

# Jyothi Engineering College

NAAC Accredited College with ISO Accredited programmes

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

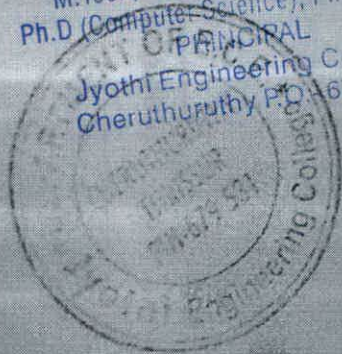
This is to certify that the report entitled " SMART MEDICARE " submitted by MUBASHIRA K.M.(JEC16EC056), OLIVIA NELSON(JEC16EC065), PRASOBH K.P.(JEC16EC070), SANDHRA S.(JEC16EC081) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*Sunny*  
**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. 679 531

*[Signature]*  
**Mr. Anesh K.J.**

**Assistant Professor  
Internal Supervisor**

*[Signature]*  
**Dr. Jose P. Therattil**  
**Associate Professor  
Head of the Department**



# Jyothi Engineering College

NAAC Accredited college with NBA Accredited programmes


## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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ESTD 2002

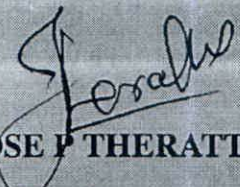
### CERTIFICATE

This is to certify that the report entitled " BORE WELL RESCUE ROBOTIC SYSTEM " submitted by SAJIN SHAJI(JEC16EC080), SHAHLA P MOHAMMED(JEC16EC086), SREERAG K M(JEC16EC092), SUCHITHRA T S(JEC16EC097) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **ELECTRONICS & COMMUNICATION ENGINEERING** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
**M DIPIN KRISHNAN R**  
Assistant Professor  
Internal Supervisor

  
**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Phil, Ph.D (Computer Science)



  
**Dr. JOSE P THERATTIL**  
Professor  
Head of the Department

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



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ESTD 2002

### CERTIFICATE

This is to certify that the report entitled " **LANDSLIDE DETECTION USING PIEZOELECTRIC EFFECT** " submitted by MANU JENSON (JEC16EC052), ROSHNI J NAIR (JEC16EC077), SRUTHISHA SASI (JEC16EC096), VISHNU V (JEC16EC101) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*Roshni*  
*12/01/20*  
Dr. SUNNY JOSEPH KALAIYANDANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Kuthuvayal, Kollam

*Roshni*  
Ms ROSHNI RAJAN  
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*Jose P Therattil*  
Dr JOSE P THERATTIL  
Associate Professor  
Head of the Department



## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING




CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE


This is to certify that the report entitled " **INTELLIGENT SECURITY SYSTEM** " submitted by MUHAMMED ARSHAD(JEC16EC057), NANDANA K(JEC16EC058), SWETHA SARA GEORGE(JEC16EC098) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, D.Ed  
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Ms. Annie P. Joseph  
Associate Professor  
Internal Supervisor



  
Dr. Jose P. Therattil  
Associate Professor  
Head of the Department

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE


This is to certify that the report entitled " **BABY CARE-INFANT CONDITION MONITORING AND ALERT SYSTEM** " submitted by SAFNA M(JEC16EC079), SARANYA M NAIR(JEC16EC083), SIBIN KRISHNA C(JEC16EC089), VISHNU K(JEC16EC099) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Ms. Sindhu S

Associate Professor  
In-charge Supervisor

  
Dr. SUNNY JOSEPH  
M.Tech. MCA  
Ph.D (Computer)



  
Dr. Jose P Therattil  
Professor

Head of the Department

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled " **AGNI-THE FIRE EXTINGUISHING ROBOT** " submitted by LANA KOLLATH(JEC16EC051) , MARY JEETHU A J(JEC16EC055) , and PRANAV P(JEC16EC069) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*Sunny Joseph Kalayathankal*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
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*Neethu*  
Ms. Neethu Rose Thomas  
Assistant Professor  
Internal Supervisor

*Jose P Therattil*  
Dr. Jose P Therattil.  
Associate Professor  
Head of the Department



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LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled " WIRELESS DRONE NETWORK " submitted by MAREENA MARIYA ABRAHAM(JEC16EC053), MARIAN DAVIS KATTUKARAN(JEC16EC054), VISHNU PRAKASH(JEC16EC100), CHRISTEENA PAULSON(LJEC16EC102) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*[Signature]*  
Dr. SUNNY JOSEPH KALAYATHILAKAL  
M.Tech, MCA, M.Sc  
Ph.D (Computer Science) (Kerala)

PRINCIPAL

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Changanassery - 686031

*[Signature]*  
Mr. Ponmani Raja M  
Assistant Professor  
Internal Supervisor



*[Signature]*  
Dr. Jose P Therattil  
Associate Professor  
Head of the Department

# Jyothi Engineering College

NAAC Accredited college with IET Accredited programmes

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled " **VMD BASED SLEEP APNEA DETECTION USING PPG SIGNAL** " submitted by NIMISHA TONY(JEC16EC063), RADHIKA(JEC16EC073), SHAMSEENA T A(JEC16EC087), SREERAG V V(JEC16EC094) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by her under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*Nimisha*  
DR. SUNNY JOSEPH KALAYATHONKAL  
M.Tech, MCA, M.Sc, M.Phil, Ph.D (Computer Science) (Anna)  
PRINCIPAL

For *Neetha*

Mr. Rijo P C

Assistant Professor  
Internal Supervisor

Jyothi Engineering College  
Cheruthuruthy P.O., Kollam



*Jose P Therattil*  
Dr. Jose P Therattil

Associate Professor  
Head of the Department



# Jyothi Engineering College

VAAC Accredited college with 1491 Accredited programmes

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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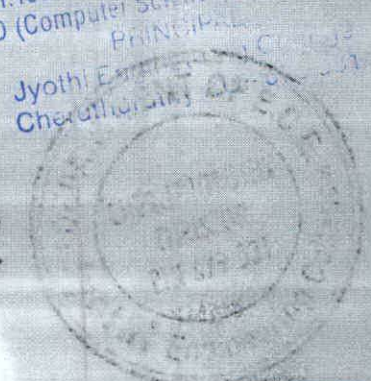
### CERTIFICATE

This is to certify that the report entitled " SECURE ON-CHIP COMPARISON " submitted by AMITH T V(JEC16EC011), ANJANA K G(JEC16EC013), CHITHRA A B(JEC16EC030), GREESHMA K(JEC16EC041) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*Handwritten signature in green ink*  
Dr. SUNNY JOSEPH KALAYATHILKAL  
M.Tech, MCA, M.Sc. in EEE  
Ph.D (Computer Science) Pr. Assistant  
Principal

*Handwritten signature in black ink*

Ms.Shiny M I  
Associate Professor  
Internal Supervisor



*Handwritten signature in black ink*

Dr. Jose P. Therattil  
Professor  
Head of the Department

# Jyothi Engineering College

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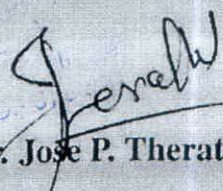
### CERTIFICATE

This is to certify that the report entitled " A COMMUNICATION AID FOR DEAF AND MUTE " submitted by NITHIN MOHAN( JEC16EC064), RINOSHA K R( JEC16EC074) and SREELAKSHMI R( JEC16EC091) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Dr. Anoop V

Associate Professor  
Internal Supervisor

  
Dr. SUNNY JOSEPH KALAYATHIRAL  
M.Tech, MCA (MCA)  
Ph.D (Computer Science)  
Jyothi Engineering College  
Chennai

  
Dr. Jose P. Therattil  
Associate Professor  
Head of the Department



# Jyothi Engineering College

APJ Abdul Kalam Technological University, Thrissur

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled " **MODELING AND ANALYSIS OF FINFET WITH GRADED FIN WIDTH** " submitted by AMARNATH K R(JEC16EC010), JISHNU V NAIR(JEC16EC044), JULIT THOMAS(JEC16EC047), LAKSHMI P(JEC16EC050) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*Sunny Joseph*  
Dr. SUNNY JOSEPH KALAYATHIL  
M.Tech, MCA, M.Phil  
Ph.D (Computer Science)

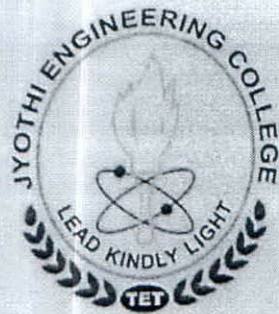
*For Head*  
Dr. RIJO P C

Assistant Professor  
In-charge Supervisor



*Jose P. Therattil*  
Dr. Jose P. Therattil  
Associate Professor  
Head of the Department

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled " **BRAIN TUMOR DETECTION USING IMAGE FUSION** " submitted by AVIN K.V(JEC16EC022), BASIM MEHER(JEC16EC023), DEEPAK KRISHNAN (JEC16EC031), FATHIMATH NIHALA(JEC16EC037) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

**Ms. Sindhu S**  
Associate Professor  
Internal Supervisor



*Aomay*  
Dr. SUNNY JOSEPH  
M.Tech

**Dr. Jose P. Therattil**  
Professor  
Head of the Department

# Jyothi Engineering College

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DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2007

## CERTIFICATE

This is to certify that the report entitled "SIGN TO SPEECH FOR INARTICULATE" submitted by AJAY T S(JEC16EC005), BINITHA P B(JEC16EC027), FEBIN RINSON KANNUKADAN(JEC16EC038), GILNA JOY(JEC16EC040) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electronics & Communication Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*Sunny*  
Dr. SUNNY JOSEPH KALAYATHIANKAL  
M.Tech, MCA, M.B.A., Ph.D (Ed)  
Ph.D (Computer Science)

Jyothi  
Cheruvu

*Dipinkrishnan R*  
Mr. Dipinkrishnan R  
Assistant Professor  
Internal Supervisor



*Jose P. Therattil*  
Dr. Jose P. Therattil  
Professor  
Head of the Department

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled “ **BRILLE DISPLAY USING PUSH-PULL SOLENOID FOR GRAPHIC REPRESENTATION** ” submitted by AMAL PREM(JEC16EC008), ANU ANTO(JEC16EC014), ARCHANA CHANDRAPRAKASH(JEC16EC017), DIVIJ K SAJAN(JEC16EC034) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*Amaly*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
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Ms. AMBILY FRANCIS

Assistant Professor  
Internal Supervisor



*Jose P. Therattil*  
DR. JOSE P. THERATTIL  
Associate Professor  
Head of the Department

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled " DESIGN OF AN INTELLIGENT GUIDING ASSISTANCE FOR VISUALLY IMPAIRED" submitted by BESY T.B (JEC16EC025), CHINMAYI G PANICKER (JEC16EC029), DIVINE MATHEW (JEC16EC035), FREDRICH FRANCIS (JEC16EC039) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*aman*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, Ph.D (Computer Science, Physics) PRINCIPAL

Jyothi Engineering College  
Cheruthuruthy

Ms. Annie P Joseph  
Associate Professor  
Internal Supervisor

Dr. Jose P Therattil  
Associate Professor  
Head of the Department



# Jyothi Engineering College

U.P.U. Accredited college with AICTE Accredited programmes


DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING




CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD-2002

## CERTIFICATE

This is to certify that the report entitled " HIGHLY DIRECTIVE AUDIO SPEAKER USING ULTRASONIC TRANSDUCER PARAMETRIC ARRAY FOR HOME-THEATRE APPLICATION " submitted by AISWARYA K.N. (JEC16EC004), AMAL UNNIKRISHNAN (JEC16EC009), ASHILA MATHEWS (JEC16EC019), BHUVANESH S.S. (JEC16EC026) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electronics & Communication Engineering is a bonafide record of the project work carried out by them under my guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Ms. Roshni Rajan K  
Assistant Professor  
Internal Supervisor

  
Dr. SUNNY JOSEPH KALAMATHUMKAL  
M.Tech, MCA, M.Sc.  
Ph.D (Computer Science)  
PH.D.  
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Dr. Jose P Therattil  
Associate Professor  
Head of the Department



# Jyothi Engineering College

UAC Accredited college with 100% Accredited programmes

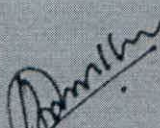
## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



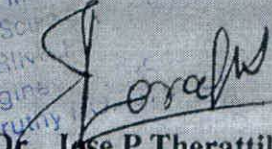
CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled " SMART WATER QUALITY MONITORING AND METERING USING LORA " submitted by AJITH ANTONY (JEC16EC006), Anagha Rajeev(JEC16EC012), Johnson P (JEC16EC045), Kavya Sunil(JEC16EC049) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Ms Bindhu K Rajan  
Assistant Professor  
Internal Supervisor

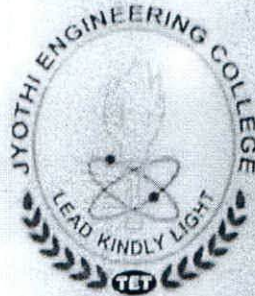


*Roman*  
*Dr. Sunny Joseph Kalayathankal*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc. R. Jyothi  
Ph.D (Computer Science)  
PRIN. Jyothi Engineering College  
Cheruthuruthy  
  
Dr. Jose P Therattil  
Associate Professor  
Head of the Department

# Jyothi Engineering College

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled “ **ALGAN-GAN HEMT FOR HIGH POWER APPLICATIONS** ” submitted by ADRIAN GEORGE(JEC16EC002), ANU MARIYA VINCENT(JEC16EC015), ATHIRA K(JEC16EC020), CATHERINE C JEJO(JEC16EC028) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*[Signature]*  
Dr. SUNNY JOSEPH KALATHANKAL  
M.Tech, MCA, M.Sc  
Ph.D. (Computer Science)  
FRANCIS  
Jyothi Engineering College  
Kuthuvayal

**Dr. Prajoon P.**  
Assistant Professor  
Internal Supervisor



*[Signature]*  
**Dr. Jose P. Therattil**  
Associate Professor  
Head of the Department

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled “ **TOP GATED GRAPHENE FIELD EFFECT TRANSISTOR FOR HIGH FREQUENCY PERFORMANCE** ” submitted by PAVITHRA P(JEC16EC066), RIYA ALBERT(JEC16EC075), SHARAN SHASHINDRAN A(JEC16EC088) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

**Dr. Prajoon P.**  
Assistant Professor  
Internal Supervisor

*Handwritten signature in green ink*  
Dr. SUNNY JOSEPH KALAYATHAN  
M.Tech, MCA, M.Sc, M.Phil, Ed  
Ph.D (Computer Science), Ph.D (Maths)



**Dr. Jose P. Therattil.**  
Associate Professor  
Head of the Department


## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

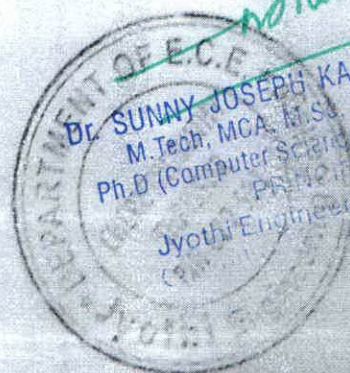


CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2007


### CERTIFICATE

This is to certify that the report entitled " TWO WAY COMMUNICATION SYSTEM FOR BLIND USING MORSE CODE " submitted by POOJA P(JEC16EC068), PRIYA K(JEC16EC072), SARATH RAJ(JEC16EC084) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electronics & Communication Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
**Ms. Drisya M K**  
Assistant Professor  
Internal Supervisor



*Sunny*  
**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, B.Ed,  
Ph.D (Computer Science), Ph.D (Management)  
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Jyothi Engineering College

  
**Dr. Jose P Therattil.**  
Associate Professor  
Head of the Department

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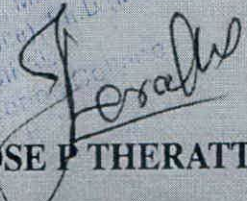
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Mr. DIPIN KRISHNAN R

Assistant Professor  
Internal Supervisor



*Sunny*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science) (U.D. N. Matsy)  
Principal, Jyothi Engineering College  
Chief Executive Officer

  
Dr. JOSE P THERATTIL  
Professor  
Head of the Department


**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**



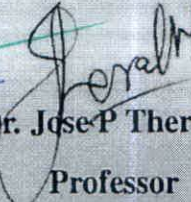
CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

**CERTIFICATE**

This is to certify that the report entitled " **SECURE SCAN DESIGN USING SCRAMBLING TECHNIQUE** " submitted by P DHANYA RAJ(JEC16EC067), PRINCE BENNY(JEC16EC071), SANGAMITHRA(JEC16EC082), SHAHAN FATHIMA(JEC16EC085) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Ms. Shiny M I  
Assistant Professor  
Internal Supervisor



  
Dr. Jose P Therattil  
Professor  
Head of the Department

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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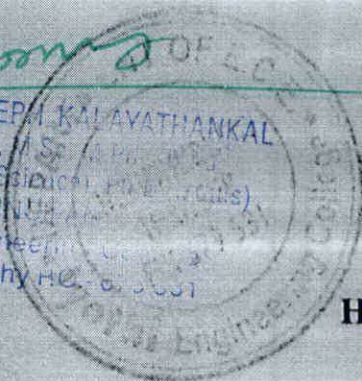
### CERTIFICATE

This is to certify that the report entitled " **PLANT DISEASE DETECTION AND DIAGNOSIS USING DCNN** " submitted by AKHILA KRISHNAKUMAR(JEC16EC007), INDUJA(JEC16EC043), JOSEPH PB(JEC16EC046), KARTHIKA VIJAYAKUMAR(JEC16EC048) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*Jyothi*  
**Mr. Jinesh K.J**  
Assistant Professor  
Internal Supervisor

*DOING*  
**SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, JSS  
Ph.D (Computer Science)  
Principal  
Jyothi Engineering College  
Cheruthuruthy H.O. 680301

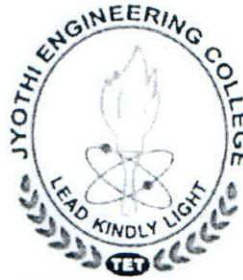
*Joseph*  
**Dr. Jose Tharattil.**  
Associate Professor  
Head of the Department



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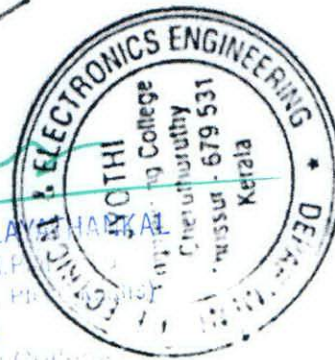
This is to certify that the report entitled " ASSISTIVE CHARGING METHOD OF ELECTRIC VEHICLE " submitted by GIYO GEORGE K(JEC16EE026), HAYMA RAHMATH(JEC16EE031), JISBI GEORGE P(JEC16EE034), JOSEPH P K(JEC16EE038) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electrical & Electronics Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Mr. JITHIN K JOSE

Assistant Professor

Internal Supervisor

Dr. JITHIN K JOSE  
M.Tech, MCA, M.Sc, M.P  
Ph.D (Computer Science)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.- 679 531



Dr. Jirin T.

Associate Professor

Head of the Department



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### CERTIFICATE

This is to certify that the report entitled "AUTOMATED WASTE SEGREGATOR" submitted by AKHIL JAMES K.(JEC16EE003), EDWIN JOSEPH C.(JEC16EE023), JERIN M.S.(JEC16EE032), RAHUL KRISHNA P.(LJEC16EE065) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electrical & Electronics Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Mr. JITHIN K. JOSE

Assistant Professor

Internal Supervisor

Dr. SURESH JOSEPH KALAYAN  
M.Tech, MCA, M.Sc, M.Phil  
Ph.D (Computer Science), P.H.D  
PRINCIPAL

Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531



Dr. Jatin T.

Associate Professor

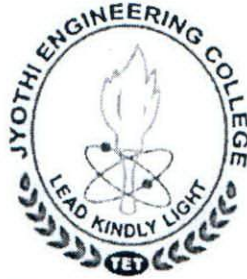
Head of the Department



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### CERTIFICATE

This is to certify that the report entitled " HEALTH CARE MANAGEMENT THROUGH ROBOT " submitted by ANEENA C.S.(JEC16EE010), GOPIKA MADHUSUDHANAN NAIR(JEC16EE028), JIZON S. ARAKKAL(JEC16EE035), JUWIN JOSE MANJILA(JEC16EE041) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electrical & Electronics Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Dr.   
Dr. SUNNY JOSEPH KALAYATHANKAL

M.Tech, MCA, M.Sc, M.Phil, B.Ed

Ph.D  
Ph.D (Computer Science), Ph.D (M.Tech)

Principal

Jyothi Engineering College

Changanassery P.O.

Dr. Nisha P. V.

Assistant Professor  
Internal Supervisor



  
Dr. Jatin I.

Associate Professor  
Head of the Department

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### CERTIFICATE

This is to certify that the report entitled " HIGH EFFICIENCY SINGLE PHASE INVERTER DESIGN " submitted by SNIJA JOY , T.P.NIVED, VINAYAK M.P. ,VISMAYA PRADEEP to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electrical & Electronics Engineering** is a bonafide record of the Interim project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Internal Supervisor

Mr. Kapildas K.S.

Asst. Professor

Dr. SONY JOSE  
M.Tech, MCA, M.Sc, M.Phil  
Ph.D (Computer Science), Ph.D  
PRINCIPAL  
Jyothi Engineering College  
Cheeruruthy P.O.-679 531

Head of the Department

Dr. Jeyanthi T.  
Assoc. Professor

# Jyothi Engineering College

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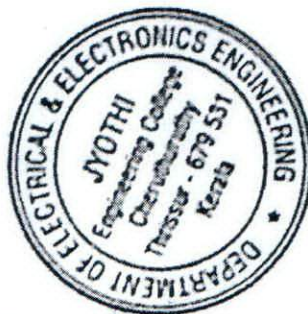
CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

## CERTIFICATE

This is to certify that the report entitled " INTELLIGENT CIRCUIT ENHANCER " submitted by GOUTHAM C S(JEC16EE029), JEWEL MAXWELL(JEC16EE033), JOHN JOSE(JEC16EE036) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electrical & Electronics Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


  
Mr. Jerson Jose

Assistant Professor  
Internal Supervisor





Dr. Jarin T.  
Associate Professor  
Head of the Department

  
Dr. Sunny Joseph Kalayattil  
M.Tech, MCA, M.Sc. (Maths)  
Ph.D (Computer Science) (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy Kerala 679 531

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ESTD 2007


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LEADERS OF TOMORROW  
ESTD 2007

## CERTIFICATE

This is to certify that the report entitled " INTERLINKING OF TYRE CURING PRESS AND POST CURE INFLATION THROUGH WIRELESS COMMUNICATION " submitted by ABIN ANTO(JEC16EE001), ALLAN THOMAS(JEC16EE008) and ARJUN KRISHNADAS(JEC16EE014), to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Electrical & Electronics Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
**Mr. Akhil A. Balakrishnan**  
Assistant Professor  
Internal Supervisor

  
**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, E Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.- 679 531

  
**Dr. Idin T.**  
Associate Professor  
Head of the Department

# Jyothi Engineering College

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 1984-1985  
 1985-1986

## CERTIFICATE

It is hereby that the report entitled "PLC BASED HANDSAW AUTOMATION" submitted by ALWIN SATHISH (10120000), ATHISA P ARJUN (10120001), ANISH PATE (10120002), ANATHY K (10120003) in the API Aludai Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electrical & Electronics Engineering is a sincere result of the project work carried out by them under my own guidance and supervision. The report in any form has not been submitted in any other University or Institute for any purpose.

  
 Mr. ANU VINAY  
 Associate Professor  
 Internal Super Vision



  
 Associate Professor  
 Head of the Department

Dr. S. S. SATHISH  
 Dr. S. S. SATHISH  
 Ph.D. (Computer Science) (1988)  
 Jyothi Engineering College  
 Ch-Chercheruthurthy P.O.-679 531

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ESTD 2002

## CERTIFICATE

This is to certify that the report entitled " SMART PLOUGH " submitted by ALFIN JOHN(JEC16EE007), EDWIN JOSEPH(JEC16EE022), SACHU K SURESH(JEC16EE052), SANJAY DEV(LJEC16EE067) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electrical & Electronics Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Dr. Jarin T

Associate Professor  
Internal Supervisor



  
Dr. Jarin T

Associate Professor  
Head of the Department

  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, Ph.D  
Ph.D (Computer Science), Ph.D (Maths)



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This is to certify that the report entitled "SMART SECURITY SYSTEM ON TRAINS" submitted by ATHIRA TP (JEC16EE17), JUBIN BAIJUN (JEC16EE19), JENNEL TR (JEC16EE14), LINA MARIA VINCENT (JEC16EE13) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electrical & Electronics Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Mr. Kapil Das K.S.  
Assistant Professor  
Internal Supervisor

*Sunny*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
Principal  
Jyothi Engineering College  
Cheruthuruthy, 679 541



  
Dr. Sunny E.  
Associate Professor  
Head of the Department

# Jyothi Engineering College

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CHERUTHURUTHY  
KERALA  
686 531

## CERTIFICATE

This is to certify that the report entitled "SPECIALLY DESIGNED E-MPC FOR PHYSICALLY CHALLENGED (E-MPC)" submitted by ALLEN KOYIYER (16EE015), ELDO JOSEPH (16EE016), SHINY N GOUD (16EE017), THEERTHA ASHOKAN (16EE018) in the API Akhila Kumar Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electrical & Electronics Engineering is a true record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Dr. Jatin T

Associate Professor  
Internal Supervisor



*Thomas*  
SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
(Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.-679 531

  
Dr. Jatin T

Associate Professor  
Head of the Department

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## CERTIFICATE

This is to certify that the report entitled " STANDALONE BLDC BASED SOLAR AIR COOLER " submitted by ARJUN S(JEC16EE015), BHARATH RAI N B(JEC16EE019), SAMSON A B(JEC16EE053), T MOHAMMAD ASHIK(JEC16EE059) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electrical & Electronics Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

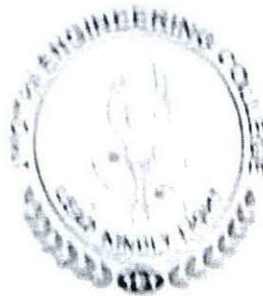
Ms. Della David  
Assistant Professor  
Internal Supervisor



Dr. Jayin T.  
Associate Professor  
Head of the Department

*Handwritten notes:*  
Dr. SUDHAKAR  
M. Sc. (Computer Science), M. Phil, B. Ed  
Principal  
Engineering College  
P.O. - 689 581

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**CERTIFICATE**

This is to certify that the report entitled " REAL TIME IMPLEMENTATION OF ARTIFICIAL NEURAL NETWORKS-BASED CONTROLLER FOR BATTERY STORAGE SUPPORTED WIND ELECTRIC GENERATION " submitted by DHIBERAJ K J(JEC16EE021), FLAVIO VINCENT(JEC16EE025), SYED HITHISHAN N(JEC16EE054), VIVEK RAJ N J(JEC16EE063) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electrical & Electronics Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

**Dr Shajoh V**  
Associate Professor  
Internal Supervisor



**JOSEPH KALAYATHANKAL**  
MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O - 686531

**Dr. Jatin T**  
Associate Professor  
Head of the Department

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This is to certify that the report entitled " ROBOTIC ARM KINEMATIC CONTROLLER WITHOUT TANGIBLE SENSORS " submitted by ANIL P (JEC16EE011), GOUTHAMKRISHNA P (JEC16EE030), MANUKRISHNA M A (JEC16EE044), PRISTLIN PAUL P (JEC16EE049) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electrical & Electronics Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Mrs. Anu Sunny  
Assistant Professor  
Internal Supervisor



Dr. SUNNY JOSEPH KALAYATHANKAL  
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Ph.D (Computer Science) Ph.D (Maths)  
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Jyothi Engineering College  
Cheruthuruthy P.O - 686501

Associate Professor  
Head of the Department

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This is to certify that the report entitled " TRAFFIC ENFORCEMENT SYSTEM " submitted by JOSEMON C FRANCIS(JEC16EE037), LILY THERES(JEC16EE042), RENJITH K.K(JEC16EE050), RESHMA RAJEEV(JEC16EE051) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electrical & Electronics Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Ms. ASWATHY RAJAN  
Assistant Professor  
Internal Supervisor



*Sunny*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Water Science, Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Thrissur P.O.-679 531

Dr. Jarin T.  
Associate Professor  
Head of the Department

# Jyothi Engineering College


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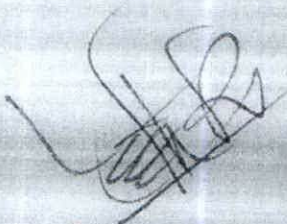
## CERTIFICATE

This is to certify that the project report entitled " **PERFORMANCE ANALYSIS OF DIFFERENT CLASSIFIERS FOR EARTHQUAKE PREDICTION : PACE** " submitted by ABIN VARGHESE(JEC16CS002), ARYA P MENON(JEC16CS034), JOEL P JOSEPH(JEC16CS063), JOFIYA SAJAN(JEC16CS064) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science & Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O., Kottayam

  
Ms. Ninu Francis  
Assistant Professor  
Internal Supervisor



  
Dr. Vinith R  
Professor  
Head of the Department

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### CERTIFICATE

This is to certify that the report entitled "**EXPENSE REIMBURSEMENT SYSTEM**" submitted by KOKUL JOSE(JEC16CS069) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science & Engineering** is a bonafide record of the project work carried out by him under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Mr. Anil Antony

Assistant Professor  
Internal Supervisor

Dr. Vinith R

Professor  
Head of the Department

*Sunny*  
DR. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science) Ph.D (Maths)  
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### CERTIFICATE

This is to certify that the report entitled " DIABETIC RETINOPATHY DETECTION USING NEURAL NETWORKING " submitted by N. RAHUL(JEC16CS089), ROY ELLUVATHINGAL(JEC16CS101), SANITH JAYAN K(JEC16CS104) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Computer Science Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Mr. Anil Antony  
Assistant Professor  
Internal Supervisor

*Sunny*  
Dr. SUNNY JOSEPH KALAYATHANKAL

M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)

PRINCIPAL

Jyothi Engineering College  
Cherthala, PIN: 672631

Dr. Vinith R

Professor

Head of the Department



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### CERTIFICATE

This is to certify that the report entitled " "ILAAJ" A DISEASE DIAGNOSING AND MEDICAL CONSULTANCY RECOMMENDATION SYSTEM " submitted by MOHAMED SAAJID K M(JEC16CS080), MUHAMMAD ASHIQ MAQBOOL(JEC16CS084), TEENA DAVID(JEC16CS117), VIJU VALSAN A(JEC16CS122) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science and Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*ASUNNY*  
Dr. SUNNY JOSEPH K. V. VATHIYANAR  
M.Tech, MCA, M.Sc  
Ph.D (Computer Science)

*[Signature]*  
Mr. Unnikrishnan P  
Assistant Professor  
Internal Supervisor



Fr. Dr. A K George  
Head of the Dept.  
Head of the Department



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LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled " **HOURLY BASED PASSENGER FLOW PREDICTION** " submitted by KAVYA K(JEC16CS067), NITHA HYRIN K(JEC16CS087), RAVEENA P(JEC16CS093) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science & Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Ms. Namitha T N  
Assistant Professor  
Internal Supervisor

Dr. SUNNY JOSEPH KALAYATHAN  
M.Tech, MCA, M.Sc, M.Phil, Ed.D  
Ph.D (Computer Science)  
Professor  
Head of the Department

Jyothi Engineering College  
Cheruthuruthy, P.O. 678 531

# Jyothi Engineering College


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LEADERS OF TOMORROW  
ESTD 2002

## CERTIFICATE

This is to certify that the report entitled " **SMARTUS: BUS MANAGEMENT SYSTEM** " submitted by LIYA C GEORGE (JEC16CS073), NEHA P (JEC16CS036), SANDRA MARIYA M ANIL (JEC16CS103), VARSHA BABU (JEC16CS119) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science & Engineering** is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
(Computer Science), M.B.A (Marketing)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuru

  
**Ms. Reshma K.P.N.D**  
Assistant Professor  
Internal Supervisor

  
**Dr. Vinith R**  
Associate Professor  
Head of the Department

# Jyothi Engineering College


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LEADERS OF TOMORROW  
ESTD 2002

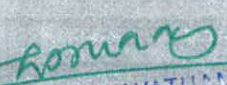
### CERTIFICATE

This is to certify that the report entitled " **PRODUCT REVIEW ANALYSIS AND RECOMMENDATION SYSTEM** " submitted by MARIA ANN TOMS(JEC16CS075), MANU P S(JEC16CS074) and MOHAMMED ASHIQUE(JEC16CS081) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science & Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.



Ms. Sajitha I

Assistant Professor  
Internal Supervisor



Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil  
Ph.D (Computer Science) (India)  
Ph.D (Computer Science) (USA)  
Jyothi Engineering College  
Cheruthuruthy P.O. - 686501



Dr. Vinith R

Professor  
Head of the Department

# Jyothi Engineering College

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2007

## CERTIFICATE

This is to certify that the report entitled "DIGITAL COURT" submitted by NEENU SIVARAMAN(JEC16CS085), ROOFAQK JOSEPH(JEC16CS099), SNEHA MARIA JACKSON(JEC16CS111), ALVIN JOY(JEC16CS127) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Computer Science Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*[Signature]*

Dr. P. P. P. P.  
Assistant Professor  
Internal Supervisor

*[Signature]*

Dr. SUNNY JOSEPH K. MATHATHAKAL  
M.Tech, MCA, B.E., B.Tech, B.L.S., B.T.S.,  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
0472-271531



*[Signature]*

Dr. Vinith R  
Professor  
Head of the Department

# Jyothi Engineering College

NSAC Accredited college with ISO Accredited programmes

## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled "**HOSPITAL MANAGEMENT SOFTWARE WITH ARTHRITIS PREDICTION IN AYURVEDA**" submitted by KENAS JOSE(JEC16CS068), RINSY R(JEC16CS096), VRINDHA VINOJ(JEC16CS125) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Dr. Vinith R

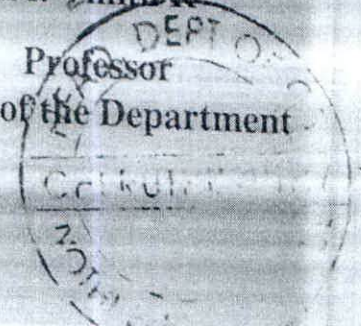
Professor  
Internal Supervisor

  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)

Jyothi Engineering College  
Cheruvu, PO, Changanassery

  
Dr. Vinith R

Professor  
Head of the Department



# Jyothi Engineering College

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW

## CERTIFICATE

This is to certify that the report entitled " CYBER BULLYING DETECTION SYSTEM " submitted by ROHINI K R (JEC16CS097), SREEHARI T ANIL (JEC16CS113), SREEJITH P M (JEC16CS114), YEDUMOHAN P M (JEC16CS126) to the API Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science & Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*Amend*  
Dr. SUNNY JOSEPH KALAYTHANKAL  
M.Tech, MCA, M.Phil, Ph.D  
Ph.D (Computer Science)  
PRINCIPAL  
Jyothi Engineering  
Cheruthuruthy PC.  
Dr. Vinith R

Professor

Internal Supervisor and Head of the Department





# Jyothi Engineering College

RAAC Accredited college with WVI Accredited Programmes

## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled "**HOTELSQUAD - A PROPERTY MANAGEMENT SYSTEM**" submitted by SHEENA K SASI(JEC16CS108), SHERIN SHAJU(JEC16CS109), SHIJITH M S(JEC16CS110), ANJANA PAUL(LJEC16CS128) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Mr. Shaiju Paul  
Assistant Professor  
Project Supervisor

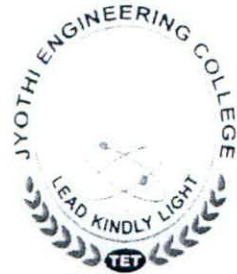
*Dr. Vinith.R*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science) (Maths)  
Jyothi Engineering College  
Cheruthuruthy, P.O.-679 531



*Dr. Vinith.R*  
Dr Vinith.R  
Professor  
Head of the Department

# Jyothi Engineering College


DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING





CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

## CERTIFICATE

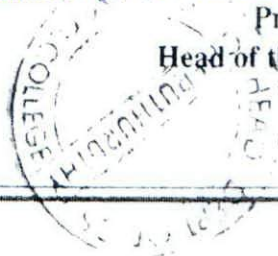
This is to certify that the project report entitled " **PERFORMANCE ANALYSIS OF DIFFERENT CLASSIFIERS FOR EARTHQUAKE PREDICTION : PACE** " submitted by ABIN VARGHESE(JEC16CS002), ARYA P MENON(JEC16CS034), JOEL P JOSEPH(JEC16CS063), JOFIYA SAJAN(JEC16CS064) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science & Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
**Ms. Ninu Francis**  
Assistant Professor  
Internal Supervisor

  
**Dr. SUNNY JOSEPH KALAYATHAMPAL**  
M.Tech, MCA, M.Sc, M.Phil, D.Tech  
Ph.D (Computer Science), Ph.D (Mechanics)  
PRINCIPAL

  
**Dr. Vmith R**  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

**Professor**  
**Head of the Department**



# Jyothi Engineering College

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

## CERTIFICATE

This is to certify that the report entitled " **ALUMNER-SOCIAL NETWORK FOR ALUMNI** " submitted by ADWAITH K V(JEC16CS003), AKSHAY M V(JEC16CS008), ELDHO REJI PHILIP(JEC16CS045), JERIN JOSE(JEC16CS057) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **COMPUTER SCIENCE & ENGINEERING** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*For Mr. Francis*  
**Mr. Fepslin Athish Mon S**

**Assistant Professor  
Internal Supervisor**

*mm*  
**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D.(Computer Science), Ph.D (Maths)

**PRINCIPAL**  
Jyothi Engineering College  
Cheruthuruthy, P.O.-379 501

*[Signature]*  
**Dr. Vinith R**  
**Professor  
Head of the Department**



# Jyothi Engineering College

NAAC Accredited college with 4B Accredited programmes

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the report entitled " **AGROTES** " submitted by ANJU MOLE(JEC16CS025) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science And Engineering** is a bonafide record of the Project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

**Mrs. Aswathy Wilson**  
Assistant Professor  
Internal Supervisor

**Dr. Vinith R**  
Professor  
Head of the Department



**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, Ph.D  
Ph.D (Computer Science) Ph.D (Maths)  
Jyothi Engineering College  
Cheruthuruthy, No. 679 531

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

**CERTIFICATE**

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*for* *Alith*  
*Alith Francis*  
**Mr. Fepslin Athish Mon S**  
Assistant Professor  
Internal Supervisor

*[Signature]*  
**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science) Ph.D (MCA)  
PRINCIPAL  
Jyothi Engineering College  
Cheruvu, P.O-679

*[Signature]*  
**Dr. Vinith R**  
Professor  
Head of the Department



## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

This is to certify that the project report entitled " **PERFORMANCE ANALYSIS OF DIFFERENT CLASSIFIERS FOR EARTHQUAKE PREDICTION : PACE** " submitted by ABIN VARGHESE(JEC16CS002), ARYA P MENON(JEC16CS034), JOEL JOSEPH(JEC16CS063), JOFIYA SAJAN(JEC16CS064) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Computer Science & Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

**Ms. Ninu Francis**  
Assistant Professor  
Internal Supervisor

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
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Cheruvuuru P.O. 679 501

**Dr. Vinith R**  
Professor  
Head of the Department



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING




CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002


**CERTIFICATE**

This is to certify that the report entitled " **DECEPTIVE ARTICLE DETECTION**" submitted by ALEENA THANKACHEN (JEC16CS010), JASIR FAYAS P B (JEC16CS054), JEENA VARGHESE (JEC16CS055), JOE JOSE (JEC16CS062) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **COMPUTER SCIENCE & ENGINEERING** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
**Mr. Shaiju Paul**  
Assistant Professor  
Internal Supervisor

  
**Dr. Vinith R**  
Professor  
Head of the Department

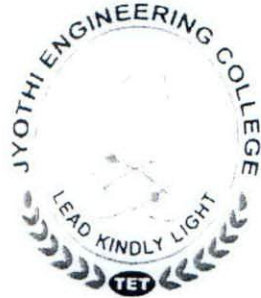


  
**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, B.E  
Ph.D (Computer Science), Ph.D (Maths)

# Jyothi Engineering College

Accredited by AICTE, ISO 9001:2015 Certified Organization

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

### CERTIFICATE

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Ms. Ninu Francis  
Assistant Professor  
Internal Supervisor



*monu*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc. M.Phil, B.Ed  
(Computer Science), Ph.D (M.Tech)  
PRINCIPAL  
Jyothi Engineering College  
Cheruvu, Kottayam

Dr. Vinith R  
Professor  
Head of the Department

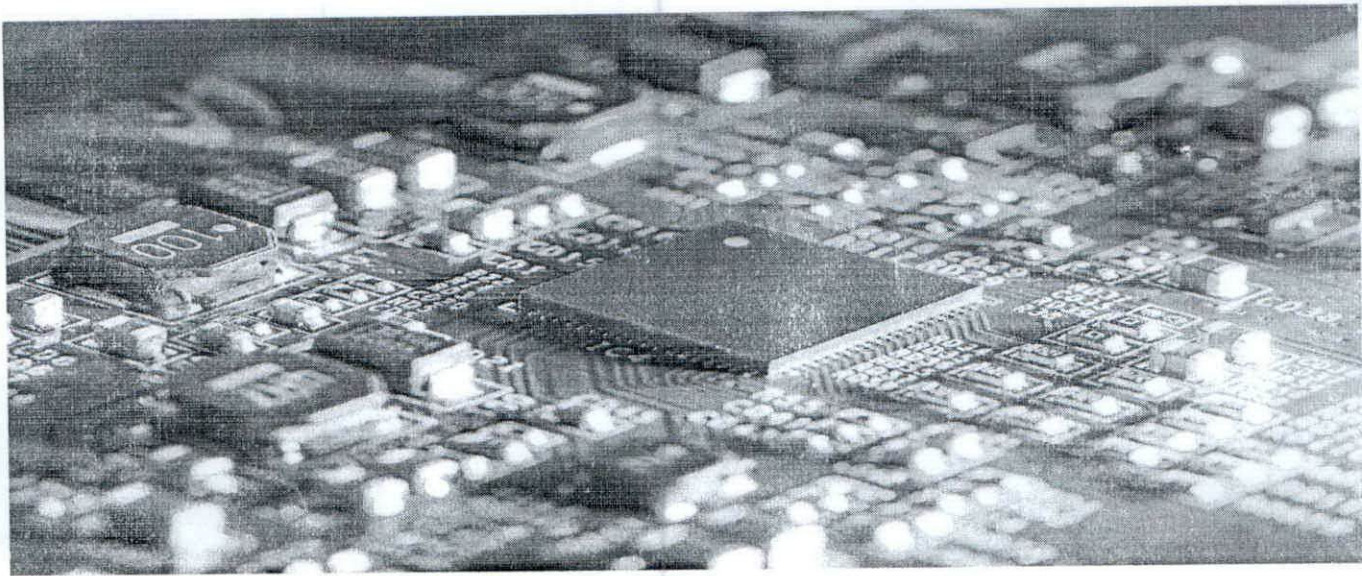


**2019**

**Industrial Visit Report**

**ELECTRICAL AND ELECTRONICS**

**23<sup>rd</sup> July to 26<sup>th</sup> July 2019**



**Submitted by: S4 EEE**

**Batch: 2017-2021**

*amary*

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.- 679 531

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CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

**REGISTER NO.**

**NAME**

JEC17EE001	ABDUL HASEEB
JEC17EE002	ABHIJITH MP
JEC17EE003	ABHIJITH T
JEC17EE004	AJIL JAISON
JEC17EE005	ALEN MATHEWS
JEC17EE006	ALEX ALBERT
JEC17EE007	AMRITHA ASHOK K
JEC17EE008	ANITTA SAVY
JEC17EE009	ANJANA
JEC17EE010	ANTONY THANIKKAL
JEC17EE014	ARJUN PN
JEC17EE016	ASHAL SHAJU
JEC17EE017	BENHUR K BABU
JEC17EE018	DHEERAJ PM
JEC17EE019	HENSA MERIN BABU
JEC17EE020	JITHIN K DOMINIC
JEC17EE022	JYOTHILAKSHMI
JEC17EE023	KAPIL DEV MK
JEC17EE024	KIRANRAJ L R
JEC17EE026	K4UNNATH RAHUL
JEC17EE027	LIJO BYJU
JEC17EE028	MANEESH M K
JEC17EE029	MEGHA MOHANDAS
JEC17EE030	NAVEEN T O
JEC17EE031	NEERAJ P R
JEC17EE032	RAHUL E K

*ADW*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

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JEC17EE033  
JEC17EE034  
JEC17EE036  
JEC17EE037  
JEC17EE039  
JEC17EE040  
JEC17EE041  
JEC17EE042  
JEC17EE043

REJO C J  
ROBBIN RAPPAL  
SAHAL K H  
SANDRA S  
SIJO DAVIS  
SNEHA J P  
SUMAYYA S A  
SWETHA E J  
VISHNU T

## LIST OF STUDENTS WHO HAVE ATTENDEDIV

*Sunny*  
Dr. SUNNY JOSEPH KALAYATHANI AL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

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## Ace Components & Electronics (P) Ltd

Plot No 12, Hootagalli Industrial Area  
Mysuru-570018 Ph: 0821  
2402394,2402364 Email:  
acecomponents@gmail.com

Date: 24.07.2019

### TO WHOMSOEVER IT MAY CONCERN

This is to Certify that Students of 37

**"JYOTHI ENGINEERING COLLEGE THRISSUR KERALA."**

Have visited our organization on **24/07/2019**.

We strongly believe that, they have acquired  
sufficient Knowledge on how a process industry works.

Wishing them all the success in their life.

FOR ACE COMPONENTS & ELECTRONIC (P) LTD

Authorized Signature  
(Seal)

ACE COMPONENTS & ELECTRONICS PVT. LTD.  
Plot No. 12, Hootagalli Industrial Area  
MYSORE - 570 018

-Sd-

R Sukumar

Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil. & Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering Collene  
Cheruthuruthi

True Copy Attested



manufacture of coffee products

Address: 1/80/11, Mahadevpet, Near market, Madikeri, coorg, Karnataka 571201

DATE: 25/07/2019

**TO WHOMEVER IT MAY CONCERN**

This is to certify that 55 students of electrical and electronics engineering Dept.

**"Jyothi Engineering & Technology College, Thrissur"**

Have visited our organization on 25/07/2019

We strongly believe that, they have acquired sufficient

Knowledge on how a process industry works.

Wishing them all the success in their life.

Thanking you

Garuda coffee factory

*SUNNY*  
Dr. SUNNY JOSEPH KALAYAR  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 67

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## COLLEGE VISION

Creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

## COLLEGE MISSION

- To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programmes with state-of-the-art facilities.
- To equip the students with appropriate skills for a meaningful career in the global scenario.
- To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.
- To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

## DEPARTMENT VISION

To become a Centre of Excellence in Electrical and Electronics Engineering through high quality technical education with emphasis on Holistic Excellence.

## DEPARTMENT MISSION

To inculcate Ethical Professionalism through value based quality education so as to equip the students with appropriate skills for a meaningful career and holistic excellence and promote creative engineering ideas for benefit of society.

*Sunny*  
DR. SUNNY JOSEPH KALAYAR  
M. Tech. MCA. M.Sc. (M Phil. B Ed  
(Computer Science)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy

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# PROGRAMME EDUCATIONAL OBJECTIVES

- Graduates shall have a good foundation in the fundamental and practical aspects of mathematics and engineering sciences so as to build successful and enriching careers in the field of Electrical Engineering and allied areas
- Graduates shall learn and adapt themselves to the latest technological developments in the field of Electrical & Electronics engineering which will in turn motivate them to excel in their domains and shall pursue higher education and research
- Graduates shall have professional ethics and good communication ability along with entrepreneurial skills and leadership skills, so that they can succeed in multidisciplinary and diverse fields.

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*ROMA*  
Dr. SUNNY JOSEPH KALAYATHAN  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.- 679 541

## PROGRAM OUTCOMES

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

viii

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

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*Sunny*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Polytechnic Engineering College  
Cherthala, PO - 679 101



6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the

engineering community and with society at large, such as, being able to comprehend and write

effective reports and design documentation, make effective presentations, and give and receive

clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the

engineering and management principles and apply these to one's own work, as a member and

leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

The Copy Attested

Dr. SUNNY JOSE KALAYAT  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy

## PROGRAMME SPECIFIC OUTCOMES

1. Acquire applied knowledge in Environmental Engineering, Geotechnical Engineering Structural Engineering and Transportation Engineering.
2. Utilize theoretical concepts and technical skills in developing appropriate solutions for water quality management, sanitation, pavement design, traffic engineering and transportation planning.

## INDUSTRIAL VISIT OUTCOMES (IVOS)

Students can

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IV O1	Gain hands-on experience of operations are executed	3
IV O2	Understand the gap between theoretical and practical learning in a real-life environment	3
IV O3	Gain opportunity for active/interactive learning experiences in-class as well outside the classroom environment	2
IV O4	Better identify their prospective areas of work in the overall organizational function	1
IV O5	Enhance interpersonal skills and communication techniques	-
IVO6	Aware the industry practices and regulations during industry visits	1

\* Rating to be assigned (1 -3) for individual Industrial Visit Outcomes to indicate how far the Industrial Visit has contributed to the concerned outcome.

Mapping Industrial Visit Outcomes (IVOs) to Programme Outcomes (POs) & Programme Specific Outcomes (PSOs)

Sl.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
V 01	2	1	-	1	-	-	-	1	2	1	1	1
V 02	2	1	1	-	-	-	-	-	1	2	-	-
V 03	1	-	1	1	-	-	-	1	-	1	1	1
V 04	2	1	1	-	-	-	-	-	2	-	-	-
V 05	1	-	2	-	-	-	-	-	1	-	-	-
V 06	-	-	1	1	-	-	-	1	-	2	1	1
avg	1.6	1	1.2	1	-	-	-	1	1.5	1.5	1	1

\* Scales assigned as per the expected contribution of the IVs to the department POs and PSOs.

**MAPPING OF IV- COURSE OUTCOMES (COs) TO PROGRAMME SPECIFIC OUTCOMES (PSOs)**

SL.NO	PSO1	PSO2
IV O1	1	1
IV O2	1	-
IV O3	1	1
IV O4	1	-
IV O5	1	-
IV O6	1	1
AVG	1	1

True Copy Attested

*Sunny Joseph*  
 Dr. SUNNY JOSEPH KALAYATHANKAL  
 M.Tech, MCA, M.Sc, M.Phil, B.Ed  
 Ph.D (Computer Science), Ph.D (Maths)  
 PRINCIPAL  
 Jyothi Engineering College  
 Cheruthuruthy P.O.

**Forward**

Mr./Ms.....

..... is presently a student of 1st / 2nd / 3<sup>rd</sup> year

..... (Name of the Academic Programme/ Degree) of

..... (Name of the Educational Institute). is a bonafide report of the industrial visit carried out by him/her . This report in any form has not been submitted to any other University or Institute for any purpose.

True Copy Attested



Dr. SUNNY JOSEPH KALAYAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O - 679



# Jyothi Engineering College

NAAC Accredited college with AICTE Accredited programmes

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University

A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

JYOTHI HILLS, VETTICKATTIRI P.O., CHERUTHURUTHY, THRISSUR PIN-679531 PH: +91-4884-259000, 274423 FAX: 04884-274777

www.jeccc.ac.in | E-mail: info@jeccc.ac.in

Submitted

## Industrial Tour Report

Sub: Industrial Visit cum Tour of S7 EEE: Reg:-

Date of IV: 08/10/2017 (Sunday) to 14/10/2017 (Saturday)

We started at 1.00 pm from Thrissur Railway Station on 08/10/2017. Reached Hyderabad on 09/10/2017 around 2.30 pm. Visited Snow World at 5.30pm and returned to hotel.

On the 3<sup>rd</sup> day, 10/10/2017, from 9.30am started off to Ramoji Film City. The whole day was spent outside the film city. Reached the hotel back at 8.30pm

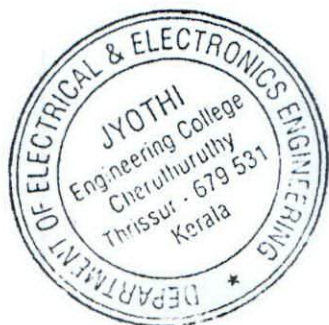
On the 4<sup>th</sup> day, 11/10/2017, visited Golconda Fort at 10.00am and after lunch went to Charminar and followed by shopping. At 6.30pm boarded the train from Hyderabad to Bangalore.

On the 5<sup>th</sup> day, 12/10/2017, reached Bangalore at 8.00am and headed to Wonder La. We visited their 11kV substation. The working of the substation and its control room was explained by the station engineers. After the IV, the rest of the day was spent in Wonder La. Reached hotel at 8.00pm.

On the 6<sup>th</sup> day, 13/10/2017, at 3.00am proceeded to Nandi Hills and after the breakfast visited Lal Bhag. After Lunch proceeded for IV at CPRI, where students got familiarized with the different types of cables and their testing. Then we returned back to hotel and went for shopping.

On the 7<sup>th</sup> day, 14/10/2017, at 6.15am we boarded the train from Bangalore to Thrissur and reached back safely at 4.30pm.

True Copy Attested



*Sunny*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B Mr. Ratnan P  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531  
Ms. Aathira K V



# Jyothi Engineering College

NAAC Accredited college with NEP Accredited programmes\*

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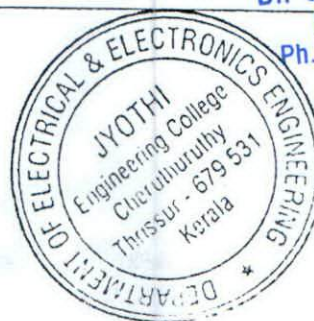
www.jecc.ac.in | E-mail: info@jecc.ac.in

## LIST OF STUDENTS PROCEEDING ON TOUR

1	AJINS JOHNSON E	30	LIVIN VARGHESE
2	AJITH MOZHIPARAMBIL	31	MARTIN JOSEPH
3	AKHILA RAJ T	32	NEON JOSE.V
4	ALEX FRANCIS C F	33	NIDHIN JAISON T
5	ANAY ANTO C J	34	NITHIN JACKSON P
6	ANIL C BALAKRISHNAN	35	NOBLE BENNY
7	ANJALI ASHOK	36	PRASANTH THOMAS K
8	ANN MARY AUGUSTINE	37	PRAVEEN DAS K
9	ANTONY JOHNSON	38	PREETHI P J
10	ANUJITH NANDAKUMAR	39	RESHNA P R
11	ARUN J ALAPPAT	40	RESTO ROY
12	BESTO BOSE	41	REVA K R
13	BROLIN TENCY	42	SANDEEP JAMES
14	BYJO WINSON	43	SARATH N
15	CIBIN PAUL	44	SIBY BABU
16	CINTO JOSE E	45	SIMON THOMAS
17	ELROY WILSON	46	SOLOMON JOSEPH
18	FATHIMA IRFANA T K	47	SOUMYA JOHNSON
19	FRANCY JOHNSON	48	SREEHARI R
20	GEETHANJALI P G	49	STANLY VINCENT T
21	GREESHMA C	50	STEFFAN JONES
22	JERIN BABU P	51	SUMAYYA THASNEEM P
23	JESWIN JOSE	52	TERIN K JOHNSON
24	JITHIN K C	53	VEENA P

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# Jyothi Engineering College

NAAC Accredited college with 'B' Accredited programmes

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25	JOBY JACOB	54	VISHNU
26	JOHN PRAKASH	55	ANAND PAUL N.T
27	JOJO LONAPPAN	56	CHRISTY PIOUS
28	KRISHNAKUMAR	57	JITHIN C G
29	LEO PORINCHU JOY	58	VISHNU V

NAME OF STAFF MEMBERS ACCOMPANYING THE TOUR
RATNAN P, PROFESSOR & HOD, EEE DEPT.
AATHIRA K V, ASST. PROFESSOR, EEE DEPT.

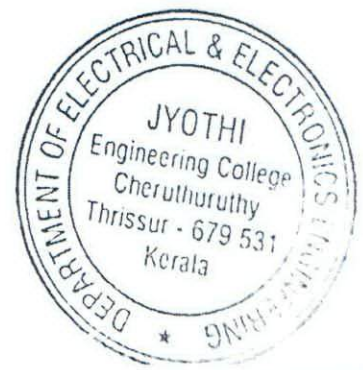
NAME OF STAFF MEMBERS ACCOMPANYING THE TOUR
Mr. C . RAMAKRISHNAN
Mrs. SMITHA M



True Copy Attested

*Sunny*

Dr. SUNNY JOSEPH KALAYATHANKAL  
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Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531





March 5, 2019

**TO WHOMSOEVER IT MAY CONCERN**

**CERTIFICATE**

This is to certify that the following students have visited our organization on 1<sup>st</sup> March, 2019 to understand the various manufacturing processes and procedures followed to produce the electronic components that come in our product range:

S.No.	Name	S.No.	Name
1	Abin Anto	33	John Jose
2	Ajmal Erkkara	34	Josemon C. Fransis
3	Akhil James K	35	Joseph P.K.
4	Akhil Jose Ko	36	Jubin Baiju M
5	Albin Joy	37	Junaid T.K.
6	Albin Thomas	38.	Juwin Jose Manjila
7	Alfin John	39.	Lily Theres
8	Allan Thomas	40.	Lina Maria Vincent
9	Alwin Stephen	41	Manu Krishna M.A.
10	Aneenacs	42	Melbin Chakkalappillil Babychan
11	Anil P P	43	Minsha K.P.
12	Anoop R	44	Noble Francis
13	Arjun Krishnadas	45	Prem P
14	Arjun S	46	Pristlin Paul
15	Athira P Arjun	47	Renjith K.K.
16	Athira T P	48	Reshma Rajeev N
17	Athul Paul	49	Sachu K. Suresh
18	Bharath Raj	50	Samson A.B.
19	Clinton Paul	51	Seyed Ithishan
20	Dheeraj K.J.	52	Shiny No
21	Eldo Joseph	53	Snija Joy
22	Edwin Joseph	54	Swathi K
23	Edwin Joseph C	55	Theertha Ashokan
24	Flavio Vincent	56	T. Mohammad Ashik
25	Giyo George K.	57	T.P. Nived
26.	Gautham C.S.	58	Vinayak M.P.
27	Gautham Krishna P	59	Vismaya Pradeep
28	Hayma Rahmath K.S.	60	Vivek Raj N.J.
29	Jerin M.S.	61	Rahul Krishna P.
30	Jewel Maxwell	62	Sanjay Dev
31	Jisbi Geroge P		
32	Jizon S. Arakkal		

**Dr. SUNNY JOSEPH KALAYATHANKAL**

M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science) Ph.D (Maths)

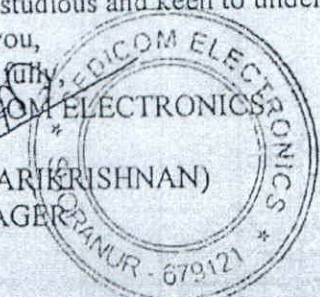
PRINCIPAL

Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

They were studious and keen to understand about the system followed throughout the visit.

Thanking you,  
Yours faithfully,  
For CEDICOM ELECTRONICS

(SUMA HARIKRISHNAN)  
HR MANAGER



*photo signed*



## TOUR REPORT

Class : SS ME A

Number Of Students : 47

Faculties Accompanied : Sreejith A , Suneeth Sukumaran

Day 1, 12th August 2017

The tour commenced on 12th August, 2017 Saturday. The tour group started the journey to Mysore at 6.00am from JECC campus. The first stop was at Nilambur for breakfast at 8.00 am. We did IV at Agro Industries PVT limited at Nilambur. The industry mainly dealt with the production of various tools used in agricultural industry. We were able to observe various steps involved in manufacturing such as smelting, welding, casting etc. The group reached Mysore by 1.00pm and had lunch at JP INN. The second industrial visit was carried out at ACE components, Mysore. The company is an electronic components manufacturing unit mainly catering to defence, telecommunications, etc. Their main market segments include electronic manufacturing services, telecom, control systems, medical electronics, etc. After the industrial visit, various activities which include sight seeing, shopping, etc carried out. Then the tour group then headed back to the place of stay where there was a DJ followed by dinner and with that day 1 of your ended.

DAY 2, 13th August 2017

On the second day of your, group had breakfast from the hotel and started the journey to the next destination, i.e, Coorg by 7.00am. We reached Coorg by noon and had lunch there. After lunch we visited bamboo forest and did river rafting. The group returned to the place of stay at Kingspace around 8.00 pm

DAY 3, 14th August 2017

The last day of our trip started at 7.00 am. The group had breakfast at Kingspace and after that we visited Mysore palace. We started our journey back to JECC. On the way, we did some sight seeing and had lunch at Mysore. The tour group reached back JECC campus at 8.30pm.

*Suneeth*  
Suneeth, AP/ME

*amano*  
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# Ace Components & Electronics (P) Ltd

Plot No 12, Hootagalli Industrial Area  
Mysuru-570018  
Ph: 08212402394,2402364  
Email: [acecomponents@gmail.com](mailto:acecomponents@gmail.com)

Date:12.08.2017

## TO WHOMSOEVER IT MAY CONCERN

*This is to Certify that 47 Students of Mechanical Engineering Dept.*

**"Jyothi Engineering College, Thrissur"**

**Have visited our organization on 12/08/2017**

We strongly believe that, they have acquired sufficient

Knowledge on how a process industry works.

Wishing them all the success in their life.

For Ace Components & Electronics (P) Ltd

-Sd-

R Sukumar

True Copy Attested

*Sunny*  
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PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy, P.O.

Manufacturer of high stability Carbon Film & Metal film resistors

# AMRTHA AGRO INDUSTRIES

Major & Best Suppliers of Single Wheel Barrows & All kinds of Tractor, Laser Levelling Machines Etc.

Post Box No. 11 CHM Road, RT Nagar, Bangalore-560029  
Phone: 91311228006, Mob: 9957230404, 9167174507

Caavery Nagar RT Nagar, Sambrava Gowda Road, Bangalore - 560029 Karnataka, India. Fax: 91311228006

Date:12.08.2017

## TO WHOMSOEVER IT MAY CONCERN

*This is to Certify that 47 Students of Mechanical Engineering Dept.*

**"Jyothi Engineering College, Thrissur"**

**Have visited our organization on 12/08/2017**

We strongly believe that, they have acquired sufficient

Knowledge on how a process industry works.

Wishing them all the success in their life.

True Copy Attested

*hony*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
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Cheruthuruthy P.O.-679511

# 2019

# Industrial Visit Report

25 July 2019 to 27 July 2019



Submitted by: S4614  
Batch: 2017-2021

DEPARTMENT OF CIVIL ENGINEERING

*Sunny*  
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CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

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A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE NATIONAL ACADEMY OF TECHNICAL EDUCATION  
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NEA Accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering,  
Electrical & Electronics Engineering and Mechanical Engineering. valid for Academic Years 2016-2017 to 2018-2019  
www.jyothicollege.ac.in E-mail: info@jyothicollege.ac.in

# NAIK INFRASTRUCTURE BUILDERS & DEVELOPERS

DANDELI, KARNATAKA

e-mail: naik\_infrastructurebuilders@gmail.com  
ph: 9881009921

SUNNY NAIK.  
DANDELI (581325) KARNATAKA.  
August 1 2019.

TO WHOM SO EVER IT MAY CONCERN.

This is to certify that, The Student's of JOTHI ENGINEERING COLLEGE KERALA, S4 CIVIL ENGINEERING DEPARTMENT, 57 Strength of Student's of Second year, had visited to our G+4 construction site at Dandeli.

The Student's had visited for the site as regarding for there Industrial visit to learn the basic components and practical knowledge over the construction site took on july-27-2019.

We wish the best for the future of the students and thankfull for the management for letting the opportunity to there Student's.

Regards,

Thanking you,  
SUNNY NAIK.

NAIK INFRASTRUCTURE BUILDERS & DEVELOPERS.

True Copy Attested

*Sunny*  
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Cheruthuruthy P.O. 679111



MANUFACTURES OF RIGID P.V.C. PIPES

FACTORY & OFFICE PLOT NO.28D & E, INDUSTRIAL AREA MANIPAL - 576 154  
Phone: (0820) 2571304, 2572670, 4291304

Date:26.07.2019

TO WHOMSOEVER IT MAY CONCERN

This is to Certify that 58 Students of Civil Engineering Dept.  
"Jyothi Engineering & Technology , Thrissur"

Have visited our organization on 26/07/2019  
We strongly believe that, they have acquired sufficient  
Knowledge on how a process industry works.  
Wishing them all the success in their life.

Thanking You,  
For RAINBOW PIPES

True Copy Attested

Dr. SUNNY JOSEPH KALAYATH  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.-679

LIST OF STUDENTS WHO HAVE ATTENDED THE IV

S.NO	REGISTER NO	NAME
1	JEC17CE001	ADITH K DAS
2	JEC17CE002	AJMAL T A
3	JEC17CE003	AJO RAJU
4	JEC17CE004	AKHIL SAJ K
5	JEC17CE006	ALEENA SAJAN
6	JEC17CE007	ALFIN KUNJUVAREED
7	JEC17CE008	ALFRED THOMAS
8	JEC17CE009	ALFRIN ANTO
9	JEC17CE010	ANASWARA RAJ K
10	JEC17CE012	ANJALI K R
11	JEC17CE013	ANJANA RAMESH
12	JEC17CE014	ANJU AGNES
13	JEC17CE015	ANTO RAFFY
14	JEC17CE016	ARUN N
15	JEC17CE017	ATHUL SHAJU
16	JEC17CE018	BASIL JOY
17	JEC17CE019	BEJOY J ARAKKAL
18	JEC17CE020	BLESSY P SAMUEL
19	JEC17CE021	CALVINO BENNY
20	JEC17CE022	CHRISTO SHAJU
21	JEC17CE023	DANIEL MOHAN C
22	JEC17CE024	DEVRAJ V
23	JEC17CE025	DHANASREE K S
24	JEC17CE026	DINS THOMAS
25	JEC17CE027	EDWIN JOBISH
26	JEC17CE028	FADEL ABDUL REHMAN
27	JEC17CE030	FASNA SAVAD
28	JEC17CE031	FEBI JOSEPH
29	JEC17CE032	FEMIN K A
30	JEC17CE033	HAREESH P
31	JEC17CE034	IRENE FRANCY A
32	JEC17CE035	JISNA RAJAN
33	JEC17CE036	JOEL JOSE
34	JEC17CE037	MARIYA JOSE
35	JEC17CE038	MOHAMMED ANSAB M
36	JEC17CE039	MOHAMMED ANSAR SALAM
37	JEC17CE040	MOHAMMAD FAHIZ
38	JEC17CE041	MOHAMMAD FAZIL
39	JEC17CE042	NANDANA VINOD
40	JEC17CE043	NIKITHA DAVIS
41	JEC17CE044	NIMMI ROSE ANTO
42	JEC17CE046	RAINA ROY
43	JEC17CE047	RAVEENAD
44	JEC17CE048	SAVIO JOBSON

True Copy Attested

*amr*

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45  
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JEC17CE049  
JEC17CE050  
JEC17CE051  
JEC17CE052

SHEFEEKHAA  
SHINI K J  
SIJIN VARGHESE  
SIJO JOSEPH




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JEC17CE053  
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JEC17CE058  
JEC17CE059  
JEC17CE060  
JEC17CE061  
JEC17CE062

SILPA OUSEPH  
C SNEHA  
SREENANDHANA M  
VARSHA VINOD  
VIMAL VARGHESE  
VINAYAK VINOD  
VINEETH J  
VISHNU N D  
VISHNU VIJAY  
YACI JOSHY

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*Sunny*

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Cheruthuruthy

### COLLEGE VISION

Creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

## COLLEGE MISSION

- To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programmes with state-of-the-art facilities.
- To equip the students with appropriate skills for a meaningful career in the global scenario.
- To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.
- To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

## DEPARTMENT VISION

To emerge as a Centre of Excellence in Civil Engineering through quality professional education and to create eminent leaders with values committed to the profession and society.

## DEPARTMENT MISSION

- To impart state of the art education and to provide industry exposure to students
- To create civil engineers who successfully adapt and innovate solutions for the built environment
- To inspire and transform the students to hard core professionals and academicians with ethical values.

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Jyothi Engineering College  
Cheruthuruthy

## PROGRAMME EDUCATIONAL OBJECTIVES

The program educational objectives of B.Tech in Civil Engineering are

1. Graduates will have concrete knowledge in the application of necessary mathematical tools, scientific theories and modern developments in civil engineering.
2. Graduates will understand the societal needs and will be committed in developing optimal solutions.
3. Graduates will pursue higher education, research or entrepreneurship apart from being employable.
4. Graduates will be competent to face challenges in civil engineering through lifelong learning process and will have high ethical values, honesty and responsibilities.

### PROGRAMME OUTCOMES

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

True Copy Attached

Sunny

Dr. SUNNY JOSEPH KALAYATHILAKA  
 M.Tech, MCA, M.Sc, M.Phil, B.Ed  
 P.O. (Computer Science), Ph.D. (Maths)  
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 Cheruthuruthy, P.O. - 679 531

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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 Ph.D. (Computer Science), Ph.D. (Math)  
 Jyothi Engineering  
 Cheruthi

Sunny

### PROGRAMME SPECIFIC OUTCOMES

1. Acquire applied knowledge in Environmental Engineering, Geotechnical Engineering Structural Engineering and Transportation Engineering.

2. Utilize theoretical concepts and technical skills in developing appropriate solutions for water quality management, sanitation, pavement design, traffic engineering and transportation planning.

### INDUSTRIAL VISIT OUTCOMES (IVOS)

Students can

<b>IV O1</b>	<b>Gain hands-on experience of how industry operations are executed</b>	<b>3</b>
<b>IV O2</b>	Understand the gap between theoretical training and practical learning in a real-life environment.	3
<b>IV O3</b>	Gain opportunity for active/interactive learning experiences in-class as well outside the classroom environment.	2
<b>IV O4</b>	Better identify their prospective areas of work in the overall organizational function.	1
<b>IV O5</b>	Enhance interpersonal skills and communication techniques.	-
<b>IV O6</b>	Aware the industry practices and regulations during industry visits.	1

\* Rating to be assigned (1 -3) for individual Industrial Visit Outcomes to indicate how far the Industrial Visit has contributed to the concerned outcome.

Mapping Industrial Visit Outcomes (IVOs) to Programme Outcomes (POs) & Programme Specific Outcomes (PSOs)

Sl. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
IV O1	2	1	-	1	-	-	-	1	2	1	1	1
IV O2	2	1	1	-	-	-	-	-	1	2	-	-
IV O3	1	-	1	1	-	-	-	1	-	-	1	1
IV O4	2	1	1	-	-	-	-	-	2	-	-	-
IV O5	1	-	2	-	-	-	-	-	1	-	-	-
IV O6	-	-	1	1	-	-	-	1	-	2	-	-
Avg	1.6	1	1.2	1	-	-	-	1	1	1.5	1	1

\* Scales assigned as per the expected contribution of the IVs to the department's Programme Outcomes (POs) and Programme Specific Outcomes (PSOs).

**MAPPING OF IV- COURSE OUTCOMES (COs) TO PROGRAMME SPECIFIC OUTCOMES (PSOs)**

Sl.No	PSO1	PSO2
IV O1	1	1
IV O2	1	-
IV O3	1	1
IV O4	1	-
IV O5	1	-
IV O6	1	1
Avg	1	1

True Copy Attested

*Sunny*

Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 511

## Forward

Mr./Ms. ....  
..... is presently a student of 1st / 2nd / 3 rd year  
.....  
(Name of the Academic Programme/ Degree) of  
.....  
..... (Name of the Educational Institute). is a bonafide report of the  
industrial visit carried out by him/her . This report in any form has not been submitted to any  
other University or Institute for any purpose.

Mrs.Archana S  
Asst.Professor,  
Dept. of Civil Engg.  
IV Coordinator

True Copy Attested

*Archana S*

Dr. SUNNY JOSEPH KALAYATHAN  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy





**JVS ELECTRONICS PRIVATE LIMITED**  
# 121, Manchanayakanahalli, Bangalore Mysore Highway, Bidadi Hobli,  
Ramanagara District - 562 109 Tel: (080) 27204213 Mob: 9480826266  
E-mail: peak@jvselectronics.in

## CERTIFICATE

This is to certify that a team of 44 students and 2 Faculty from ECE of Jyothi Engineering College have undergone the Industrial Visit at M/S JVS Electronics Pvt Ltd on Dt: 01.03.2019 as per the company norms and regulations. They have completed the industrial visit successfully.

Place : Bangalore

Date : 01.03.2019

True Copy Attested

FOR JVS ELECTRONICS PVT. LTD

*Sunny*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc. M.Phil. B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531



Authorised Signatory

01/03/2019

This is to acknowledge the students of JYOTHI ENGINEERING COLLEGE from the ECE DEPARTMENT of 56 Semester have had a very interactive Industrial Visit at our Company's campus in Bangalore. These 44 students and 4 Staff Member's had a session on Industrial Training Program. And have being given a chance to interact with the developer on the floor.

We are pleased to see the discipline of these candidates. And wish them luck for their future endeavors.

Thanks & Regards,



Manager Training Solutions.  
mPower Labs

True Copy Attested

  
Dr. SUNNY JOSEPH KALAYATHAN  
M.Tech, MCA, M.Sc, M.Phil, B Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruvu, Bangalore

2019

# Industrial Visit Report

Industrial visit by 2016-2020 Batch (S6B) Students of CSE Department

28 February 2019 to 04 March 2019

True Copy Attested

*Thomas*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc. M.Phil, B Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthiruthy P.O.- 679 444

*Antony*  
CANIL ANTONY

Submitted by :  
Register No :

*Antony*  
20/3/19

*Antony*  
20/3/19

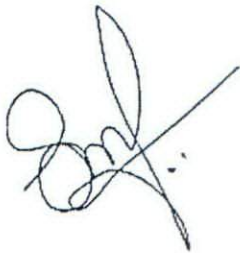
2<sup>nd</sup> March, 2019

TO WHOM IT MAY CONCERN

This is to certify that 60 students from Computer Science & Engineering department, Jyothi Engg. College, Thrissur, Kerala did an one day industrial visit at our Company on 02-03-2019.

The industrial visit included familiarization to a startup environment, their operations, processes and overview of the management.

Wishing every success in the life and career,



Sanjo Simon  
Managing Director

True Copy



Dr. SUNNY JOSEPH KALAYATHAL  
M.Tech, MCA, M.Sc, M.Phil, B Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.-679 531



# Ace Components & Electronics (P) Ltd

Plot No 12, Hootagalli Industrial Area  
Mysuru-570018  
Ph: 7012013859,8139002793  
Email: [acecomponents@gmail.com](mailto:acecomponents@gmail.com)

Date:03.03.2019

## TO WHOMSOEVER IT MAY CONCERN

*This is to Certify that 60 Students of Computer Science and Engineering Dept.*

**"Jyothi Engineering College, Thrissur"**

**Have visited our organization on 03/03/2019**

We strongly believe that, they have acquired sufficient

Knowledge on how a process industry works.

Wishing them all the success in their life.

For Ace Components & Electronics (P) Ltd

-Sd-

R Sukumar

True Copy Attached

*Sunny*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M. Sc, M Phil, B Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. 676 112

Manufacturer of high stability Carbon Film & Metal film resistors

In the later session we got an opportunity to interact with Mr. Sanjo Simon, the Director and CEO of the company. He explained more about the field of Digital Marketing. We got to know numerous digital tactics and channels to connect with customers where they spend much of their time online. He also gave us a clear picture about the post of a digital marketer, who is a person supposed to focus on a different key performance indicator (KPI) for each channel so they can properly measure the company's performance across each one. Since Digital marketing is carried out across many marketing roles today it was so beneficial to attend the same.



True Copy Attested

*Sunny*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Mothi Engineering College  
Cheruthuruthy P.O. - 679 531



# Precision Electronic Components Mfg. Co.



Committed to Quality Since 1982

Head Office B-51, Electronics Complex, Kothapada, ECRI, PO, Hyderabad 500 082, Telangana, INDIA

Address: +91 (0) 40 2712 0283  
 E-mail: purchase@pecmfg.com  
 Sales: +91 (0) 40 2712 6224  
 Website: www.pecmfg.com

Telephone: 2712 6248  
 Fax: 2712 6221  
 E-mail: sales@pecmfg.com

## FOR INNOVATIVE AND COST-EFFECTIVE SOLUTIONS TO DEMANDING WIREWOUND RESISTOR NEEDS

### TO WHOM IT MAY CONCERN

This is to certify that 43 students from 4<sup>th</sup> year Computer Science & Engineering department, Jyothi Engg. College, Thrissur, Kerala did an one day Industrial Visit at our Company on 06-10-2016. Industrial Visit included familiarizations to all the departments and their operations and processes and their management overview involved with the production process of the company.

Wishing every success in the life and career.

For Precision Electronic Components Mfg Co



Signature of Authorized Officer



**Dr. SUNNY JOSEPH KALAYATHANKAL**  
 M.Tech, MCA, M.Sc, M.Phil, B.Ed  
 Ph.D (Computer Science), Ph.D (Maths)  
 PRINCIPAL  
 Jyothi Engineering College  
 Cheruthuruthy P.O. - 679 531





College : 04884 - 25901  
274423, 27487  
Fax : 04884-274777

# Jyothi Engineering College

Jyothi Hills, Panjal Road, Vettikkattiri P O, Cheruthuruthy, Thrissur - 679531  
(Approved by AICTE and Affiliated to APJ Abdul Kalam Technological University/University of Calicut)  
www.jecc.ac.in E-mail : info@jecc.ac.in

30<sup>th</sup> September 2016

## TO WHOM IT MAY CONCERN

A batch of 43 students of the semester VII, Computer Science and Engineering Branch of our college are proceeding on a study tour cum Industrial Visit to Hyderabad & Bangalore from 3<sup>rd</sup> to 10<sup>th</sup> October 2016. The list of students is attached. They will be accompanied by two faculty Members and two parents of the students.

All concerned are requested to allow all Concessions and Privileges to them as admissible to students. They may kindly be extended necessary assistance and full cooperation.

PRINCIPAL

Encl : List of Students & staff members.



True Copy Attested

3/29

*F. Jayaram*

Dr. S. JAYARAM  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D. (Computer Science), Ph.D. (Maths)  
Principal  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

*K. Anand*



## TO WHOMSOEVER IT MAY CONCERN

This is to certify that 49 students from the department of Computer Science & Engineering, of Jyothi Engineering College, Thrissur, Kerala visited NASSCOM CoE-IoT, Bangalore on 07-10-2016.

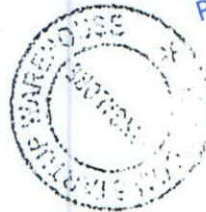
The industrial visit included familiarizations of IoT industry, the different departments, their operations, processes and overview of the management.

Wishing every success in their life and career.

**True Copy Attested**

*Sanjeev*  
**Dr. SUNNY JOSEPH KALAYATH**  
M.Tech, MCA, M.Sc, M Phil, B Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL

Jyothi Engineering College  
Cheruthu Pathy P.O.-679 531  
**Sanjeev Malhotra**  
CEO, NASSCOM CoE-IoT  
Bangalore



National Association of Software Services Companies

NASSCOM, 10000 Startup Warehouse Corporate Tower - Central Atrium,  
Lower Ground Floor - Dd3, No. 150, Diamond District  
HAL Airport Road, Bangalore 560 008

T- 080-41693924

18<sup>th</sup> September 2015

## CERTIFICATE

This is to certify that the below mentioned students of **JYOTHI ENGINEERING COLLEGE, THRISSUR** pursuing their 7<sup>th</sup> Semester Computer Science Engineering, had successfully completed their Industrial Visit on 18/9/2015.

Sl No.	STUDENT NAME
1	PRIYATHA MATHEW
2	MUHSINA K M
3	AJINA ASSISI
4	LIA PULICKAN
5	NAVEENA VARGHESE
6	RONIYA JOSE
7	RESHMA R

Regards,

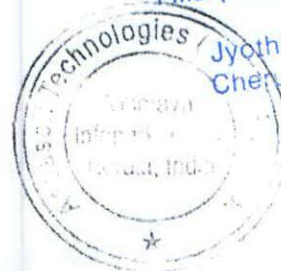
For Aabasoft Technologies India Pvt Ltd



Nisha Roy  
Manager – Human Resources  
Aabasoft | Infopark | Kochi | India

**True Copy Attested**

*ammy*  
Dr. SUNNY JOSEPH KALAYAN  
M.Tech, MCA, M.Sc M.Phil E.EU  
Ph.D (Computer Science) Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy



To,

The Principal,  
Jyothi Engineering College, Cheruthuruthy  
Thrissur-679531

Dear Sir,

### Sub: Certificate for Industrial Visit

As per the request from 4<sup>th</sup> year CSE batch (2012-16) students from your reputed college, we permitted them for an industrial visit in our company **Nestsoft Technologies**, Cochin ([www.nestsoft.com](http://www.nestsoft.com)) on 17<sup>th</sup> September 2015. They visited on same date and we gave the brief description about Mobile Applications, Responsive Websites and Digital Marketing (SEO). Total 7 students attended the industrial visit in our company. We express our thanks to the students who participated enthusiastically and for their co-operation. We expect the future batches from your college for industrial visit to our company.

1. Ajina Assissi (JYAMECS002)
2. Lia Pulickan (JYAMECS025)
3. Muhsina K M (JYAMECS033)
4. Naveena Varghese (JYAMECS035)
5. Priyatha Mathew (JYAMECS040)
6. Reshma R (JYAMECS044)
7. Roniya Jose (JYAMECS046)

Thanking You




Jilo Jose - Project Leader  
Nestsoft Technologies  
Sreekandath Road, Ravipuram  
Cochin - 682016, Kerala

E-mail: [jilojose@nestsoft.com](mailto:jilojose@nestsoft.com)  
Tel/Mobile: 0484-3191450, 9895490866  
URL: [www.nestsoft.com](http://www.nestsoft.com)

True Copy Attested

*Amma*



Dr. S. JYOTHI JOSE  
M.Tech, MCA, M.Sc, Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy, Cochin - 679531



**seguro**  
technologies  
exceeding your expectations

Date: 21-09-2015

This is to certify that VII Semester B.Tech Computer Science students from Jyothi Engineering College Ms. Hasna Benny, Najja T C, Neenu Davis N had visited our software firm Seguro Technologies LLP on 21<sup>st</sup> September 2015 and had an understanding of the software development process and methodology that we follow.

For Seguro Technologies LLP

Mijulal K.P  
Co-Founder  
Seguro Technologies LLP.




True Copy Attested

Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

To Whom It May Concern

This is to confirm that the Fourth Year Students Hasna Benny, Naija T.C, Neenu Davis N of Computer Engineering Batch of Jyothi Engineering College, Thrissur visited the UST Global Cochin Center on September 22th 2015. During the visit to the center, they have participated in a UST Global Corporate presentation, a Facility Walk and a Q&A Session.

This letter is an official confirmation of this Visit to the UST Global Cochin Center.



Sunil Balakrishnan  
(UST Global Kochi Center Head)



True Copy Attested



Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 511



# ROLLRING® INDUSTRIES

14/409A, MADURA BAZAR ROAD, KOLATHARA (P.O)  
CALICUT - 673 655. KERALA, INDIA  
Phone: 0091 495 2481295, 2485334, 3293039 Fax: 0091 495 2483394.

e mail : rollringindustry@gmail.com  
" : rollringindustries@gmail.com  
" : koz\_rollring@bsnl.in  
Web : www.rollring.com  
Mobile : 098460 90164



January 16, 2014

To  
**The Principal**  
M/s.Jyothi Engineering COLLEGE  
Jyothi Hills,  
Panjal Road,  
Vettikattiri Po,  
Cheruthuruthy, Thrissur 679 531.

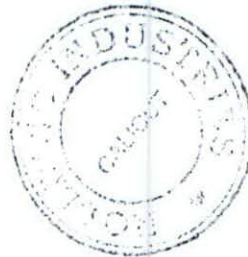
Dear Sir,

This is to certify that students of the Semester IV Computer Science and Engineering Branch of your college visited our factory on 16<sup>th</sup> Morning as a part of the study tour.

Thanks & Regards,

  
V.K.Krishnakumar.  
Managing Partner.

True Copy Attested





Dr. SUNNY JOSEPH KALA  
M.Tech, MCA, M.Sc M.Phil  
Ph.D (Computer Science), FIITJEE  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531