612106048), SABARESH V (731612106309)" who carried out the project work under my supervision.

  
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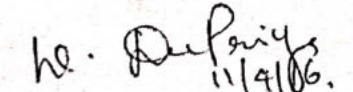
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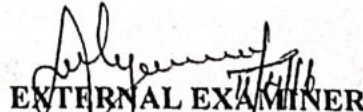
  
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## ABSTRACT

VLSI designers need to concentrate on the power consumption and circuit size while designing the combinational circuit like comparator, adders, and multipliers. Comparison of two numbers is an arithmetic operation that determines if one number is greater than, equal to, or less than the other number. In digital system, binary comparator is the important combinational circuit to do such comparison. It compares two numbers, A and B, and determines their relative magnitudes. The outcome of comparison is specified by three binary variables that indicate whether  $A > B$ ,  $A = B$ , or  $A < B$ . The logic style basically influences the speed, size, power dissipation, and the wiring complexity of a circuit. Circuit size depends on the number of transistors and their sizes and on the wiring complexity. The wiring complexity is determined by the number of connections and their lengths. Various 64 bit comparators were compared and analyzed. Some modifications were done in the existing 64 bit comparator design to minimize the power consumption and size of the circuit. This project majorly concentrates on the power consumption and usage of number of transistors. Power consumption and area of the existing and modified 64-bit binary comparator is calculated by simulation that is performed at Modelsim 6.3f and ISE design suite 8.1 Tool and the results are presented.

**Key Words:** Comparators, power consumption, arithmetic, low power.



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KSRIET



VISUAL OBJECT TRA

ITEM BASED ON MEAN

SHIFT ALGORITHM AND COLOUR DISCRIMINATIVE

FEATURES

A PROJECT REPORT

*Submitted by*

MOHANA SRINIVASA K

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SUGUMAR R

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**APRIL 2016**

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BONAFIDE CERTIFICATE

Certified that this project report " VISUAL OBJECT TRACKING SYSTEM BASED ON MEAN SHIFT ALGORITHM AND COLOUR DISCRIMINATIVE FEATURES " is the bonafide work of MOHANA SRINIVASA K (731612106060), SUGUMAR R(731612106098), VIGNESHKUMAR R (731612106106) who carried out the project work under my supervision.

  
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HEAD OF THE DEPARTMENT.

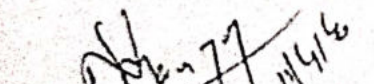
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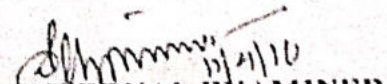
  
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EXTERNAL EXAMINER 11/4/16

  
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## ABSTRACT

Object tracking is a most challenging and most popular in computer vision field which finds applications in various fields such as farming, military, transportation, security, civil and also for commercial use . Since different target features directly affects the selected tracking algorithm, there is no universal algorithm for perfect can be suitable for various applications. Generally object tracking algorithm can be categorized as generative methods or discriminative methods. There are generative methods such as template modeling using Gaussian kernel with probability distribution followed by mean shift algorithm. The proposed a new system that uses discriminative methods such as 3D joint histogram and make use of colour discriminative features of object and background of image frames in the analysing video. 3D joint RGB histograms of the object and surrounding background are used to develop an object model. An incremental color learning scheme with a forgetting factor is applied to evolve the object model during tracking so the accuracy level of the object tracking is improved in this proposed method by consuming moderate processing time.

  
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# TAMILNADU MAGNESITE LIMITED

( A Government of Tamilnadu Undertaking )



Ref : E1/GENL/4-IV/2008 /5559  
Date : 19 .12.2015.

The Head of the Department,  
K S R Institute for Engineering and Technology,  
K.S.R. Kalvi Nagar,  
Tiruchengode - 637 215.  
Namakkal Dist.

Sir,

Sub : Inplant Training of B.E. (ECE) Students - Permission -  
Granted - reg.

Ref: Your Letter No. KSRIET/ECE//2015-2016/01, dated 18.12.2015.

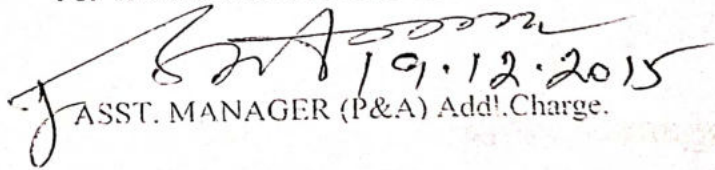
With reference to your letter cited above, we are granting permission to the following Students to undergo the Inplant Training programme in our organization during the period from 21.12.2015 to 23.12.2015.

01. Thiru. C. Sureshkumar (731613106305)/III ECE
02. Thiru. M. Krishnaa (731614106036)/II ECE.

This is for your information please.


Thanking you.

Yours faithfully,  
For TAMILNADU MAGNESITE LIMITED,

  
ASST. MANAGER (P&A) Addl. Charge.

Cc to

1. Thiru. C. Sureshkumar (731613106305)/III ECE
2. Thiru. M. Krishnaa (731614106036)/II ECE.  
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Place: Chennai-16  
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*Cults*

Place: Chennai-16

Date: 13.06.15

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TIRUCHENGODE-637 215.  
Meenambakkam, Chennai

Place: Chennai-16

Date: 12.06.15

*C. S. R.*

Principal  
RGM TTC, Chennai.



CERT NO. 1659



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has undergone In-plant training program on "BSNL Certified GSM  
Mobile RF Engineer" from 08.06.15 to 12.06.15*

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KSRIET



FACE RE N FOR

# ATTENDANCE USING PCA ALGORITHM

A PROJECT REPORT

Submitted by

|                   |                |
|-------------------|----------------|
| S.MEKALA          | (731612106056) |
| S.RAHAMATHUNNISHA | (731612106077) |
| C.RAMYA           | (731612106082) |
| A.SAMEENA YASMIN  | (731612106086) |

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*


**ELECTRONICS AND COMMUNICATION  
ENGINEERING**

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**ANNA UNIVERSITY : : CHENNAI-600025**

APRIL, 2016

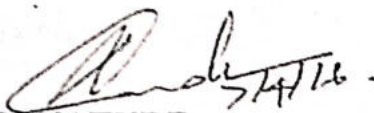
  
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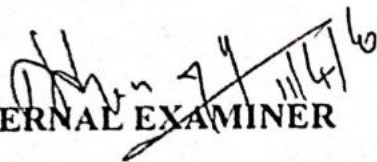
BONAFIDE CERTIFICATE

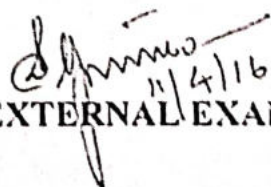
Certified that this project report "FACE RECOGNITION FOR ATTENDANCE USING PCA ALGORITHM" is the bonafide work of " S.RAHAMATHUNNISHA (Reg.no:731612106077), S.MEKALA (Reg.no:731612106056), C.RAMYA (Reg.no:731612106082), A. SAMEENA YASMIN (Reg.no:731612106086)" who carried out the project work under my supervision.


  
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## ABSTRACT

A solution to security for marking attendance in any organization using face recognition method is very effective. Face is a complex multidimensional structure and needs good computing techniques for recognition. Our approach treats face recognition as a two-dimensional recognition problem. In this scheme face recognition is done by Principal Face is a complex multidimensional structure and needs a good Computing techniques known Principal Component Analysis (PCA). Face images are projected onto a face space that encodes best variation among known face images. The face space is defined by Eigen face which are eigenvectors of the set of faces, which may not correspond to general facial features such as eyes, nose, and lips. The Eigen face approach uses the PCA for recognition of the images. The System performs by projecting pre extracted face image onto a set of face Space that represent significant variations among known face images. Face will be categorized as known or unknown face after matching with the present database. If the user is new to the face recognition system then his/her template will be stored in the database else matched against the templates stored in the database. The variable reducing theory of PCA accounts for the smaller face space than the training set of face.

  
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TIRUCHENGAI, TAMILNADU



FINGER VEIN RECOGN



ING ARDUINO UNO

CONTROLLER

A PROJECT REPORT

*Submitted by*

|                         |                |
|-------------------------|----------------|
| ABINAYA SANGAMITHRA T A | (731612106003) |
| ANUPRIYA C              | (731612106008) |
| ASHA S                  | (731612106010) |

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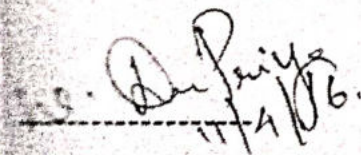
Department of ECE,

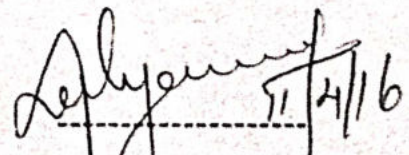
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Submitted for the project viva voice Examination held on..11.04.2016

  
Internal Examiner

  
External Examiner

  
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## ABSTRACT

In the field of electronics, the demand for security authentication systems for protecting private information has steadily increased. In consideration of information protection biometrics uses human physiological or behavioral features for personal identification. However, most existing biometric systems have high complexity in time or space or both, and are thus not suitable. In this paper, we propose a real-time embedded finger- vein recognition system for authentication. The system is implemented on a embedded platform and equipped with a novel finger-vein recognition using HPT sensor which uses CMOS technology for accessing the system. The experimental results demonstrate that the proposed finger-vein recognition system is qualified for authentication only when the person is alive by measuring and displaying the heart beat rate of that person.



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SEAMLESS AND EFFICIENT WI-FI BASED INTERNET ACCESS  
FROM MOVING VEHICLE

A PROJECT REPORT

*Submitted by*

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| MEGALAN      | (731612106055) |
| NIVEHTA R    | (731612106066) |
| TAMILARASI P | (731612106102) |

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**IN**

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Prof.R.NANDAKUMAR, M.E., (Ph.D.)  
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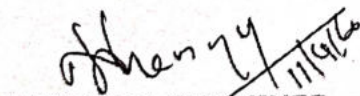
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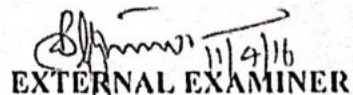
  
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Submitted for the Project viva-voice held on 11.04.2016

  
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## ABSTRACT

At present, cellular networks provide ubiquitous Internet connection, but with relatively expensive cost. Furthermore, the cellular networks have been proven to be insufficient for the surging amount of data from Internet-enabled mobile devices. Due to the explosive growth of the subscriber number and the mobile data, cellular networks are suffering overload, and the users are experiencing service quality degradation. This project implements seamless and efficient Wi-Fi based Internet access from moving vehicles. In this proposed implementation, a group of APs are employed to communicate with a client (called "AP diversity"), and the transmission succeeds if any AP in the group accomplishes the delivery with the client (called "opportunistic transmission"). Such AP diversity and opportunistic transmission are exploited to overcome the high packet loss rate, which is achieved by configuring all the APs with the same MAC and IP addresses. With such a configuration, a client gets a graceful illusion that only one ("virtual") AP exists, and will always be associated with this "virtual" AP. Uplink communications, when the client transmits a packet to the virtual AP, actually multiple APs within its transmission range are able to receive it. The transmission is successful as long as at least one AP receives the packet correctly. Proposed implementation will show that outperforms existing schemes remarkably.



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MONEY D



CATION

A PROJECT REPORT

*Submitted by*

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**APRIL 2016**

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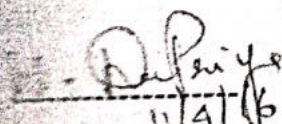
Department of ECE,

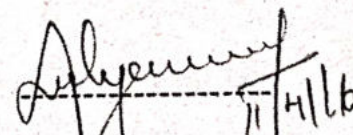
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## ABSTRACT

The next generation of banking applications won't be on desktop or mainframes but on the small devices that we carry every day. Secured e banking on the mobile is the latest issue for all mobile users. We have focused on, how biometric mechanism provides the highest security to the mobile payment. The use of biometrics has been virtually eliminated the possibility of someone gaining access to a third party cell phone directly. It is therefore important that the biometric identification templates are not certainly stored on the phone but will gather at run time. In this paper we have proposed an idea about using the iris as biometric mechanism for security purpose. It can be extracted using 1d wavelet algorithm. The proposed algorithm gives high security when compared to other biometric mechanism.

The proposed biometrics mechanism to secure the mobile payment also provides the security at the wireless transmission level. Biometrically secured mobile payment system is much safe and secure and very easy to use.



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PR277

PERFORMANCE ANALYSIS OF WEARABLE ANTENNA ON  
DIFFERENT SUBSTRATES

A PROJECT REPORT

*Submitted by*

|                 |                |
|-----------------|----------------|
| MANOJ KUMAR K   | (731612106054) |
| MOTHESH KUMAR A | (731612106063) |
| SURENDAR J      | (731612106100) |

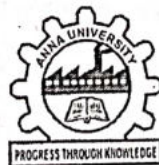
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I certify that the project report "PERFORMANCE ANALYSIS OF WEARABLE ANTENNA ON DIFFERENT SUBSTRATES" is the bonafide work of "MANOJ KUMAR K (731612106054), MOTHESH KUMAR A (731612106063), SURENDAR J (731612106100)" who carried out the project work under my supervision.

  
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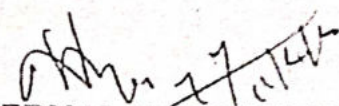
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HEAD OF THE DEPARTMENT,

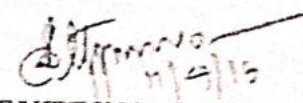
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## ABSTRACT

The project entitled "Performance Analysis of Wearable Antenna on different substrates" presents the design, fabrication, and measurement of wearable textile patch antenna with Indian clothing materials as substrates. The main distinction of a wearable patch antenna from a regular patch is that the antenna substrate is textile fabric.

High frequency patch antennas have the advantage of small size and flexibility that it can be developed as textile integratable antennas. The antenna was designed and simulated with substrates like jeans, wash cotton, silk and polyester textile material using HFSS. The return loss obtained in jean and wash cotton substrates are -22.12dB and -23.06dB respectively, which are desirable for antenna fabrication.

For antenna design purpose, we had cut the copper foil of determined dimension and pasted it in the fabric substrate using synthetic rubber adhesive. The patch dimensions for jean and wash cotton are: 45x30mm and 47x35mm . The ground plane dimension is 100x90mm for both jean and wash cotton substrates.

Return loss obtained from real time measurements using scalar network analyzer are -17.29dB for jean substrate and -14.94dB for wash cotton substrate. Frequency deviations of fabricated antenna are 11.61% and 19.83% in jean and wash cotton substrates respectively. On body measurements are yet to be done.



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iv



ANALYSIS OF DIA INOPATHY USING  
COLOR THRESHOLDING TECHNIQUE.



A PROJECT REPORT

*Submitted by*

M.AARTHI (REG NO:731612106001)  
S.ABIRAMI (REG NO:731612106004)  
T.KAVYA (REG NO:731612106044)

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

**BACHELOR OF ENGINEERING  
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APRIL 2016**

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BONAFIDE CERTIFICATE

Certified that this project report "ANALYSIS OF DIABETIC RETINOPATHY USING COLOR THRESHOLDINGTECHNIQUE" is the bonafide work of "AARTH M(731612106001),ABIRAMI S(731612106004),KAVYA T(731612106044)"whocarried out the project work under my supervision.

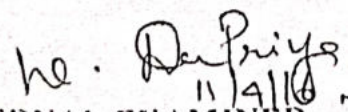
  
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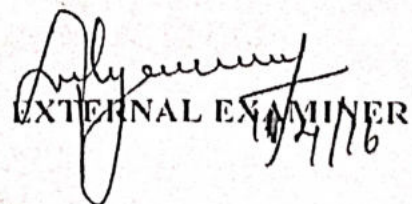
Mr.R.NANDAKUMAR M.E (Ph.D),,  
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EXTERNAL EXAMINER

  
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## ABSTRACT

Diabetic retinopathy is general diabetic eye disease and a leading cause of blindness. However, if the symptoms of the disease are identified earlier and a proper treatment is provided to patients through regular screenings, blindness can be avoided. Latest technological advances in the image processing helps auto detection of diabetic retinopathy based on the analysis of feature extractions. This analysis not only helps diagnose the disease but also helps detecting the severity of the disease. The important features that denotes the severity of the disease are Microaneurysms, Haemorrhages and exudates. Here we use some morphological process to eliminate blood vessels and optic disc of the retinal image which will affect the features of diabetic retinopathy. Hard exudates are yellowish intraretinal deposits, made up of serum lipoproteins. Exudates occur when lipid or fat leaks form abnormal blood vessel. If the exudates extend into the macular area, vision loss can occur. The features are extracted using colour histogram thresholding techniques. So the automated analysis of human eye fundus image is an important task as it can later lead to sectional blindness or thorough blindness.

  
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IV



MONEY D



CATION

A PROJECT REPORT

*Submitted by*

|                  |                |
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| GOMATHI D        | (731612106024) |
| KEERTHIKA P      | (731612106045) |
| KRISHNAMOORTHY C | (731612106047) |

*in partial fulfillment for the award of the degree*

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**BACHELOR OF ENGINEERING**

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**APRIL 2016**

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BONAFIDE CERTIFICATE

Certified that this project report "MONEY DEAL APPLICATION" is the bonafide work of "GOMATHI D (731612106024) KEERTHIKA P (731612106045), KRISHNAMOORTHY (731612106047)" who carried out the project work under my supervision.

  
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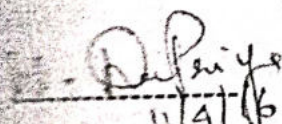
Department of ECE,

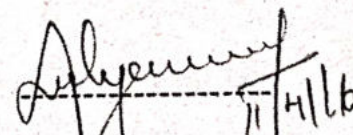
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Internal Examiner

  
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## ABSTRACT

The next generation of banking applications won't be on desktop or mainframes but on the small devices that we carry every day. Secured e banking on the mobile is the latest issue for all mobile users. We have focused on, how biometric mechanism provides the highest security to the mobile payment. The use of biometrics has been virtually eliminated the possibility of someone gaining access to a third party cell phone directly. It is therefore important that the biometric identification templates are not certainly stored on the phone but will gather at run time. In this paper we have proposed an idea about using the iris as biometric mechanism for security purpose. It can be extracted using 1d wavelet algorithm. The proposed algorithm gives high security when compared to other biometric mechanism.

The proposed biometrics mechanism to secure the mobile payment also provides the security at the wireless transmission level. Biometrically secured mobile payment system is much safe and secure and very easy to use.



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KSRIET



CHANNEL ESTIMATION TECH ON MULTIPATH FADING  
SYSTEM USING OFDM

A PROJECT REPORT

*Submitted by*

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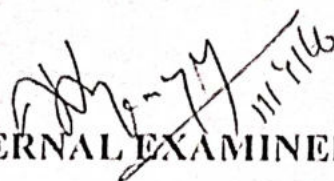


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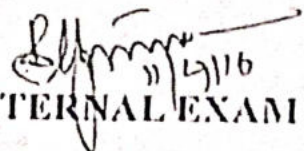
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INTERNAL EXAMINER



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## ABSTRACT

Time-varying channel estimation is an important activity in next generation wireless communication. Channel estimation is required mainly for the significant signal processing operation in multiple input multiple output (MIMO)-orthogonal frequency division multiple access (OFDMA) systems such as pre-coder designing at transmitter & relay and relay selection scheme in cooperative communication system. After comparing various channel estimation techniques the Fast Fourier transform (FFT) based channel estimation gives better performance over Discrete Fourier transform (DFT) based channel estimation using LS and MMSE algorithm. The bit error rate (BER) of Fast Fourier transform (FFT) based channel estimation is less than bit error rate (BER) of Discrete Fourier transform (DFT) using LS and MMSE algorithm. In our project, Channel estimation using pilot block arrangement has been done. The analytical expression for BER as function of signal to noise ratio (SNR), Symbol error rate (SER) has been derived. Some simulation results that illustrate the performance of the proposed algorithm is also presented.



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GSM BASED ELECT

KSRIET



LING VIA SMS

A PROJECT REPORT

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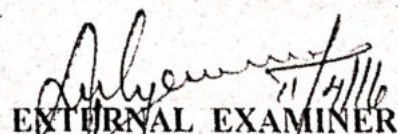
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## ABSTRACT

Traditional way of electricity bill process is so long, time consuming & required more efforts & cost. The main objective of the project is to develop an energy meter to reduce man power in calculating electricity bill. This method uses Arduino UNO for processing the data and sending signals to GSM module

The Arduino takes the reading from the energy meter and displays the reading on the LCD. The reading of the energy meter is also sent to the cell phone of the user by a message through GSM modem

The designed device is installed with the energy meter installed in consumer's home. It collects the input from the energy meter converts those input to suitable signals for Arduino. These signals from Arduino are sent to the registered mobile number of the customer using a GSM module.

Traditional process having lot of heavy work and required more time. To recover this drawback automatic meter reading application is developed which reduce the electricity meter process in just 3 steps & within few seconds.



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HUMAN DET



STEM USED FOR

## RESCUE AND DEFENCE

A PROJECT REPORT

*Submitted by*

INDHUMATHI M (731612106032)

KANNIYAMMAL M (731612106039)

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**APRIL 2016**

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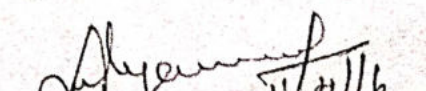
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Submitted for project work viva – voce held on: 11.04.2016

  
INTERNAL EXAMINER

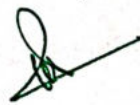
  
EXTERNAL EXAMINER

  
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## ABSTRACT

Disasters like earthquakes, building collapse, manmade disasters bomb explosion often occur and they cannot be stopped. Earthquakes produce a devastating effect and they see no difference between human and material. Hence a lot of humans are buried among the debris and it become impossible to detect them. In this project a simple robot is designed to detect and inform the presence of human being. This work aims to develop an economical robot which works using AT89C51 Microcontroller,PIR sensor etc.It can be used in areas where rescue is needed. Alive human detector uses PIR sensor to detect alive humans. As live human body emits thermal radiation it is received and manipulated by the PIR sensor to detect humans.PIR sensor are Passive Infrared Sensors. They detect change in the heat and this can be used to detect movement of people.



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AUTOMATIC DETECTION AND MEASUREMENT OF  
CISTERNA MAGNA IN FETAL BRAIN

A PROJECT REPORT

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APRIL, 2016



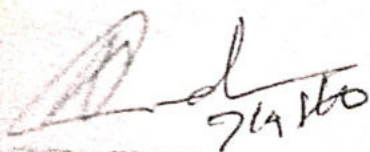
PRINCIPAL,  
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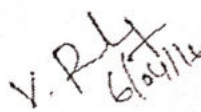


BONAFIDE CERTIFICATE

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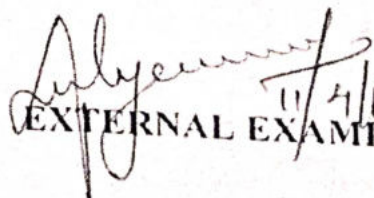


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EXTERNAL EXAMINER



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## ABSTRACT

The Cisterna magna (CM) width reference ranges were constructed based on the measurements obtained from 80 healthy fetuses with normal postnatal outcome undergoing routine first-trimester ultrasound at 11–13 weeks, using the Lambda-Mu-Sigma method. CM was measured in the fetal midsagittal view, as routinely used for nuchal translucency assessment. A mixture model grouping algorithm is presented for robust ultra sound image segmentation in the presence of partial volume averaging. The method uses additional classes to represent Estimating tissue class parameters volume voxels of mixed tissue type in the data with their probability distributions modelled accordingly. The image model also allows for noise-dependent variance values and voxel neighbourhood information is taken into account in the clustering formulation. The final result is the estimated fractional amount of each tissue type present within a voxel in addition to the label assigned to the voxel.

**Keywords:** Lambda-Mu-Sigma method, cisternamagna (CM), mixture model grouping algorithm.



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GSM BASED ELECT

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LING VIA SMS

A PROJECT REPORT

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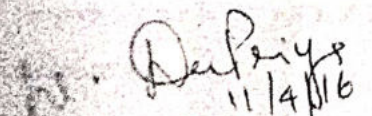
  
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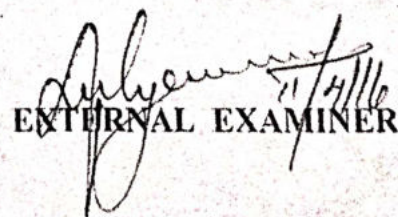
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EXTERNAL EXAMINER

  
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## ABSTRACT

Traditional way of electricity bill process is so long, time consuming & required more efforts & cost. The main objective of the project is to develop an energy meter to reduce man power in calculating electricity bill. This method uses Arduino UNO for processing the data and sending signals to GSM module

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MONEY D



CATION

A PROJECT REPORT

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| KEERTHIKA P      | (731612106045) |
| KRISHNAMOORTHY C | (731612106047) |

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BONAFIDE CERTIFICATE

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Mr. R. NANDAKUMAR, M.E..(Ph.D)  
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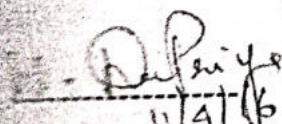
Professor,  
Department of ECE,  
K. S. R. Institute for Engineering  
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Tiruchengode-637215.

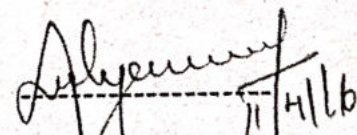
  
SIGNATURE


Mr. R. NANDAKUMAR, M.E..(Ph.D)  
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Submitted for the project viva voice Examination held on..11.04.2016

  
Internal Examiner

  
External Examiner

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



## ABSTRACT

The next generation of banking applications won't be on desktop or mainframes but on the small devices that we carry every day. Secured e banking on the mobile is the latest issue for all mobile users. We have focused on, how biometric mechanism provides the highest security to the mobile payment. The use of biometrics has been virtually eliminated the possibility of someone gaining access to a third party cell phone directly. It is therefore important that the biometric identification templates are not certainly stored on the phone but will gather at run time. In this paper we have proposed an idea about using the iris as biometric mechanism for security purpose. It can be extracted using 1d wavelet algorithm. The proposed algorithm gives high security when compared to other biometric mechanism.

The proposed biometrics mechanism to secure the mobile payment also provides the security at the wireless transmission level. Biometrically secured mobile payment system is much safe and secure and very easy to use.



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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. - Mechanical Engineering

| S. No. | Name of the Course              | Course Code | Name of the students   | Page No. |
|--------|---------------------------------|-------------|--|----------|
| 1.     | Engineering Mechanics           | GE6253      | Rajasekar.C<br>Sathish.K<br>Sathish.S<br>Thamilarasu.D                 | 123      |
| 2.     | Strength of Materials           | CE6306      | Prasanth M<br>Vigneshwaran M<br>Prabhu S<br>Sathishkumar R             | 125      |
| 3.     | Manufacturing Technology - I    | ME6302      | Sureshkumar V<br>Vijayakumar K<br>Sridhar B<br>Soundarajan S<br>Ravi A | 127      |
| 4.     | Gas dynamics and Jet Propulsion | ME6604      | Azarudeen. M<br>Gunasekaran. S<br>Mohindar. M<br>Nirmal. S             | 132      |
| 5.     | Thermal Engineering             | ME6404      | Sanjaykumar Yadav .H<br>Santhosh.M<br>Vengatesh.S<br>Vigneswaran.P     | 134      |
| 6.     | Computer Aided Design           | ME6501      | Ajithkumar<br>Vigneshwaran.P<br>Vignesh.P                              | 136      |
| 7.     | Heat and Mass Transfer          | ME6502      | Karthick Raja<br>Krishnakumar.P<br>Nijanathan.N<br>Arun.R              | 139      |
| 8.     | Finite Element Analysis         | ME6603      | Chandirasudan T<br>Dhanapal. V<br>Mathankumar K                        | 141      |
| 9.     | Automobile Engineering          | ME6602      | Dinesh R<br>Ganesh kumar R<br>Gopinath M<br>Jagadeesh RR               | 143      |



| <b>S. No.</b> | <b>Name of the Course</b>          | <b>Course Code</b> | <b>Name of the students</b>   | <b>Page No.</b> |
|---------------|------------------------------------|--------------------|---|-----------------|
| 10.           | Unconventional Machining Processes | ME6004             | Pushparaj N<br>Saravanan K<br>Sivashankar P<br>Sathyamoorthy R        | 145             |
| 11.           | Robotics                           | ME2028             | R.Chandrasekaran<br>S.P.Gokulraj<br>D.Manojkumar<br>R.Naveen Prasanth | 147             |
| 12.           | Production planning and Control    | ME2036             | Ranjithkumar.S<br>Sivakumar.R<br>Suresh.P<br>Vinothkumar.N            | 149             |



**EVALUATION AND ANALYSING THE  
MECHANICAL PROPERTIES OF NATURAL FIBER  
COMPOSITE PLATES**

**A COMPREHENSION REPORT**

*Submitted by*

|               |   |              |
|---------------|---|--------------|
| C.RAJASEKAR   | - | 731612114065 |
| K.SATHISH     | - | 731612114080 |
| S.SATHISH     | - | 731612114081 |
| D.THAMILARASU | - | 731612114091 |

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*


**DEPARTMENT OF MECHANICAL ENGINEERING**

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

**TIRUCHENGODE – 637 215**

**ANNA UNIVERSITY : CHENNAI 600 025**

**APRIL 2016**


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




**BONAFIDE CERTIFICATE**

Certified that this comprehension report " **EVALUATION AND ANALYSING THE MECHANICAL PROPERTIES OF NATURAL FIBER COMPOSITE PLATES** "is the bonafide work of " **C.RAJASEKAR (731612114065), K.SATHISH (731612114080), S.SATHISH (731612114081), D.THAMILARASU (731612114091)** " who carried out the comprehension work under my supervision.

SIGNATURE

  
**Dr. P.MURUGESAN, M.E., Ph.D**  
**HEAD OF THE DEPARTMENT,**  
Department of Mechanical  
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Submitted for the comprehension Examination held on 15.04.16

  
**INTERNAL EXAMINER**



TENSILE BEHAVIOUR OF FRICTION WELDED JOINTS  
OF SIMILAR AND DISSIMILAR ALUMINIUM ALLOYS

A. PROJECT REPORT

*Submitted by*

|                |              |
|----------------|--------------|
| PRASATH M      | 731612114057 |
| VIGNESHWARAN M | 731612114100 |
| PRABU S        | 731612114322 |
| SATHISHKUMAR R | 731612114331 |

*in partial fulfilment for the award of the degree*

*of*

BACHELOR OF ENGINEERING

*in*


MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

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APRIL 2016


  
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NAMAKKAL DISTRICT, TAMIL NADU.



ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report "TENSILE BEHAVIOUR OF FRICTION WELDED JOINTS OF SIMILAR AND DISSIMILAR ALUMINIUM ALLOYS" is the bonafide work of "PRASATH M (731611214057)" who carried out the project work under my supervision.

  
SIGNATURE

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

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Professor,

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SIGNATURE

Mr. K. VELUSAMY, M.E.,

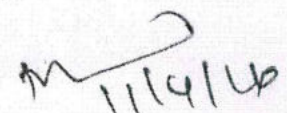
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Associate Professor,

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Submitted for the Project report Viva-Voce Examination held on 11.4.2016

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

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





सेल रिफ्रेक्टरी कम्पनी लिमिटेड, सेलम  
SAIL REFRACTORY COMPANY LIMITED, SALEM  
(A Govt. of India Enterprise)  
(A Subsidiary of Steel Authority of India Limited)

SRCL/P&A/2015/ In plant Trg/ 189/

CIN No.....

Dt. 16-12-2015

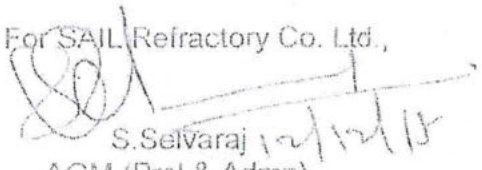
CERTIFICATE


It is hereby certified that the following Student has undergone In-plant Training in our company as per the details mentioned below:

Name : V.SURESH KUMAR  
Course of study : B.E(Mechanical)  
College : KSR Institute for Engineering and Technology.  
Namakkal -637 215  
Period : 07-12-2015 to 12-12-2015

During the above period, the student was sincere, industrious and evinced keen interest in the In-Plant Training.

For SAIL Refractory Co. Ltd.,

  
S. Selvaraj  
AGM (Prsl & Admn)

  
PRINCIPAL,  
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SAIL REFRACTORRY COMPANY LIMITED, SALEM  
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SRCL/P&A/2015/ In plant Trg/ 189/

CIN No.....

Dt. 16-12-2015

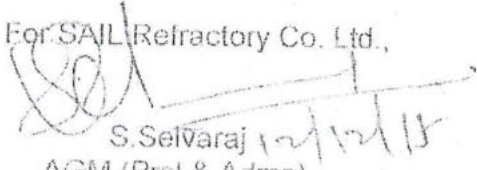
CERTIFICATE


It is heroby certified that the following Student has undergone In-plant Training in our company as per the details mentioned below:

Name : K.VIJAYA KUMAR  
Course of study : B.E(Mechanical)  
College : KSR institute for Engineering and Technology.  
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During the above period, the student was sincere, industrious and evinced keen interest in the In-Plant Training.

For SAIL Refractory Co. Ltd.,

  
S. Selvaraj  
AGM (Prsl & Admn)

  
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SAIL REFRACTORY COMPANY LIMITED, SALEM  
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(A Subsidiary of Steel Authority of India Limited)

SRCL/P&A/2015/ In plant Trg/ 189/

CIN No.....

Dt. 16-12-2015

CERTIFICATE

It is hereby certified that the following Student has undergone In-plant Training in our company as per the details mentioned below:

Name : B.SRIDHAR  
Course of study : B.E(Mechanical)  
College : KSR Institute for Engineering and Technology,  
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Period : 07-12-2015 to 12-12-2015

During the above period, the student was sincere, industrious and evinced keen interest in the In-Plant Training.

For SAIL Refractory Co. Ltd.,

S.Selvaraj  
AGM (Prsl & Admn)

PRINCIPAL,  
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SAIL REFRACTORRY COMPANY LIMITED, SALEM  
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(A Subsidiary of Steel Authority of India Limited)

SRCL/P&A/2015/ In plant Trg/ 189/

CIN No.....

Dt. 16-12-2015

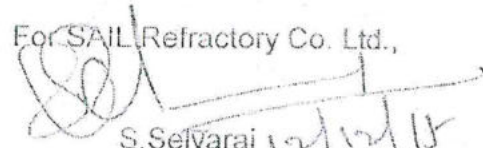
CERTIFICATE


It is hereby certified that the following Student has undergone In-plant Training in our company as per the details mentioned below:

Name : S.SOUNDAR RAJAN  
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During the above period, the student was sincere, industrious and evinced keen interest in the In-Plant Training.

For SAIL Refractory Co. Ltd.,

  
S. Selvaraj  
AGM (Prsl & Admn)

  
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SRCL/P&A/2015/ In plant Trg/ 189/

CIN No.....

Dt. 16-12-2015

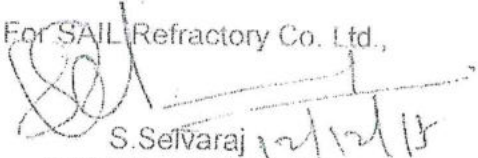
CERTIFICATE


It is hereby certified that the following Student has undergone In-plant Training in our company as per the details mentioned below:

Name : A.RAVI  
Course of study : B.E(Mechanical)  
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During the above period, the student was sincere, industrious and evinced keen interest in the In-Plant Training.

For SAIL Refractory Co. Ltd.,

  
S.Selvaraj  
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4

4 B 52

# FAILURE ANALYSIS OF GAS TURBINE BLADE

A PROJECT REPORT

*Submitted by*

|               |              |
|---------------|--------------|
| AZARUDEEN M   | 731612114010 |
| GUNASEKARAN S | 731612114025 |
| MOHINDAR M    | 731612114044 |
| NIRMAL S      | 731612114051 |

*In partial fulfillment for the award of the degree*

*of*

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**APRIL 2016**

  
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ANNA UNIVERSITY: CHENNAI 600025

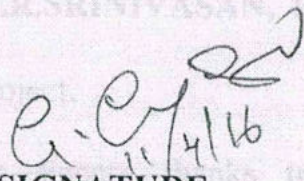
ACKNOWLEDGEMENT

BONAFIDE CERTIFICATE

Certified that this project report "Failure Analysis of Gas Turbine Blade" is the bonafide work of "AZARUDEEN M, GUNASEKARAN S, MOHINDAR M, NIRMAL S" who carried out the project work under my supervision.

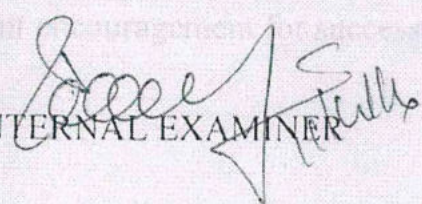
  
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HEAD OF THE DEPARTMENT,  
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INTERNAL EXAMINER

  
EXTERNAL EXAMINER

  
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5

B 24

# EXPERIMENTAL STUDY ON AN ENHANCED PERFORMANCE OF SOLAR WATER HEATER

A PROJECT REPORT

*Submitted by*

|                      |              |
|----------------------|--------------|
| H.SANJAY KUMAR YADAV | 731612114075 |
| M.SANTHOSH           | 731612114076 |
| S.VENGATESH          | 731612114095 |
| P.VIGNESWARAN        | 731612114101 |

*in partial fulfillment for the award of the degree*

*of*

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*in*


**MECHANICAL ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

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**ANNA UNIVERSITY: CHENNAI-600025**

**APRIL 2016**

  
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NAMAKKAL Dt, TAMIL NADU.**




**ANNAUNIVERSITY: CHENNAI 600025**

**BONAFIDE CERTIFICATE**

Certified that this project report "EXPERIMENTAL STUDY ON AN ENHANCED PERFORMANCE OF SOLAR WATER HEATER" is the bonafide work of "H.SANJAY KUMAR YADAV, M.SANTHOSH, S.VENGATESH, P.VIGNESWARAN" who carried out the project work under my supervision.

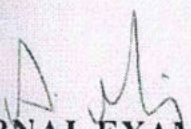
  
SIGNATURE

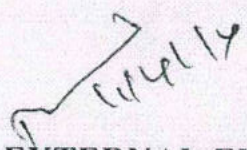
Dr.P.MURUGESAN,M.E.,Ph.D.,  
HEAD OF THE DEPARTMENT,  
Department of Mechanical Engineering,  
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Mr.R.VASANTHAKUMAR,M.E.,(Ph.D),  
SUPERVISOR,  
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Submitted for the University Project Viva Voice Examination held on...11.04.2016

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
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Private Limited  
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Chennai - 600 095  
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CIN No. U29141TN1984FTC010913

Ref: KEI: PER: PD: TRAINING: 2016


June 17, 2016

TO WHOMSOEVER IT MAY CONCERN


This is to certify that **Mr. AJITH KUMAR A** who is doing his Bachelor of Engineering (Mechanical) in KSR Institute for Engineering and Technology, Thiruchengode has completed his Internship from 30.05.2016 to 17.06.2016.

During this period his conduct was good and we wish him all the best for his future endeavor.

For KONE Elevator India Pvt Limited,

  
K. Anbukkarasu  
Manager – Employee Relations



  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
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K. S. R. KALVI NAGAR,  
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CIN No. U29141TN1984FTC010913

Ref: KEI: PER: PD: TRAINING: 2016


June 17, 2016

TO WHOMSOEVER IT MAY CONCERN


This is to certify that **Mr. VIGNESWARAN P** who is doing his Bachelor of Engineering (Mechanical) in KSR Institute for Engineering and Technology, Thiruchengode has completed his Internship from 30.05.2016 to 17.06.2016.

During this period his conduct was good and we wish him all the best for his future endeavor.

For KONE Elevator India Pvt Limited,

  
K. Anbukkarasu  
Manager – Employee Relations



  
PRINCIPAL,  
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ENGINEERING AND TECHNOLOGY,  
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TIRUCHENGOODE - 637 215,  
NAMAKKAL DL, TAMIL NADU.







Elevators Escalators  
KONE Elevator India  
Private Limited  
50 Vanagaram Road  
Ayanambakkam  
Chennai - 600 095  
Tel +91 44 26533901 (4 lines)  
Fax +91 44 26533912  
CIN No. U29141TN1984FTC010913

Ref: KEI: PER: PD: TRAINING: 2016


June 17, 2016

TO WHOMSOEVER IT MAY CONCERN


This is to certify that **Mr. VIGNESH B** who is doing his Bachelor of Engineering (Mechanical) in KSR Institute for Engineering and Technology, Thiruchengode has completed his Internship from 30.05.2016 to 17.06.2016.

During this period his conduct was good and we wish him all the best for his future endeavor.

For KONE Elevator India Pvt Limited,

  
K. Anandkarasu  
Manager – Employee Relations



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





87

B 2

**HEAT TRANSFER ENHANCEMENT TECHNIQUES IN  
DOUBLE PIPE HEAT EXCHANGER WITH INSERT OF V-  
CUT & POROUS TWISTED TAPE**

Submitted by

|                 |              |
|-----------------|--------------|
| KARTHICK RAJA A | 731612114029 |
| KRISHNAKUMAR P  | 731612114036 |
| NIJANTHAN N     | 731612114049 |
| ARUN R          | 731612114302 |

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*


**MECHANICAL ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**TIRUCHENGODE – 637 215**

**ANNA UNIVERSITY: CHENNAI 600 025**

**APRIL 2016**

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



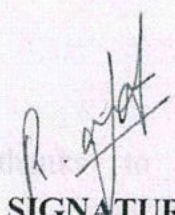
ANNA UNIVERSITY : CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report "HEAT TRANSFER ENHANCEMENT TECHNIQUES IN DOUBLE PIPE HEAT EXCHANGER WITH INSERT OF V-CUT & POROUS TWISTED TAPE" is the bonafide work of "A.KARTHICK RAJA, P.KRISHNAKUMAR, N.NIJANTHAN, R.ARUN" who carried out the project work under my supervision.

  
SIGNATURE

Dr. P.MURUGESAN, ME., Ph.D.  
Head of the Department,  
Department of Mechanical Engineering,  
KSR Institute for Engineering  
and Technology,  
Tiruchengode – 637 215.


  
SIGNATURE

Mr. R.SURENDRAN, ME.  
Supervisor,  
Assistant Professor,  
Department of Mechanical  
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Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 11-04-2016

  
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.



8

C 3 24

# MODELLING AND ANALYSIS OF SINGLE PLATE CLUTCH

A PROJECT REPORT

*Submitted by*

|                  |              |
|------------------|--------------|
| T. CHANDIRASUDAN | 731612114013 |
| V. DHANAPAL      | 731612114016 |
| K. MATHAN KUMAR  | 731612114041 |

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**


*in*

**MECHANICAL ENGINEERING**

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

**ANNA UNIVERSITY : CHENNAI 600 025**

APRIL 2016

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



**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "MODELLING AND ANALYSIS OF SINGLE PLATE CLUTCH" is the bonafidework of " T. CHANDIRASUDAN, V. DHANAPAL, K. MATHAN KUMAR " who carried out the project work under my supervision.

  
SIGNATURE

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

**HEAD OF THE DEPARTMENT**

Dept. of Mechanical Engineering

K.S.R Institute for Engineering and  
Technology.

Tiruchengode -637 215.

  
SIGNATURE

A. PREMKUMAR, M.E.,

**SUPERVISOR**

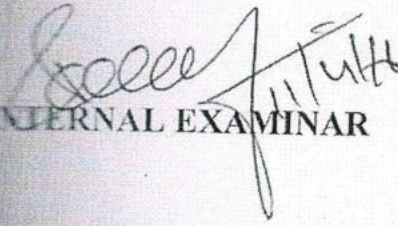
Assistant professor

Dept. of Mechanical Engineering

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Tiruchengode -637 215.

Submitted for the project report vivo-voce Examination held on .11.04.2016

  
INTERNAL EXAMINAR

  
EXTERNAL EXAMINAR

ii

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



9.

1 B 47

**Design and Analysis of Automotive Silencer for Effective  
Corrosion Control**

**A PROJECT REPORT**

*Submitted by*

|                |              |
|----------------|--------------|
| DINESH R       | 731612114017 |
| GANESH KUMAR R | 731612114018 |
| GOPINATH M     | 731612114020 |
| JAGADEESH R R  | 731312114026 |

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**MECHANICAL ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY  
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**ANNA UNIVERSITY: CHENNAI 600025**

**APRIL 2016**

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



ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND ANALYSIS OF AUTOMOTIVE SILENCER FOR EFFECTIVE CORROSION CONTROL" is the bonafide work of "DINESH.R (731612114017), GANESH KUMAR.R (731612114018), GOPINATH.M(731612114020), JAGADEESH R.R (731612114026)" who carried out the project work under my supervision.

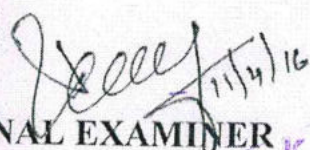
  
SIGNATURE,

Dr.P.MURUGESAN,M.E.,Ph.D.,  
HEAD OF THE DEPARTMENT,  
Professor,  
DEPARTMENT OF MECHANICAL  
ENGINEERING,  
K.S.R INSTITUTE FOR  
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TIRUCHENGODE-637215.

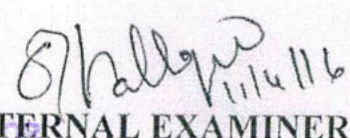
  
SIGNATURE,

Mr.S.RAJKUMAR ,M.E.,  
SUPERVISOR,  
Assistant Professor,  
DEPARTMENT OF MECHANICAL  
ENGINEERING,  
K.S.R INSTITUTE FOR  
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Submitted for the Project report Viva-Voce Examination held on 11/4/2016

  
INTERNAL EXAMINER



  
EXTERNAL EXAMINER

PRINCIPAL  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,



DESIGN AND FABRICATION OF PNEUMATIC  
MULTIPURPOSE MACHINE AND MACHINE VICE

A COMPREHENSION REPORT

*Submitted by*

|                  |              |
|------------------|--------------|
| PUSHPARAJ.N      | 731612114325 |
| SARAVANAN.K      | 731612114329 |
| SIVASHANKAR.P    | 731612114334 |
| SATHIYAMOORTHY.R | 731612114702 |


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

BACHELOR OF ENGINEERING  
in  
MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY  
TIRUCHENGODE – 637 215

ANNAUNIVERSITY: CHENNAI 600025

APRIL 2016

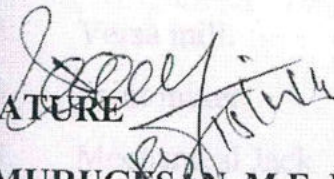
  
 PRINCIPAL,  
 K. S. R. INSTITUTE FOR  
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 K. S. R. KALVI NAGAR,  
 TIRUCHENGODE - 637 215,  
 NAMAKKAL Dt, TAMIL NADU.




ANNA UNIVERSITY: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this comprehension report "DESIGN AND FABRICATION PNEUMATIC MULTIPURPOSE MACHINE AND MACHINE VICE" is the bonafide work of "PUSHPARAJ.N, SARAVANAN.K, SIVASHANKAR.P, SATHIYAMOORTHY.R" who carried out the comprehension work under my supervision.

  
SIGNATURE  
Dr.P.MURUGESAN, M.E.,Ph.D.,  
HEAD OF THE DEPARTMENT,  
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SIGNATURE  
Mr. M.AMARNATH M.E.  
ASSISTANT PROFESSOR,  
Department of Mechanical Engineering,  
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Submitted for the comprehension report Viva-Voce Examination held on  
15.04.2015.

  
INTERNAL EXAMINER

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



**DESIGN AND ANALYSIS OF  
METHANE POWERED ROCKET ENGINE**

**A PROJECT REPORT**

*Submitted by*

|                          |                     |
|--------------------------|---------------------|
| <b>R.CHANDRASEKARAN</b>  | <b>731612114014</b> |
| <b>S.P.GOKUL RAJ</b>     | <b>731612114019</b> |
| <b>D.MANOJ KUMAR</b>     | <b>731612114040</b> |
| <b>R.NAVEEN PRASANTH</b> | <b>731612114048</b> |

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

*Of*

**BACHELOR OF ENGINEERING**


*In*

**MECHANICAL ENGINEERING**

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

**ANNA UNIVERSITY: CHENNAI 600 025**

**APRIL 2016**

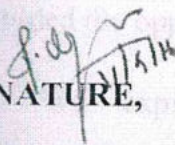
  
**PRINCIPAL,  
K. S. R. INSTITUTE FOR  
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K. S. R. KALVI NAGAR,  
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NAMAKKAL Dt, TAMIL NADU.**



**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

This is to certify that the project report entitled "DESIGN AND ANALYSIS OF METHANE POWERED ROCKET ENGINE" is the bonafide record work done by "S.P.GOKULRAJ, R.CHANDRASEKARAN, R.NAVEEN PRASANTH and D.MANOJ KUMAR" who carried out the project under my supervision.

  
SIGNATURE,

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

HEAD OF THE DEPARTMENT,

DEPARTMENT OF MECHANICAL  
ENGINEERING,

K.S.R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

TIRUCHENGODE-637215

  
SIGNATURE,

Mr.M.AMARNATH ,M.E.,

SUPERVISOR,

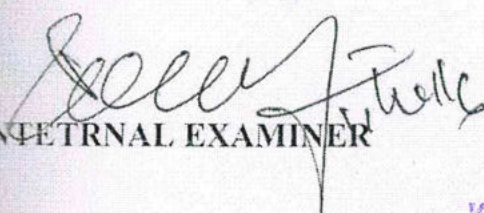
DEPARTMENT OF MECHANICAL  
ENGINEERING,

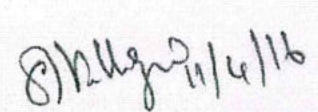
K.S.R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

TIRUCHENGODE-637215

Submitted for the 8<sup>th</sup> semester Viva-Voce Examination held on 11.4.2016

  
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 FABRICATION OF  
DIAMOND DRILLING MACHINE**

**(ALONG 360 DEGREE)**

**A PROJECT REPORT**

*Submitted by*

**RANJITHKUMAR S (731612114068)**

**SIVAKUMAR R (731612114086)**

**SURESH P (731612114089)**

**VINOTHKUMAR N (731612114102)**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*


**DEPARTMENT OF MECHANICAL ENGINEERING**

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

**TIRUCHENGODE**

**ANNA UNIVERSITY::CHENNAI 600 025**

**APRIL 2016**


  
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 "DESIGN AND FABRICATION OF DIAMOND DRILLING MACHINE (ALONG 360 DEGREE)" is the bonafide work of "RANJITHKUMAR.S (731612114068), SIVAKUMAR.R (731612114086), SURESH.P (731612114089), VINOTHKUMAR.N (731612114102)" who carried out the project work under my supervision.

  
SIGNATURE,

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

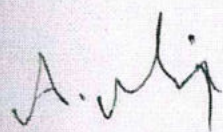
DEPARTMENT OF MECHANICAL  
ENGINEERING,  
K.S.R INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY,  
TIRUCHENGODE-637215.


  
SIGNATURE,

Dr.RAJARAM NARAYANAN,M.E.,Ph.D.,  
SUPERVISOR,  
Professor

DEPARTMENT OF MECHANICAL  
ENGINEERING,  
K.S.R INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY,  
TIRUCHENGODE-637215.

Submitted for the Project report Viva-Voce Examination held on 11.04.2016

  
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.





# 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

### B.Tech. – Information Technology

| S. No. | Name of the Course                        | Course Code | Name of the students   | Page No. |
|--------|---|-------------|--|----------|
| 1.     | Object Oriented Analysis and Design       | CS6502      | Ganesan M  | 152-153  |
| 2.     | Case Tools Laboratory                     | IT6513      | Kumar V  |          |
| 3.     | Web Programming                           | IT6503      | Dineshraj R  | 154-156  |
| 4.     | Web Programming Laboratory                | IT6512      | Aadhavan R<br>Sarath Kumar C                                       |          |
| 5.     | Mobile Computing                          | IT6601      | Hemasruthi A   | 157      |
| 6.     | Mobile Application Development Laboratory | IT6611      | Kesavamoorthy T<br>Santhanagopalakrishnan B<br>Sowndharya S        |          |
| 7.     | Cryptography and Network Security         | CS6701      | Bhuvanieswari J<br>Jayesh Kumar Surana M                           | 158      |
| 8.     | Security Laboratory                       | IT6712      | Prabha M<br>Sumithra S   |          |
| 9.     | Data Warehouse and Data Mining            | IT6702      | Ashok Kumar R  | 159      |
| 10.    | Data Mining Laboratory                    | IT6711      | Gopinath D<br>Kamal M<br>Karthik E R                               |          |
| 11.    | Project Work                              | IT6811      | Arun Prasanth A<br>Kasushik Prabhu M<br>Karthikeyan S<br>Prakash V | 160      |
| 12.    | Grid and Cloud Computing                  | CS6703      | Monisha S<br>Sangavi R   | 161      |
|        | Grid and Cloud Computing Laboratory       | IT6713      | Sathya Shree K<br>Vennila A  |          |



CERTIFICATE OF COMPLETION

This is to certify that

CANESON M

19.12.2015 to 24.12.2015

in the presence of the trainee

Signed



PRINCIPAL  
K. S. H. MURTHY  
ENGINEER  
GOVT. ENGINEERING COLLEGE  
MADURAI

Project Manager



2015 (1811111)

DECLARATION OF COMPLETION

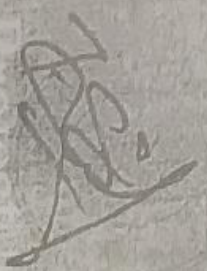
Kumar V

19.12.2015

24.12.2015

Good

PRINCIPAL  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY  
K. S. R. KOTHAGUDDA  
TIRUCHENGOORUR - 627211  
TAMIL NADU





DATE OF COMPLETION

DINESHRAJ P.

19.12.2015 TO 21.12.2015

GPOD

PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. GALVAJANAGAR,  
THIRUCHENAI, 637 215  
TAMIL NADU

*[Handwritten Signature]*



2001-2016 © K.R.H.L.P.

CERTIFICATE OF COMPLETION

This is to certify that

AADHIVAN R.

has completed training from

19.12.2015

to

24.12.2015

Good

Principal,

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVINAGAR,

TIRUCHENGODE - 637 215,

NAMAKKAL Dt. TAMIL NADU

Project Manager



CERTIFICATE OF COMPLETION

19.12.2015 to 24.12.2015

SURESH KUMAR

GROUP

PRINCIPAL,  
K.S. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. CAMPUS,  
TRUCHENKODE - 607 015,  
NAMAKKAL DISTRICT, TAMIL NADU.

Project Manager



This is to certify that the Project entitled

## E-CATALOGUE FOR ELECTRONIC GADGETS

is the bonafide record of the project work done by

HEMASRUTHI A (731613205013)

KESAVAMOORTHY T (731613205020)

SANTHANAGOPALA  
KRISNAN B (731613205034)

SOWNDHARYA S (731613205040)

of B.Tech.-Information Technology during the year 2016-17.

*[Signature]*

Supervisor

*[Signature]*

Head of the Department

Submitted for the Project Viva-Voce examination held on 10.04.2017

*[Signature]*  
Internal Examiner

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

*[Signature]*  
External Examiner



**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

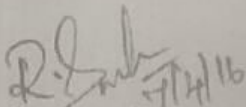
This is to certify that the Project entitled

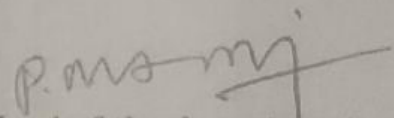
**E-MAGAZINE**

is the bonafide record of the project work done by

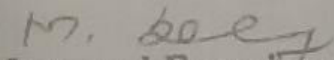
**BHUVANIESWARI.J** (731612205007)  
**JAYESH KUMAR SURANA.M** (731612205015)  
**PRABHA.M** (731612205034)  
**SUMITHRA.S** (731612205056)

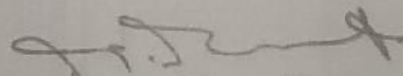
of B. Tech.-Information Technology during the year 2015-16.


  
Supervisor

  
Head of the department

Submitted for the Project Viva-Voce examination held on 11.4.16

  
Internal Examiner

  
External Examiner

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



ANNA UNIVERSITY::CHENNAI 600 025

**BONAFIDE CERTIFICATE**

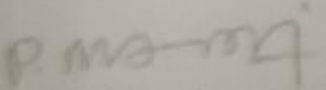
*This is to certify that the Project entitled*

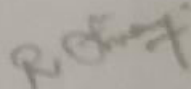
**DATA LEAKAGE DETECTION**

*is the bonafide record of the project work done by*


|               |              |
|---------------|--------------|
| R.ASHOK KUMAR | 731612205003 |
| D.GOPINATH    | 731612205010 |
| M.KAMAL       | 731612205016 |
| E.R.KARTHIK   | 731612205018 |

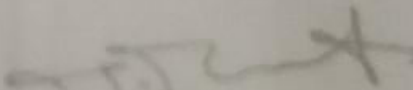
*of B.Tech.-Information Technology during the year 2015-16*


  
Head of the department

  
Supervisor

*Submitted for the Project Viva-Voce examination held on 11.4.2016*

  
Internal Examiner

  
External Examiner

  
PRINCIPAL  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY  
K. S. R. SALUS  
TRICHENGOOR-66  
NAMBIAL DA, TAMIL NADU



**BONAFIDE CERTIFICATE**

This is to certify that the Project entitled  
**INTEGRATED ONLINE BANKING SYSTEM**

is the bonafide record of the project work done by

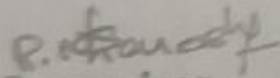
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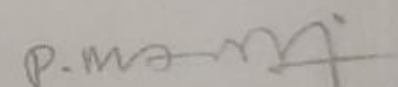
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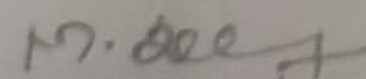
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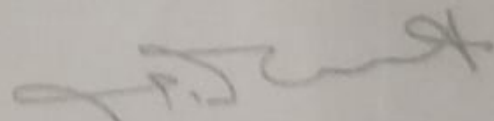
of B.Tech.-Information Technology during the year 2015-16


  
Supervisor

  
Head of the department

Submitted for the Project Viva-Voce examination held on 11/4/2016

  
Internal Examiner

  
External Examiner

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



ANNA UNIVERSITY::CHENNAI 600 025

**BONAFIDE CERTIFICATE**

This is to certify that the Project entitled

**SECURE DATA RETRIEVAL IN ENCRYPTED  
CLOUD DATA USING RANKING BASED  
SEARCH TECHNIQUE**

is the bonafide record of the project work done by

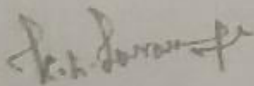
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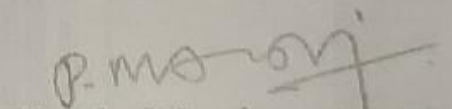
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**SATHYA SHREE.K** (731612205051)

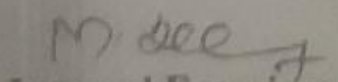
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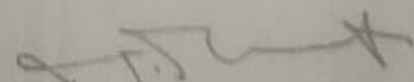
of B.Tech.-Information Technology during the year 2015-16


  
Supervisor

  
Head of the department

Submitted for the Project Viva-Voce examination held on 11.04.2016

  
Internal Examiner

  
External Examiner

  
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