Engineering College

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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.

Mr. nesh K.J.

Assis Professor Internal Supervisor

Dr. SUNNY JOSEPH KALAYATHANKAL
M. Tech, MCA, M.Sc, M.Phii, B.Ld
M. Tech, MCA, M.Sc, M.Phii, B.Ld
Ph.D. (Computer Science), Ph.D. (Mailis)

Jyothr Engineering College Cheruthuruthy P.D. 1679 501

Dr. Jose P. Therattil

Jyothi Engineering College NAAC Accredited college with NO Accredited programmes

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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 DIPINKRISHNAN R

Assistant Professor Internal Supervisor Dr. JOSE & THERATTIL

Professor

Jyoth Engineering College NAAC Accredited college with 143 Accredited programmes

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CERTIFICATE

This is to certify that the report entitled " LANDSLIDE DETECTION USING PIEZOELECTRIC EFFECT submitted 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 of Institute for any purpose. M. Tech, MCA, M Sc. M Phil, & Ed Dr. SUNNY JOSEPH K (Computer Science), Ph.D (Maths)

PRINCIPAL

Ms ROSHNI RAJAN Kuthur

Assistant Professor Internal Supervisor Dr JOSE PTHERATTIL

Jyoth Engineering College NAAC Accredited college with NA Accredited programmes

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ENGINEERING



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 KALAYATHAMKAL

Ms. Annie P. Joseph

Associate Professor Internal Supervisor Dr. Jose P. Therattil

M.Tech, MCA, M.Sc, Martin and Ph.D (Computer Science). Ph.D (La.,

Jyoth Engineering College Att Accredited college with the Accredited programmes

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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.

Dr. SUNNY JOSEPP

Ms. Sindhu S

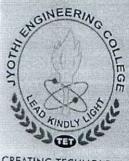
A sciate Professor Ir Supervisor Dr. Jose P Therattil

Professor Head of the Department

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Jyoth Engineering College NA AC Accredited college with NE Accredited programmes

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CREATING TECHNOLOGY LEADERS OF TOMORROW

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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. M. Tech, MCA, M. Sc. M. FIM. b. F. J.

Ph.D (Computer Science), Ph.D (Medis) PRINC PAL

Engineering College

Ms. Neethu Rose Thomas

Assista Professor Interna Supervisor Dr. Jose P Therattil

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ENGINEERING



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 & Communicaton 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 of Institute for any purpose.

Ph.D (Computer Science Mature PRINCIP)

Jyothi Engineering Tops

Mr. Ponmani Raja M

Assistant Professor Interna Supervisor Dr. Jose P Therattil

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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.

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Dr. SUNNY JOSEPH KALAY'THONKAL

M.Tech, MCA M So M Fall (A titre)
Ph.D (Computer Science 11 (A titre)

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Mr. Rijo P C

Assistant Professor Internal Supervisor Dr. Jose Therattil

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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 Dr. SUNNY JOSEPH KALAYAT MATERIKAL

any purpose.

Ph.D (Computer

Ms.Shiny M I

Associate Professor Internal Supervisor Dr.Jose P.Therattil

Professor Head of the Department

DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING



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. Jose P. Therattil

Engineering College

DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING



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.

RIJO P C
at Professor
Supervisor

Ph.D (Gomment OF CO)

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Government

Dr. Jose P. Therattil

DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING



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

Dr.Jose P.Therattil

Professor

DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING



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.

LAYATHANKAL

Mr. Dipinkrishnan R

Assistant Professor Internal visor Dr.Jose P.Therattil

Professor Head of the Department JYOTH Engineering College
NAAC Accredited college with 1432 Accredited programmes

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ENGINEERING



CERTIFICATE

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.

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

Ms. AM ILY FRANCIS

Assi at Professor Inte al Supervisor DR. JOSE P. THERATTIL

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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,

Dr. SUNNY JOSEPH KALAVATHANKAL M. Tech, MCA, M.Sc. M Phil

Ph.D (Computer Science), Ph.D (Computer Science), Ph.D (PRINCIPAL)

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Annie P Joseph

Associate Professor Internal Supervisor Dr. Jose P Therattil

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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

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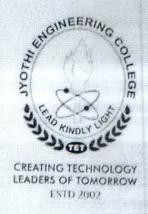
Ms. Roshni Rajan K

Assistant Professor Internal Supervisor Dr. SUNNY JOS M. Tech, MCA, M.S. Ph.D (Computer Science

Jyothi Engineering

Cheruthuruthy F.O. Dr. Jose P Therattil

DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING



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 Bladhu K Rajan Assistant Professor Internal Supervisor Dr. SUNNY JO

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PHY-679 531

Engineeries

Dr. Jose P Therattil

DEPARTMENT OF ELECTRONICS & COMMUNICATION

ENGINEERING



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.

Dr. Prajoon Puthur

Assistant Professor Internal Supervisor Dr. Jose P. Therattil

Jyonn Engineering College NA AC Accredited college with MER Accredited programmes

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ENGINEERING



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 Dr. Jose P. Therattil.

Engineering College

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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 Dr. Jose P Therattil.

Associate Professor

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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.

Mr. DIPLAKRISHNAN R

Assistant Professor Internal Supervisor Dr.JOSE & THERATTIL

Professor

Engineering College

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

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 Ph

Dr. Jose P Therattil

Professor

JYOTH Engineering College

DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING



CERTIFICATE

This is to certify that the report entitled "PLANT DISEASE DETECTION AND DIAGNOSIS USING DCNN" submitted by AKHILA KRISHNAKUMAR(JEC16EC007), INDUJA(JEC16EC043), JOSEPH P.B(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.

M. Tech, MCA, M. Ph.D (Computer Spin

Mr. Jinesh K.J_{yothi}

Assistant Professor Internal Supervisor Dr.Jese Tharattil.



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

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 PH KALA M.Tech. MCA. M. Sc. M.F.

Ph.D (Computer Science)
PRINCIPAL

Jyothi Engineering Cerles Cheruthuruthy R.O.- 679 : . Rr. Jarin T



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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 API 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 EPH KALAY. Dr. Supervisor EPH KALAY. Dr. M. Tech, MCA. M.Sc., M.Phil M. Tech, MCA. M.Sc., M.Phil

Ph.D (Computer Science), Ph.D (Computer Science), Ph.D (Ph.D PRINCIPAL PRINCIPAL College Jyothi Engineering College Cheruthuruthy P.O.- 679 531

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HERARIMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the report entitled "ESPERTO ENERGIA METER" submitted by AKMIL JOSE K O(JEC16EE004), ANOOPA ANAND(LJEC16EE064), ANOOPA RAISC (OSEE013), MINSHA K P(JEC16EE046) to the APJ Abdul Kalam Technological movements 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

Dr.Shijoh V

Associate Professor

Internal Supervisor

Dr. Jarin

Associate Professor Head of the Department

Dr. SUNNY JOSEPH KALAYATHANKAL M.Tech, MCA, M.Sc, M Phil B Lu

M.Tech, MCA, M.Sc, W Pin B Co Ph.D (Computer Science), Plan Souns

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CREATING TECHNOLOGY LEADERS OF TOMORROW ESTD 2002

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. SUNNY JOSEPH KALAYATHANKAL

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

Dr. Nisha P. V.

Assistant Professor Internal Supervisor

Engineering College

Approved by AICTL 8 affiliated to API Abdul kalam Technological University

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CREATING TECHNOLOGY LEADERS OF TOMORROW ES1D 2002

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

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Head of the Department

Mr. Kapildas K.S.

Woth Engineering Coll in Engineering Cone 53

Assoc. Professor

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



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.



Assistant Professor Internal Supervisor





Associate Professor Head of the Department

COL. SAMAN, MER SCRIPS COMES

Jy Jyothi Enguity

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



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.

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

PRINCIPAL Mr. Akhil A. Balakrishnan Oothi Engineering College Assistant Professor Cheruthuruthy P.O.- 679 531

Internal Supervisor

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I Engineering College

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



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

DEPARTMENT OF ELECTRICAL & PLACTAMENTS EXCHAPANCE



CERTIFICATE

This is to certify that the report emider "SMART SECURIUS SUSTIEMEN TRANSITION TO SUBMITTED SECURIOR SUSTIEMENT TO THE ATTEMPT OF THE ATTEMPT

Institute for any purpose.

Mr.Kapil Das K.S.

Assistant Professor Internal Supervisor

Dr. SUNINY JOSEPH KALAYATHANKAL

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Ph.D (Consulpring Prints Pr

Dr. Sen I.

Assembly Professor First of the Department

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CERTIFICATE

This is to certify that the report emitted "SPECIALLY DESIGNATED E-MURLINGS FOR PHYSICALLY CHALLENGED (E-MPC) - submanued by ALTHAN MANUECHEEDUS, ELDO MOSEPHOTECHEEDESA, SHINE IN GATETINEEDESS. THEEXTHA ASHOKAN/JECIGEEISS in the API Almini Materia Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electrical & Electronics Engineering a ubununing recomof the project work carried out by them under my/our guidance and surrevision. This report in any form has not been submitted to any other University or Justianne for any purpose.

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SOLAR AIR COOLER "submitted by ARJUN S(JEC16EE015), BHARATH RAJ 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 DI SUPERAN SCIENCE SCI

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



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 DHEERAJ 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 Shljoh V

Associate Professor Internal Supervisor DE SHIN JOSEPH KALAYATHAM DE SHIN JOSEPH KALAYATHAM JOSEPH KALAYATHAM M.SC. M.Phil. B.Ed M.SC. M.Phil. B.Ed M. M.SC. M.Phil. B.Ed M. M. Science), Ph.D (Maths) PRINCIPAL PRINCIPAL

DEPARTMENT OF ELECTRICAL & PLEATRIBLE PROJECTOR



CERTIFICATE

This is to certify that the report entitled " ROBOTIC ARM KINEMATIC CONTROLLER WITHOUT TANGIBLE SENSORS " submitted by ANH P P (JEC16EE011), GOUTHAMKRISHNA P (JEC16EF930), 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

CA, M.Sc, M. Phil, B.Ed Science) Ph.D (Maths) Engineeri Associate Professor



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



LEADERS OF TOMORROW ESTD 2002

CERTIFICATE

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 JOSEPH KALAYATHANKAL

cience), Ph.D (Math

Associate Professor Head of the Department

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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.

Hade

Ms. Ninu Francis Assistant Professor Internal Supervisor Dr. Vinith R

Professor

Engineering College

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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.

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Assistant Professor. SUNNY JOSEPH KALAYATHANKAL Internal Supervisor. M. Tech, MCA, R., Sc., M. Phil, B.Ed. Ph.D. (Computer Science). Ph.D. (Maths)

Jyothi Engineering Cottoge Cheruthuruthy F.O.-679 201 Dr. Vinith R

Head of the Department

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CREATING TECHNOLOGY LEADERS OF TOMORROW ESTD 2002

CERTIFICATE

This is to certify that the report entitled "DIABETIC RETINOPATHY DETECTION USING NEURAL NETWORKING" submitted by N. RAHUL(JEC16CS089), ROY ELUVATHINGAL(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.

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

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Dr. Vinith R

Cheruman and CO. 670 531 Professor

DEPARTMENT OF COMPUTER SCIENCE AND ENGINNEERING



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 Enginneering 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.

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Mr. Unnikrishnan P

Assistant Professor Internal Supervisor Fr. Dr. AK George

Head of the Dept. Head of the Department

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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 bonaride 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

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Dr. Vinith R

Dr. SUNNY JOSEPH KALAYATHANIPATOTESSOT M. Tech, MCA, M.Sc. M. Ph.D (Computer Science

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CREATING TECHNOLOGY LEADERS OF TOMORROW EXTRODICS

CERTIFICATE

This is to certify that the report entitled "SMARTUS: BUS MANAGEMENT SYSTEM" submitted by LIYA C GEORGE (JEC16CS073), NEHA P (JEC16CSC86), 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 KALAYATHA M. Tech, MCA, N. SS. El Phil B. E

Ms. Reshma KPND (Computer Scales), 1910 (M)

Assistant Professoryothi English Internal Supervisor Pheruthurus

ENDE. Vinith R

Associate Professor Head of the Department

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



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.

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Assistant Professor Internal Supervisor

Dr. SUNNY JOSEPH MALAYATHANKAL M. Tech, MCA, M. Se M. Dell Ph.D (Computer Sec.

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CERTIFICATE

This is to certify that the report estatled "DIGITAL COURT" submitted by NEENU SIVARAMANUECHICSONS), ROOFAQK JOSEPHUEC16CS0991, SNEHA MARIA DACKSON/JEC/16CS111), ALVIN JOY(LJEC/16CS127) 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 recent of the project work carried our by them under my/our guidance and supervision. This regard to any form has not been submitted to any other University or Institute for after practical

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Dr. Vinith R

Assistant Profe Internal Super-

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING



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 KALAYATHANKAI M. Tech, MCA M. Sc. M. and B. Ed M. Tech, MCA M. Sc. M. and B. Ed Ph. D. (Company School College) and D. (Maths)

Dr. Vinith R

Professor

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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 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 KALANTHANKAL

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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. SUNNY JOSEPH KALAYATHANKAL

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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.

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Assistant Professor Internal Supervisor Dr. SUNNY JOSEPH KALAYATHAM

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



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.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



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.

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Professor

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M. Tech, MCA, M.Sc. .. Phil Ph.D (Computer See. Ph.L ... aths)

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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.

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

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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 JOSEPH(JEC16CS063), JOFIYA SAJAN(JEC16CS064) to the APJ Abdul Kalam Fechnological 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.

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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.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



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Ms. Ninu Francis Assistant Professor Internal Supervisor Dr. SUNN.
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