

K S R Institute for Engineering and Technology

Tiruchengode, Namakkal(Dt), Tamil Nadu

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

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

For the Academic Year 2015 – 2016

S. No.	Name of the Program	Page No
1	B.E – Computer Science and Engineering	2-16
2	B.E – Electrical and Electronics Engineering	17-34
3	B.E – Electronics and Communication Engineering	35-71
4	B.E – Mechanical Engineering (Main Project, Mini Project)	72-158
5	B. Tech – Information Technology	159-172
6	M.E – Computer Science and Engineering (Phase I & Phase II)	173-192
7	M.E – Embedded System Technologies Engineering (Phase II)	193-196
8	M.E – CAD/CAM (Phase I & Phase II)	197-202
9	M.E – Software Engineering (Phase I & Phase II)	203-206

BONAFIDE CERTIFICATE

Certified that this project report titled "HOME ELECTRICITY LOAD FORECASTING" is the bonafide work of S.ANANDHI (731612104001), K.ANITHA (731612104002), R.KEERTHANA (731612104019), J.SRUTHI (731612104052) who are carried out the project work under my supervision.

SIGNATURE

Dr. B. KALAAVATHI
HEAD OF THE DEPARTMENT

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

SIGNATURE SIGNATURE

Dr. B. KALAAVATHI SUPERVISOR PROFESSOR & HEAD

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

Submitted for the project work Viva- Voice examination held on 11.04.2016

Internal Examiner

PRINCIPAL. S. R. INSTITUTE FO

External Examiner

K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
TIRUCHENGODE 627 215,

Page 2 of 206

BONA FIDE CERTIFICATE

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

SIGNATURE

Dr. B. KALAAVATHI

HEAD OF THE DEPARTMENT

Computer Science and Engineering

KSR Institute for Engineering and

Technology

Tiruchengode - 637 215

SIGNATURE

Dr. B. KALAAVATHI

SUPERVISOR

PROFESSOR

Computer Science and Engineering

KSR Institute for Engineering and

Technology

Tiruchengode - 637 215

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

Internal Examiner

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

TIRUCHENGODE 637 215,

beautisticated by spatial things.

BONAFIDE CERTIFICATE

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

SUCCEATURE ITUITS

Dr.B.KALAAVATHI
HEAD OF THE DEPARTMENT
PROFESSOR & HEAD

Computer Science and Engineering K S R Institute for Engineering and Technology

Tiruchengode-637215

Shumil Frank SIGNATURE

Mr.M.JAGANATHAN
SUPERVISOR
ASSISTANT PROFESSOR

Computer Science and Engineering K S R Institute for Engineering and Technology

Tiruchengode-637215

Submitted for the Project Viva-Voce Examination held on 11.04.2016

Internal Examiner

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

BONAFIDE CERTIFICATE

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

SIGNATURE Milelus

Dr.B.KALAAVATHI
HEAD OF THE DEPARTMENT
PROFESSOR & HEAD

Computer Science and Engineering
K S R Institute for Engineering
and Technology
Tiruchengode-637 215

SIGNATURE

Dr.G.MALATHY
SUPERVISOR
ASSOCIATE PROFESSOR

Computer Science and Engineering
K S R Institute for Engineering
and Technology
Tiruchengode-637 215

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

Internal Evaniner Examiner

PRINCIPAL.

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

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

External

BONAFIDE CERTIFICATE

Certified that this project report "DETECTION AND REMOVAL OF MALICIOUS NODES IN MANET BY USING INTRUSION PROTOCOL" is the bonafide work of DEVE M, DHIVYA BHARATHI P, RAGHAVI T, KABIL S who carried out the project work under my supervision.

SIGNATURE

HEAD OF THE DEPARTMENT

Dr. B.KALAAVATHI

PROFESSOR AND HEAD

Department of Computer Science and

Engineering

K S R Institute for Engineering and

Technology

Tiruchengode - 637 215

SIGNATURE SIGNATURE

SUPERVISOR

Mr. P.SUMATHI, M.E,

ASSISTANT PROFESSOR

Department of Computer Science

and Engineering

K S R Institute for Engineering and

Technology

Tiruchengode – 637 215

Submitted for the Project Viva - Voce Examination held on _

Internal Examiner

8

External Examiner

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

BONAFIDE CERTIFICATE

Certified that this project report "AUTOMATION OF STUDENT RESULT ANALYSIS" is the bonafidework of "DEVIBALA T (731612104702), JAYANTHI M (731612104013), THENMOZHI A (731612104056), UMAPRIYA A (731612104057)" who carried out the project work under my supervision.

SICNATURE WY

Dr. B. KALAAVATHI

SIGNATURE

Mr. T. SOUNDER RAJAN

Assistant Professor,

SUPERVISOR

Computer Science and Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode-637 215

HEAD OF THE DEPARTMENT

Computer Science and Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode-637 215

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

Internal Examiner

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

TIRUCHENGODE-637 215,

NAMAXKAL DI. TAMIL NADU.

BONAFIDE CERTIFICATE

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

SIGNATURE UN 16

Dr. B. KALAAVATHI
HEAD OF THE DEPARTMENT
PROFESSOR

Department of Computer Science and Engineering KSR Institute for Engineering and

Technology

Tiruchengode - 637 215

Phrushosonkor SIGNATURE

Mr. P. KRISHNA SANKAR

SUPERVISOR

ASSISTANT PROFESSOR

Department of Computer Science

and Engineering

KSR Institute for Engineering and

Technology

Tiruchengode - 637 215

Submitted for the project work Viva-Voice examination held on 11-01-2016

Internal Examiner

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

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

SIGNATURE WINTER

Dr. B. KALAAVATHI

HEAD OF THE DEPARTMENT

PROFESSOR & HEAD,

Computer Science and Engineering,

KSR Institute for Engineering and Technology,

Tiruchengode - 637215.

RHOPE

Mr. R. GOPAL

SUPERVISOR

ASSISTANT PROFESSOR,

Computer Science and Engineering,

KSR Institute for Engineering and Technology,

Tiruchengode - 637215.

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

Internal Examiner

PRINCIPAL.

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

AU 1116/16

Certified that this project report titled "OPTIMAL DATA REDUNDANCY SCHEMES FOR HETEROGENEOUS CLOUD STORAGE INFRASTRUCTURES" is the bonafide work of M.ARJUN (731612104004), R.ARAVIND (731612104003), KK.DHARUN PRABHAKARAN (731612104008) and M.MUTHU KUMARAN (731612104032) who are carried out the project work under my supervision.

SIGNATURE (1/41/16

HEAD OF THE DEPARTMENT

Dr. B. KALAAVATHI

PROFESSOR & HEAD

Computer Science and Engineering
KSR Institute for Engineering and
Technology

Tiruchengode -637 215

SIGNATURE

SUPERVISOR

Mr. M.JAWAHAR M.E.,

ASSISTANT PROFESSOR

Computer Science and Engineering

KSR Institute for Engineering and

Technology

Tiruchengode -637 215

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

Internal Examiner

ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
TIPLICHENGODE 637 315.

External Examiner

RUSTIFILE

Page 10 of 206

Certified that this project report "GPS Based profile change in mobiles" is the bonafide work of "MONISHAN (731612104030) and DEEPIKA A (73161214701)" who carried out the project work under my supervision.

SIGNATURE 11/11/16

Dr. B. KALAAVATHI

HEAD OF THE DEPARTMENT

PROFESSOR HEAD,

Computer Science and Engineering,

KSR Institute for Engineering and Technology,

Tiruchengode 637215.

P. 8 114116 SIGNATURE

Mrs. P.SUMATHI M.E.,

SUPERVISOR

ASSISTANT PROFESSOR,

Computer Science and Engineering,

KSR Institute for Engineering and Technology,

Tiruchengode 637215.

Submitted for the Project Viva-Voce Examination held on 11 47

Internal Examiner

PRINCIPAL.

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

External Examiner

Page 11 of 206

BONAFIDE CERTIFICATE

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

SCNATURE 16

HEAD OF THE DEPARTMENT

Dr. B. KALAAVATHI

PROFESSOR & HEAD

Department of Computer Science and Engineering

K S R Institute for Engineering and Technology

Tiruchengode - 637 215

SIGNATURE

SUPERVISOR

Mr. Ms.L.PRIYANKA DEVI

ASSISTANT PROFESSOR

Department of Computer Science and Engineering

K S R Institute for Engineering and Technology

Tiruchengode – 637 215

Submitted for the Project Viva - Voce Examination held on ______

Internal Examiner

PRINCIPAL.

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

K. S. R. KALVI PLOAR.
TRUCHENCOOP 11 15,
KAMARKALDI TAME

Kuchillo

BONAFIDE CERTIFICATE

Certified that this project report "AUTOMOBILE TRAFFIC TURN ASIDE" is the bona work of "JAYASRI V, NIRANJANADEVE M, RANJITHA M, SRIDHAR G" who ca out the project work under my supervision.

SIGNATURE

HEAD OF THE DEPARTMENT

Dr. B.KALAAVATHI

PROFESSOR AND HEAD

Department of Computer Science and

Engineering

K S R Institute for Engineering and

Technology

Tiruchengode - 637 215

SIGNATURE

SUPERVISOR

Mr. K. SRIRAM KUMAR, M.E,

ASSISTANT PROFESSOR

Department of Computer Science

and Engineering

K S R Institute for Engineering and

Technology

Tiruchengode – 637 215

Submitted for the Project Viva - Voce Examination held on 11

Internal Examiner

External Examiner

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

TIRUCHENGODE-637 215,

NAMAKKAL DI. TAMIL NADU.

BONAFIDE CERTIFICATE

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

SIGNATURE

Dr.B.KALAAVATHI M.E.,Ph.D.,

HEAD OF THE DEPARTMENT

PROFESSOR & HEAD

Computer Science and Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637 215

M. BIJ ATIG

Ms.M.PRIYANKA M.E.,

SUPERVISOR

ASSISTANT PROFESSOR

Computer Science and Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637 215

Submitted for the university project viva-voice Examination held on 11-04-2-016

Internal Examiner

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY.

K. S. R. KALVI NAGAR.

TIRUCHENGGDE-637-215,

NAMAKKALDE TAMELIJADU.

External Examiner

Page 14 of 206

BONAFIDE CERTIFICATE

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

Dr. B. KALAAVATHI

HEAD OF THE DEPARTMENT

PROFESSOR

Department of Computer Science

and Engineering

KSR Institute for Engineering and

Technology,

Tiruchengode-637 215

Miss. N. SHARMILA

SUPERVISOR

ASSISTANT PROFESSOR

Department of Computer Science

and Engineering

KSR Institute for Engineering and

Technology,

Tiruchengode-637 215

Submitted for the project work Viva- Voice examination held on 11.04.2016

Internal Exam

K S. R INSTITUTE FOR ENGINEERING AND TECHNOLOGY, K. S. R. KALVINAGAR. TIRE CHENGODE-637, 215, NAMASKAL DI, YAMIE NADU.

BONAFIDE CERTIFICATE

Certified that this project report titled "AN APP FOR COLLEGE BUS ADMINISTRATION SYSTEM" is the bonafide work of "K.MYTHRI (731612104033), A.SWATHI (731612104054)" who carried out the project work under my supervision.

HEAD OF THE DEPARTMENT SUPERVISOR

Dr. B. KALAAVATHI

PROFESSOR & HEAD

Department of Computer Science Department of Computer Science and Engineering and Engineering

KSR Institute for Engineering and Technology

Tiruchengode – 637 215

Ms.M.PRIYANKA M.E.,

ASSISTANT PROFESSOR

K S R Institute for Engineering and

Tiruchengode - 637 215

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

. VA Internal Examiner

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

Certified that this project report "EMBEDDED BASED MONITORING AND CONTROLLING OF AN OVERHEAD TRANSMISSION LINE" is the bonafide work of "GOKILA SHRI B., GOKULRAJ M., PRASANTH P., SATHISH R." who carried out their project work under my supervision.

SIGNATURE

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

Head of the Department,

Professor,

Electrical and Electronics

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode-637215.

SIGNATURE

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

Supervisor,

Professor,

Electrical and Electronics

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode-637 215.

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

INTERNAL EXAMINER

PENCIPAL,

EXTERNAL EXAMINER

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

Certified that this project report "RASPBERRY PI BASED SMART BILLING AND AUTOMATED TROLLEY FOLLOWER IN SHOPPING PLAZA" is the bonafide work of "FAZIL AHAMED S.S., JANANI N., SATISH R., VIMALANATHAN C." who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT

Professor& Head

Electrical and Electronics

Engineering,

K 8 R Institute for Engineering and

Technology.

Tiruchengode-637 215.

SIGNATURE

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

SUPERVISOR

Professor

Electrical and Electronics

Engineering,

K S R Institute for Engineering and

Technology.

Tiruchengode-637 215.

Submitted for the Project work Viva-Voce held on -11-12-12-16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRÍNCIPAL,

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

TIRUCHENGODE - 637 215,

NAMAKKAL DI, TAMIL NADU.

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

SIGNATURE

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

HEAD OF THE DEPARTMENT

Professor & Head

Electrical and Electronics Engineering.

K S R Institute for Engineering

and Technology,

Tiruchengode-637 215

SIGNATURE

Mr. C.SANTHAKUMAR

M.E..(Ph.D)., M.B.A., MISTE.,

SUPERVISOR

Assistant Professor

Electrical and Electronics

Engineering.

K S R Institute for Engineering

and Technology,

Tiruchengode-637 215

Submitted for the Project work Viva-Voce held on 11.4.16

INTERNAL EXAMINER

PRINCIPAL,

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED HOME AUTOMATION USING RASPBERRY PI B+" is the bonafide work of "ARUNPRABHU L, DEEPIKAASRI M, PRIYADHARSHINI R, RAJKUMAR P" who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF DEPARTMENT

Electrical and Electronics

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode-637 215.

SIGNATURE

Mr. T.SRIHARI M.E.

SUPERVISOR

Electrical and Electronics

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode-637 215.

Submitted for the Project work Viva-Voce held on 11.4.201h

INTERNAL EXAMINAR

EXTERNAL EXAMINAR

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

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

SIGNATURE

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

HEAD OF THE DEPARTMENT

Professor & Head

Electrical and Electronics

Engineering,

K S R Institute for Engineering

and Technology.

Tiruchengode-637 215.

sid Naturalis

Mr. Y. KALIMUTHU M.E.,

SUPERVISOR

Assistant Professor

Electrical and Electronics

Engineering,

K S R Institute for Engineering

and Technology.

Firuchengode-637 215.

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

INCERNAL EXAMINER

EXTERNAL EXAMINER

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

OF TRANSFORMERLESS DYNAMIC VOLTAGE RESTORER" is the bonafide work of "DEEPAN PRABU J.M., MATHAN G., SUJI R., VASANTHAKUMAR N." who carried out their project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT

Professor & Head

Electrical and Electronics

Engineering,

KSR Institute for Engineering and

Technology.

Tiruchengode-637 215.

SIGNATŬRE

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

SUPERVISOR

Assistant Professor

Electrical and Electronics

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode-637 215.

Submitted for the Project work Viva-Voce held on -11.04.2016

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

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

SIGNATURE

SIGNATURE

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

Mr.S.VELMURUGAN

M.E.,(Ph.D).,

HEAD OF DEPARTMENT

SUPERVISOR

Professor &head

Assistant professor

Electrical and Electronics

Electrical and Electronics

Engineering,

Engineering,

K S R Institute for Engineering and

K S R Institute for Engineering and

Technology,

Technology,

Tiruchengode-637 215.

Tiruchengode-637 215.

Submitted for the Project work Viva-Voce held on 11.04.2016

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
TIRUCHENGODE - 837 215,
NAMAKKAL D., TAMIL NADU.

MULTISOURCE INVERTER USING ARDUINO" is the bonafide work of "MAKESHKANNAN P., SIVAKUMAR S., DEEPAK R.," who carried out their project work under my supervision.

SIGNATURE

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

SIGNATURE

Mr.L.NISHANTH M.E.,

BEAD OF THE DEPARTMENT

Professor& Head

Dectrical and Electronics
Engineering.

K S R Institute for Engineering and Technology.

Timuchengode-637215.

SUPERVISOR

Assistant Professor

Electrical and Electronics

Engineering,

K S R Institute for Engineering

and Technology.

Tiruchengode-637 215.

Submitted for the Project work Viva-Voce held on 11.04.16

RNAL EXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

Certified that this project report "REAL TIME SENSORLESS TEMPERATURE MONITORING OF INDUCTION MOTOR" is the bonafide work of "ASHOK KUMAR M., NAVEENKUMAR S., YAJANRAJ P., PAVITHRA V.." who carried out the project work under my supervision.

SIGNATURE

DER JEVABHARATH M.E., Ph.D.,

HEAD OF THE DEPARTMENT

Protessor& Head

Electrical and Plectronics

engineering

KSR Institute for Engineering and

Technology.

Tirochengo de-637 215.

SIGNATURE

Mr.P.SHANMUGA ARAVIND M.E.

SUPERVISOR

Assistant professor

Electrical and Electronics

Engineering.

K S R Institute for Engineering and

Technology.

Tiruchengode-637 215.

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

STERVAL EXAMINER

EXTERNAL EXAMINER

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

Certified that this project report "DESIGN AND IMPLEMENTATION OF LOW COST DISTRIBUTION TRANSFORMER MONITORING SYSTEM FOR A REMOTE ELECTRIC POWER GRID" is the bonafide work of "ARUN PRASANTH R., HEMA PRIYA C., MUTHURAJA M., RAMYA V., "who carried out their project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT

Professor& Head

Electrical and Electronics Engineering,

K S R Institute for Engineering

And Technology,

Tiruchengode-637215

SIGNATURE 5/4/4

Mr. S.NIRMAL KUMAR M.E.,

SUPERVISOR

Assistant Professor

Electrical and Electronics Engineering,

K S R Institute for Engineering

And Technology.

Tiruchengode-637 215

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

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

Certified that this project report "MODELING OF SINUSOIDAL PWM CONTROLLED FOUR SWITCH THREE PHASE SEPIC CONVERTER" is the bonafide work of "JEESRIYA M., JEYAKANNAN R., SRINIVASAN M., SUGANYA D." who carried out their project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor.

Electrical and Electronics Engineering.

KSR Institute for Engineering and Technology,

Tiruchengode-637215.

SIGNATURE

Mr.V.KIRUBAKARAVELAN, M.E.,

SUPERVISOR,

Assistant Professor,

Electrical and Electronics

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode-637 215.

Submitted for the Project work Viva-Voce held on -11.04.2016

INTERNAL EXAMINER

PRINCIPAL.

EXTERNAL EXAMINER

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

Page 27 of 206

Certified that this project report "PUBLIC ANNOUNCEMENT SYSTEM USING MOBILE MODULE" is the bonafide work of "MONISHAP., VASANTHRAJ S.P., KAMALESH T., MURUGAN G.," who carried out their project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT

Professor& Head

Electrical and Electronics Engineering.

K S R Institute for Engineering and Technology.

Tiruchengode-637215.

SIGNATURE

Mr. S.KRISHNA KUMAR M.E.,

SUPERVISOR

Assistant Professor

Electrical and Electronics

Engineering.

K S R Institute for Engineering and

Technology,

Tiruchengode-637 215.

Submitted for the Project work Viva-Voce held on 11/04/16

INTERNAL EXAMINER

EXTERN.

EXTERNAL EXAMINER

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

Certified that this project report "PREDICTIVE ANALYSIS OF IOT BASED PERSONAL HEALTH CARE SYSYTEM" is the bonafide work of "ELAKKIYA S., INBARATHI P.I, SANTHOSH KUMAR G., VISHNU R.," who carried out their project work under my supervision.

SIGNATURE

DERJEYABHARATH M.E., Ph.D.,

HEAD OF THE DEPARTMENT

Professor& Head

Electrical and Electronics Engineering,

K.S.R. Institute for Engineering and Technology,

Truchengode-637 215.

SIGNATURE

Mr. S.SURYA PRAKASH M.E..

SUPERVISOR

Assistant Professor

Electrical and Electronics Engineering,

K S R Institute for Engineering and Technology,

Tiruchengode-637 215.

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

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

Certified that this project report "TRANSFORMERLESS SINGLE PHASE ACTIVE POWER FILTER FOR HARMONIC REDUCTION" is the bonafide work of "DIVYA R., KARTHIK S., PRABHU C., PRASANTH N., "who carried out their project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT

Professor& Head

Electrical and Electronics Engineering.

K 8 R Institute for Engineering

And Technology.

Tiruchengode-637215.

K.EV-+

SIGNATURI

Ms. R. ELENTHENDRAL M.E.,

SUPERVISOR

Assistant Professor

Electrical and Electronics Engineering,

K S R Institute for Engineering

And Technology.

Tiruchengode-637 215.

Submitted for the Project work Viva-Voce held on 41.04.2016

STERNAL EXAMINER

EXTERNAL EXAMINE

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

BONAFIDE CERTIFICATE

Certified that this project report "DIODE-FREE T-TYPE THREE-LEVEL NEUTRAL-POINT-CLAMPED INVERTER FOR LOW-VOLTAGE RENEWABLE ENERGY SYSTEM "is the bonafide work of "BHUVANESHWARAN T., NAVEENSIVA S., RAJKAMAL K., SHANKAR K." who carried out the project work under my supervision.

SIGNATURE

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

駐EAD OF DEPARTMENT

Professor &head

Electrical and Electronics

Engineering.

K S R Institute for Engineering and

Technology.

Tisruchengode-637 215.

SIGNATURE

Mr.A.THANGARAJU M.E..

SUPERVISOR

Assistant professor

Electrical and Electronics

Engineering.

K S R Institute for Engineering and

Technology,

Tiruchengode-637 215.

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

INTERNAL EXAMINER

EXTERNAL EXAMINER

K. S. R. INSTITUTE FOR ENGINEERING AND TECHNOLOGY, K. S. R. KALVI NAGAR, TIRUCHENGCOE - 837 215, NAMAKKAL DI, TAMIL NADU. Page 31 of 206

Certified that this project report "MULTI PHASE BOOST CONVERTER FOR SOLAR BATTERY CHARGING SYSTEM" is the bonafide work of "DEEPAK RAJA E., KEERTHANA K., SHEIK IMRAN Y., VANITHA N.," who carried out their project work under my supervision.

SIGNATURE

DERJEYABHARATH M.E., Ph.D.,

SIGNATURE

Ms.S.SUDHA M.E.,

HEAD OF THE DEPARTMENT

Professor& Head

Electrical and Electronics

Engineering.

K.S.R. Institute for Engineering and

Textition logitic

Timochemunde-637215.

SUPERVISOR

Assistant Professor

Electrical and Electronics

Engineering,

K S R Institute for Engineering and

Technology.

Tiruchengode-637 215.

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

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

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

SIGNATURE

DER JEYABHARATH M.E., Ph.D.,

SIGNATURE

Mr.S.KARTHIKEYAN M.E.,

線EAD OF THE DEPARTMENT

Professor& Head

Electrical and Electronics Engineering.

K S R Institute for Engineering and Fectionology,

Timuchemende-637215.

SUPERVISOR

Assistant Professor

Electrical and Electronics

Engineering.

K S R Institute for Engineering and

Technology,

Tiruchengode-637 215.

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

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

Page 33 of 206

BONAFIDE CERTIFICATE

Certified that this project report "SOLAR TRACKER ROBOT USING RASPBERRY PI" is the bonafide work of "V.BALASARAVANAN., M.POORNIMA., K.V.THAMARAI KANNAN." who carried out the project work under my supervision.

SIGNATURE

SIGNATURE

DERJEYABHARATH M.E., Ph.D.,

Mr.S.BOOBALAN M.E.,

HEAD OF THE DEPARTMENT

SUPERVISOR

Professor& Head

Assistant professor

Electrical and Electronics

Electrical and Electronics

Engineering,

Engineering,

K S R Institute for Engineering and

K S R Institute for Engineering and

Technology.

Technology,

Tiruchengode-637 215.

Tiruchengode-637 215.

Submitted for the Project work Viva-Voce held on 11.4.2016

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

Certified that this project report "FINGERVEIN RECOGNITION USING ARDUINO UNO CONTROLLER" is the bonafide work of "ABINAYA SANGAMITHRA T A (731612106003), ANUPRIYA C (731612106008) and ASHA S (731612106010)" who carried out the project work under my supervision.

SIGNATURE

Prof.R.NANDAKUMAR, M.E., (Ph.D)

HEAD OF THE DEPARTMENT

Department of ECE,

SSR Institute for Engineering

and Technology,

Truchengode-637215.

SIGNATÜRE

Mr.R.TAMILMANI, M.E.,

SUPERVISIOR

Assistant Professor,

Department of ECE,

K S R Institute for Engineering

and Technology,

Tiruchengode-637215.

Submitted for the project viva voice Examination held on. U. Q. 4... 2016

temal Examiner

External Examiner

PRINCIPAL,

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

TIRUCHENGODE-637 215,

NAMAKKAL DI, TAMIL NADU,

BONAFIDE CERTIFICATE

the bonafide work of "GOMATHI D (731612106024), KEERTHIKA P (731612106045), KRISHNAMOORTHY C (731612106047)"who carried out the project work under my specialism.

SIGNATURE

W- Z NANDAKUMAR, M.E., (Ph.D)

HEAD OF THE DEPARTMENT

Photessor.

Department of ECE,

USR Institute for Engineering

Technology,

Thruchengode-637215.

SIGNATURE

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

SUPERVISIOR

Professor,

Department of ECE,

K S R Institute for Engineering

and Technology,

Tiruchengode-67215.

Examiner

External Examiner

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

BONAFIDE CERTIFICATE

Certified that this project report "AUTOMATIC DETECTION AND MEASUREMENT OF CISTERNA MAGNA IN FETAL BRAIN" is the bestafide work of "HEMALATHA T (731612106031), MANIMEKALAI K 731612106052),PONMANI P (731612106308)" who carried out the project acts under my supervision.

SER WANDAKUMAR M.E.,(Ph.D). FEAD OF THE DEPARTMENT,

and Communication

100 % Excitute for Engineering and

michengode-637215

SIGNATURE

Mr.V PRAVEEN KUMAR M.E.,

SUPERVISOR.

Assistant Professor

Electronies and Communication

Engineering

K S R Institute for Engineering and

Technology

Tiruchengode-637215

Namakkal.

resided for the project work viva-voce held on. 11:04.8016

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

K. S. R. KALVI NAGAR.

TIRUCHENGODE-637 215, NAMAKKAL Dt. TAMIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "HUMAN DETECTING SYSTEM USED FOR RESCUE AND DEFENCE" is the bonafide work of "INDHUMATHI M (731612106032), KANNIYAMMAL M (731612106039), KAVIPRIYA S (731612106042)" who carried out the project work under my supervision.

Prof.R.NANDAKUMAR,M.E.,(Ph.D)

HEAD OF THE DEPARTMENT

Electronics and Communication

Engineering.

K S R Institute for Engineering and Technology,

Tiruchengode - 637215,

Namkkal.

Mr.H.S.SENTHIL KUMAR, M.E.,

SUPERVISOR

Assistant professor,

Electronics and Communication

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode - 637215,

Namkkal.

Submitted for project work viva - voce held on: 11.01 .2016

TIRUCHENGODE-637 215, NAMAKKAL DI, TAMIL NADU.

APRIL 2016

BONAFIDE CERTIFICATE

lemified that this project report "PLANT DISEASE CLASSIFICATION SING SVM CLASSIFIER" is bonafide work of "S.AARTHI(731612106002), ABIRAMI(731612106005), M.HARIHARASUDHAN(731612106029)" who arried out the project work under my supervision.

Nandakumar, M.E., (Ph.D).,

EAD OF THE DEPARTMENT

Decembers and Communication

Children Control 2

10 4 A secrete for Engineering

ing Technology,

Temperature 637215.

SIGNATURE

Mr.T.Marthandan.M.E.,MBA.,

PROJECT SUPERVISOR

Assistant Professor

Electronics and Communication

Engineering,

K S R Institute for Engineering

and Technology,

Tiruchengode-637215

Namakkal.

thed for the university project presentation held on: 11.04.2016

Examiner

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

BONAFIDE CERTIFICATE

Cartified that this project report "FIRE DETECTION AND FIRE SIGNATURE SING COLOR MODELS FOR SECURITY" is the bonafide work of BHARATHI S (Reg.no:731612106013), ELANGO N (Reg.no:731612106017), GOKILAPRIYA S (Reg.no:731612106022)" who carried out the project work under my supervision.

GNATURE

R.NANDAKUMAR M.E., (Ph.D).

BEAD OF THE DEPARMENT

Professor

Electronics and Communication

Engineering,

SR Institute for Engineering and

Technology,

Truchengode 637215,

Namakkal.

SIGNATURE

DIGITALORE

Mrs.P.VIDHYA M.E.,

SUPERVISOR

Assistant Professor

Electronics and Communication

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode 637215,

Namakkal.

Submitted for the project work viva-voce held on..!!: 94:2016......

NTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

TIRUCHENGODE-637 215,

NAMAKKALDI, TAMIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "SMART HOME USING IoT" is the work of "M.ANITHA (731612106007) and V.KALAIVANI (731612106037)" who carried out the project work under my supervision.

SIGNATURE

NANDAKUMAR, M.E. (Ph.D).,

SEAD OF THE DEPARTMENT

Head.

the ement of Electronics and

Engineering,

3 & Enstitute for Engineering and

theheology.

angode, Namakkal. 637215

A STORILLO SIGNATURE

Mr.A.PRABHAKARAN, M.E.,

SUPERVISOR

Assistant Professor.

Department of Electronics and

Communication Engineering,

K S R Institute for Engineering and

Technology.

Tiruchengode, Namakkal.637215

and for project report the University Viva-Voce Examination held

04 1.6....

EXAMINER

EXCERNAL EXAMINER

PRINCIPAL.

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

BONAFIDE CERTIFICATE

Certified that this project report "AUTOMATIC VEHICLE ACCIDENT DETECTION AND MESSAGING SYSTEM USING GSM AND GPS MODEM" is the bonafide work of " DHARANI S (731612106015),GAYATHRI S (731612106020), JANANI S (731612106033) " who carried out the project work under my supervision.

Prof.R.NANDAKUMAR M.E.,(Ph.D). HEAD OF THE DEPARTMENT,

Professor

Electronics and Communication

Engineering

KSR Institute for Engineering and

Technology

Tiruchengode-637215

Namakkal.

Ms.B.LATHA M.E.,

SUPERVISOR,

Assistant Professor

Electronics and Communication

Engineering

K S R Institute for Engineering and

Technology

Tiruchengode-637215

Namakkal.

Submitted for the project work viva-voce held on...!!:4. 206.

INTERNAL EXAMINER

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

HAMAKKAL DI, TAMIL NABU.

ANNA UNIVERSITY:: CHENNAI 600 025 BONAFIDE CERTIFICATE

Certified that this project report "ADVANCED DRIVER ASSISTANCE SYSTEM-SPEED BUMP DETECTION" is the bonafide work of -ADITHYAPRIYA V (731612106006), JEYASRI B (731612106035), GOWSALYA M (731612106026), and MANIVANNAN S (731612106053)" Who carried out the project work under my supervision.

Prof.R.NANDAKUMAR M.E.,(Ph.D)

HEAD OF THE DEPARTMENT

Electronics and Communication Engineering,

K S R Institute for Engineering and K S R Institute for Engineering and Technology,

Tiruchengode-637215.

Mrs.W.DEVAPRIYA M.E.,(Ph.D)

SUPERVISOR

Assistant Professor

Electronics and Communication

Engineering,

Technology,

Tiruchengode-637215.

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

K. S. R. INSTITUTE FOR ENGINEERING AND The SLOCK

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

BONAFIDE CIRTIFICATE

Certified that this project report "GSM BASED ELECTRICTY BILLING VIA SMS" is the bonafide work of "BATHRUTHEEN H (731612106012), DEVARAJ P (731612106014), GOWTHAM S (731612106023) LOHA PRIYA E 1731612106050)" who carried out the project work under my supervision.

SIGNATURE

READ OF THE DEPARTMENT,

Professor

Electronics and Communication Engineering,

SSR Institute for Engineering and and Technology,

Timochengode-637215.

Mamakkal.

SIGNATURE

Mr.P.PREMKUMAR M.E.,

SUPERVISOR

Assistant Professor

Electronics and Communication Engineering,

KSR Institute for Engineering and Technology,

Tiruchengode-637215.

Namakkal.

sessented for the project work viva-voice held on. 11: 04: 206......

INTERNAL EXAMINER

EXTURNAL EXAMINE

PRINCIPAL.

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

ANNA UNIVERSITY :: CHENNAI 600025 BONAFIDE CERTIFICATE

Certified that this project report "FACE RECOGNITION SYSTEM USING IMAGE PROCESSING AND NEURAL NETWORK" is the bonafide work of "DHEEPIKA K (731612106016), GEETHA V (731612106021), GOKILAVANI C (731612106023)" who carried out the project work under my supervision.

,

MER VENKATACHALAM M.E.,

HEAD OF THE DEPARTMENT.

PIOLR NANDAKUMAR M.E., (Ph.D).

SUPERVISOR,

Professor,

Assistant Professor

Electromes and Communication

Electronics and Communication

Engineering.

Engineering,

K S R Institute for Engineering and

K S R Institute for Engineering and

Technology.

Technology,

Timehengode-637215.

Tiruchengode-637215.

Namakkal.

Namakkal.

INTERNAL EXAMINER

PRINCIPAL.

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

TIRUCHENGODE-637 215, NAMAKKAL DI, TAMIL NADU.

ANNAUNIVERSITY:: CHENNAI-600025

BONAFIDE CERTIFICATE

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

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor & Flead/ECE

Electronics and Communication

Engineering,

K S R Institute for Engineering

and Technology,

Tiruchengode-637215,

Namakkal.

Strong Secret

SIGNATURE

Mr.S.DEEPAK M.E.,

SUPERVISOR,

Assistant Professor

Electronics and Communication

Engineering,

K S R Institute for Engineering

and Technology,

Tiruchengode-637215,

Namakkal.

Submitted for the project work viva-voce held on . 11. DA: 2016.

INTERNAL EXAMINER

PRINCIPAL.

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

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

BONAFIDE CERTIFICATE

Certified that this project report "HEAD MOTION CONTROLLED WHEEL CHAIR USING MEMS" is the bonafide work of "GUNA V, HARI VENKATESH C, and MADHAN KUMAR V P" who carried out the project work under my supervision.

SIGNATURE

Prof.R.NANDAKUMAR, M.E., (Ph.D)

HEAD OF THE DEPARTMENT

PROFESSOR

Electronics and communication Engineering

K S R Institute for Engineering and Technology Tiruchengode-637215 Lych select

SIGNATURE

Dr.R. VENKATESH

SUPERVISOR

PROFESSOR

Electronics and Communication Engineering

KSR Institute for Engineering and Technology Tiruchengode-637215

Submitted for the Project work Viva- Voce held on -11. 64-16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL.

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

ANNA UNIVERSITY :: CHENNAI 600025 BONAFIDE CERTIFICATE

Certified that this project report "DEEP REPRESENTATION FOR IRIS AND FACE SPOOFING DETECTION "is the bonafide work of "GAYATHRI D (Reg.no:731612106019), LOGESHWARAN P (Reg.no:731612106049), VISHNUVARTHAN R (Reg.no:731612106313)" who carried out the project work under my supervision.

Mr.R.NANDAKUMAR M.E,(Ph.D) HEAD OF THE DEPARTMENT Professor Electronics and Communication

Engineering,

K S R Institute for Engineering and Technology,

Tiruchengode 637215, Namakkal.

Mr.V.ARUN M.E, SUPERVISOR

Assistant Professor

Electronics and Communication

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode 637215,

Namakkal.

Submitted for the project work viva-voce held on...11:.04:.2016.....

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

BONAFIDE CERTIFICATE

Certified that this project report "ROI BASED MEDICAL IMAGE COMPRESSION USING ANAMORPIC STRETCH TRANSFORM AND SPIHT" is the bonafide work of "BALAMURUGAN R, ANBARASAN M, and ANBAZHAGAN T" who carried out the project work under my supervision.

SIGNATURE

Prof.R.NANDAKUMAR, M.E., (Ph.D)

Dr.A.N.NANDAKUMAR

HEAD OF THE DEPARTMENT

SUPERVISOR

PROFESSOR

PROFESSOR

Electronics and communication Engineering

Electronics and Communication Engineering

K S R Institute for Engineering and Technology

KSR Institute for Engineering and Technology Tiruchengode-637215

Tiruchengode-637215

Submitted for the Project work Viva- Voce held on -----

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

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

SIGNATURE

Prof.R.NANDAKUMAR M.E.,(Ph.D). HEAD OF THE DEPARTMENT,

Electronics and Communication

Engineering K S R Institute for Engineering and

Technology

Tiruchengode-637215

Namakkal.

SIGNATURE TIGHT

Mrs.K.GEETHA M.E.,

SUPERVISOR,

Assistant Professor

Electronics and Communication

RNAL EXA

Engineering

K S R Institute for Engineering and

Technology

Tiruchengode-637215

Namakkal.

Submitted for the project work viva-voice held on...!! . 2016......

INTERNAL EXAMINER

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

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

BONAFIDE CERTIFICATE

Certified that this project report "EFFICIENT IMAGE RETRIVAL USING MODIFING SHAPE DISCRIPTOR" is the bonafide work of "KARTHICK G (Reg.no:731612106040), KAVIN KUMAR R (Reg.no:731612106041), KAVIYARASAN J (Reg.no:731612106043)" who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPATMENT

Professor

Electronics and Communication

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode 637215,

Namakkal.

SIGNATURE

Mr. G. GOWTHAM RAJ M.E.

SUPERVISOR

Assistant Professor

Electronics and Communication

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode 637215,

Namakkal.

INTERNAL EXAMINER

XIERNAL EXAMINER

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

TIRUCHENGODE-637 215,

NAMAKKAL DUTAMIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "ADVANCED VEHICLE SECURITY SYSTEM WITH THEFT CONTROL" is the bonafide work of "JAYAVEL P (731612106034), JIJO JACOB (731612106036), ARAVINDRAJ M (731612106303), MANIKANDAN M(731612106307)" who carried out the project work under my supervision.

Prof.R.NANDAKUMAR M.E.,(Ph.D).

HEAD OF THE DEPARTMENT,

Professor

Electronics and Communication

Engineering

K S R Institute for Engineering and

Technology

Tiruchengode-637215

Namakkal.

The Til July

Mr.N.RAM KUMAR.M.E

SUPERVISOR.

Assistant Professor

Electronics and Communication

Engineering

K S R Institute for Engineering and

Technology

Tiruchengode-637215

Namakkal.

Submitted for the project work viva-voce held on - 04 - 2016

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

BONAFIDE CERTIFICATE

Certified that this project report "CONTROLLING THE BOILER TEMPERATURE OF TEA LEAVES BY USING ANDROID APPLICATION AND ARDUINO UNO" is the bonafide work of "ELAVARASI R (731612106018), **GOMATHI** G (731612106025), DIVYA BHARATHI S (731612106306)" who carried out the project work under my supervision.

Prof.R.NANDAKUMAR M.E.,(Ph.D).

HEAD OF THE DEPARTMENT,

Professor

Electronics and Communication

Engineering

KSR Institute for Engineering and

Technology

Tiruchengode-637215

Namakkal.

Mr.T.SENTHIL M.E

SUPERVISOR.

Assistant Professor

Electronics and Communication

Engineering

K S R Institute for Engineering and

Technology

Tiruchengode-637215

Namakkal.

Submitted for the project work viva-voce held on...!.! DA. 20.16......

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

NAMAKKAL Dt, TAMIL NADU,

ANNA UNIVERSITY:: CHENNAI 600 025 BONAFIDE CERTIFICATE

project report "UNDERWATER IMAGE Certified that this ENHANCEMENT USING DWT AND CLAHE ALGORITHM" is the PANNEER SELVAM A bonafide work of NAVEEN M (731612106065), (731612106067). PARAMASIVAN N (731612106068) who carried out the project work under my supervision.

Prof.R.NANDAKUMAR, M.E., (Ph.D.)

HEAD OF THE DEPARTMENT

Department of ECE

KSR Institute for Engineering

and Technology

Tiruchengode-637 215

Namakkal.

Mr.P.GOVIND RAJU, M.E.,(Ph.D)

SUPERVISOR

Assistant Professor

Department of ECE

KSR Institute for Engineering

and Technology

Tiruchengode-637 215

Namakkal.

Submitted for the Project viva-voce held on 1104 2016

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

BONAFIDE CERTIFICATE

Certified that this project report "AN ENHANCED QoS BASED HYBRID SOURCE ROUTING PROTOCAL OF MANET" is the bonafide work of "MOHANAPRASATH.B (731612106059), SURESHKUMAR.P (731612106101) and SABARIGIRI.P (731612106310)" who carried out the project work under my supervision.

SIGNATURE

Prof. R.NANDAKUMAR M.E.,(Ph.D). HEAD OF THE DEPARTMENT,

Electronics and Communication
Engineering,
K S R Institute for Engineering and
Technology,
Tiruchengode – 637215
Namakkal.

SIGNATURE

Mr. V. ARUN M.E.,

SUPERVISOR

Assistant Professor

Electronics and Communication Engineering, K S R Institute for Engineering and Technology, Tiruchengode – 637215

Namakkal.

Submitted for the project work viva-voice held on. 11-04-2016

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

ANNA UNIVERSITY : CHENNAI 600 025 BONAFIDE CERTIFICATE

Certified that this Project Report on "IMPROVED REVERSIBLE DATA HIDING THROUGH IMAGE USING DIFFERENT HIDING AND COMPRESSION TECHNIQUES" is the bonafide work of "RAJKUMAR S (731612106081), RASAKUMAR M (731612106084), SANGEETH S (731612106087)" who carried out the project under my supervision.

SIGNATURE

Namakkal.

Prof.R.NANDAKUMAR,M.E.,(Ph.D.)
HEAD OF THE DEPARTMENT.

Electronics and Communication Engineering, KSR Institute for Engineering and Technology, Tiruchengode – 637215 SIGNATURE

Mr.P.PREMKUMAR, M.E.,

SUPERVISOR,

Assistant Professor,
Electronics and Communication
Engineering,
KSR Institute for Engineering and
Technology,
Tiruchengode – 637215

Namakkal.

Submitted for the project work viva-voce held on-0H-1b

EXTERNAL EXAMINER

INTERNAL EXAMINES

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

TIRUCHENGODE-637 215,

NAMAKKAL DI, TAMIL NADU,

BONAFIDE CIRTIFICATE

Certified that this project report "Channel estimation technique based on multipath fading system using OFDM" is the bonfire work of "ARULJOTHI S (731612106304), SANTHOSHKUMAR A(731612106311) and VELUMANI P (731612106312)" who carried out the project work under my supervision.

Prof.R.NANDAKUMAR,M.E.,(Ph.D)

HEAD OF THE DEPARTMENT,

Electronics and Communication

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637215

Namakkal.

Mr.K.GEETHA, M.E.,

SUPERVISOR,

Assistant Professor,

Electronics and Communication

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637215

Namakkal.

Submitted for the project work viva-voce held on ... Dh. ... b.

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

BONAFIDE CERTIFICATE

Certified that this Project Report "COMBINED ALGORITHM OF MUTILEVEL SWT AND DWT BASED SATELLITE IMAGE ENHANCEMENT USING IMAGE FUSION" is the bonafide work of "MOHAN B (Reg.no:731612106058), MOHANRAJ A (Reg.no:731612106061), ZAHEER HUSAIN F (Reg.no:731612106107)" who carried out the project under my supervision.

SIGNATURE

Prof.R.NANDAKUMAR,M.E.,(Ph.D.)
HEAD OF THE DEPARTMENT,

Electronics and Communication Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637215

Namakkal.

SIGNATURE

Mr. G. GOWTHAM RAJ, M.E.,

SUPERVISOR,

Assistant Professor,

Electronics and Communication

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637215

Namakkal.

Submitted for the project work viva-voce held on ...!!!!!

EXTERNAL EXAMINER

INTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

Certified that this project report "TRAFFIC SIGN DETECTION AND RECOGNITION USING SUPPORT VECTOR MACHINES" is the bonafide work of "PRABA.A (731612106071), RAASSHIKA.T (731612106076), SARMILADEVI.V (731612106091)" who carried out the project work under my supervision.

SIGNATURE

Prof. R.NANDAKUMAR M.E.,(Ph.D)

) N

Mrs. W.DEVAPRIYA M.E.,(Ph.D)

HEAD OF THE DEPARTMENT

SUPERVISOR

Assistant Professor,

Electronics and Communication

Engineering

Electronics and Communication

Engineering

K S R Institute for Engineering and

Technology

K S R Institute for Engineering and

Technology

Tiruchengode-637 215.

Tiruchengode-637 215.

INTERNALEXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

Certified that this project report "MEASUREMENT AND DETECTION OF HUMIDITY IN IRRIGATION PROCESS" is bonafide work of MENAKA P (731612106057), POORANI B K (731612106070), UMA MAHESWARI K (731612106103) who carried out the project work under my supervision.

Prof.R.NANDAKUMAR, M.E., (Ph.D).,

HEAD OF THE DEPARTMENT

Electronics and Communication

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637215.

Namakkal.

Mr.P.GOVINDARAJU, M.E., (Ph.D).,

SUPERVISOR

Electronics and Communication

Engineering

KSR Institute for Engineering and

Technology,

Tiruchengode - 637215.

Namakkal.

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

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

ANNA UNIVERSITY:: CHENNAI 600 025 BONAFIDE CERTIFICATE

Certified that this project report "SEAMLESS AND EFFICIENT WI-FI BASED INTERNET ACCESS FROM MOVING VEHICLES" is the bonafide NIVETHA R(761612106066), work of MEGALA N(731612106055), TAMILARASI P(731612106102) who carried out the project work under my supervision.

Prof.R.NANDAKUMAR, M.E., (Ph.D.)

HEAD OF THE DEPARTMENT

Department of ECE

KSR Institute for Engineering

and Technology

Tiruchengode-637 215

Namakkal.

Mr.N.RAMKUMAR, M.E.,

SUPERVISOR

Assistant Professor

Department of ECE

KSR Institute for Engineering

and Technology

Tiruchengode-637 215

Namakkal.

Submitted for the Project viva-voice held on 11.04.2016

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

BONAFIDE CERTIFICATE

Certified that this project report "RFID BASED SECURITY SYSTEM FOR SCHOOL CHILDREN" is the bonafide work of "B.PAVITHRA(731612106069)., M.SARANYA(731612106090).,

P.REVATHI(731612106085)." who carried out the project work under my supervision.

SIGNATURE

Prof R.NANDAKUMAR M.E.,(Ph.D)

HEAD OF THE DEPARTMENT

Professor & Head,

Electronics & Communication

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode-637215.

SIGNATURE

T.SENTHIL M.E

SUPERVISOR

Assistant professor,

Electronics & Communication

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode-637215.

Submitted for the university viva voce examination held on .!! Of 12016

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

Certified HOME that project "IOT BASED this AUTOMATION SYSTEM FOR ELDERLY CARE USING EMBEDDED SYSTEM" is bonafide work of "SANGEETHA Y (731612106089), SUNDARI R (731612106099), and VIDHYA R (731612106104)" who carried out the project work under my supervision.

SIGNATURE

SIGNATURE

Prof.R.NANDAKUMAR, ME., (Ph.D.)

Mrs.K.J.UMA, ME.,

HEAD OF THE DEPARTMENT

SUPERVISOR & Asst. Professor

Electronics

and

Communication Electronics

and Communication

Engineering,

Engineering,

KSR Institute for Engineering and

Technology,

KSR Institute for Engineering and

Technology

Tiruchengode-637215.

Tiruchengode-637215.

Namakkal.

Namakkal.

Submitted for the Project work Viva-Voce held on

11.4.16

INTERNAL EXAMINER

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

NAMAKKAL DI, TAMIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "AUTOMATED BLOOD BANK USING PERIPERAL INTERFACE CONTROLLER" is the bonafide work of "G.RAMYAKRISHNAN, T.PRIYARANI, M.VIGNESH." who carried out the project work under my supervision.

SIGNATURE

Prof.R.Nandakumar, M.E., (Ph.D).,

HEAD OF THE DEPARTMENT

SIGNATURE

Mr.N.K.Shankar, M.E.,

SUPERVISOR

Professor&Head

Department of ECE,

KSR Institute for Engineering and

Technology,

Tiruchengode-637215

Assistant professor,

Department of ECE,

KSR Institute for Engineering and

Technology,

Tiruchengode-637215

Submitted for the university viva voce examination held on .11- 29:2016

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

Certified that this project report "AUTOMATIC INFORMATION UPDATOR FOR TEXTILE INDUSTRY" is the bonafide work of "PRIYANAK V (731612106074), RAJESWARI V (731612106080), SANGEETHA A (731612106088)" who carried out the project work under my supervision,

SIGNATURE

Prof.R.NANDAKUMAR, M.E.,(Ph.D.)

HEAD OF THE DEPARTMENT,

Professor & Head,

Electronics and Communication

Engineering,

K S R Institute for Engineering

and Technology,

Tiruchengode -637215.

Namakkal.

SIGNATURE

MISS.J. DIVYA, M.E.,

SUPERVISOR,

Assistant Professor,

Electronics & Communication

Engineering,

K S R Institute for Engineering

and Technology,

Tiruchengode-637215.

Namakkal.

Submitted for the project work viva-voce held on

INTERNALEXAMINER

EXTERNALEXAMINER

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

Page 65 of 206

BONAFIDE CERTIFICATE

Certified that this project report "AN EFFICIENT DISTRIBUTED TRUST MODEL FOR WIRELESS SENSOR NETWORKS" is the bonafide S(731612106064),SATHIYAPRIYA "NANDHINI work (731612106093), SRUTHI S(731612106097)" who carried out the project work under my supervision.

SIGNATURE

Prof. R.NANDAKUMAR M.E.,(Ph.D). HEAD OF THE DEPARTMENT,

Electronics and Communication Engineering, K S R Institute for Engineering and Technology, Tiruchengode - 637215.

Namakkal.

Mr.S.NANDHAKUMAR. M.E.,

SUPERVISOR

Assistant Professor

Electronics and Communication

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode-637215

Namakkal.

Submitted for the project work viva-voice held on 11.04.2016

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

BONAFIDE CERTIFICATE

Certified that this project report "EFFICIENT BIOMEDICAL PARAMETER MONITORING USING ZIGBEE WIRELESS SENSOR NETWORKS" is the bonafide work of "SATHANA T (731612106092), SHANMATHI B (731612106094), SOWMIYA V (731612106096) "who carried out the project work under my supervision.

Prof. R.NANDAKUMAR M.E.,(Ph.D).

HEAD OF THE DEPARTMENT,

Electronics and Communication

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode - 637215.

Namakkal.

Mr.S.KARTHIK M.E.,

SUPERVISOR

Assistant Professor

Electronics and Communication

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode - 637215.

Namakkal.

Submitted for the project work viva-voce held on...........

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

BONAFIDE CIRTIFICATE

Certified that this project report "INTENSIVE PLANT GROWTH NURSING AND DISEASE RECTIFICATION" is the bonafide work of "PREETHI K (731612106072), RAJALAKSHMI K (731612106078), RAJASHREE S (731612106079)" who carried out the project work under my supervision.

SIGNATURE

Prof. R.NANDAKUMAR M.E.,(Ph.D.)

HEAD OF THE DEPARTMENT,

Electronics and Communication Engineering, K S R Institute for Engineering and Technology,

Tiruchengode - 637215.

Namakkal.

Co To 4)16

SIGNATURE

Mr.K.R.GOKUL ANAND M.E.,

SUPERVISOR

Assistant Professor

Electronics and Communication

Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode - 637215.

Namakkal.

Submitted for the project work viva-voice held on 11-4.2016

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRIN PAL.

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

ANNA UNIVERSITY :: CHENNAI 600025 BONAFIDE CERTIFICATE

Certified that this project report "FACE RECOGNITION FOR

ATTENDANCE USING PCA ALGORITHM" is the bonafide work of

" S.RAHAMATHUNNISHA (Reg.no:731612106077), S.MEKALA

(Reg.no:731612106056),

C.RAMYA

(Reg.no:731612106082),

A. SAMEENA YASMIN (Reg.no:731612106086)" who carried out

the project work under my supervision.

SIGNATURE

Prof.R.NANDAKUMAR, M.E.,(Ph.D)

HEAD OF THE DEPARTMENT,

Department of Electronics&

Communication Engineering,

KSR Institute for Engineering and

Technology, Tiruchengode-637215

Namakkal

SIGNATURE

Prof.R.NANDAKUMAR,, M.E.,(Ph.D)

SUPERVISOR,

Professor and Head,

Department of Electronics&

Communication Engineering,

KSR Institute for Engineering and

Technology, Tiruchengode-637215

Namakkal

Submitted for the project work viva-voce held on.ll: A.:.lb..

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRIN IPAL.

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

BONAFIDE CERTIFICATE

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

my superyision.

SIGNATURE DINIL

SIGNATURE

Prof. R.NANDAKUMAR M.E..(Ph.D).
HEAD OF THE DEPARTMENT,

Electronics and Communication Engineering. K S R Institute for Engineering and Technology. Tiruchengode - 637215. Namakkal. Mr.S.BOOPATHY M.E.,

SUPERVISOR

Assistant Professor

Electronics and Communication Engineering.
K S R Institute for Engineering and Technology,

Tiruchengode- 637215. Namakkal.

Submitted for the project work viva-voice held on...............................

INTERNAL EXAMINER

ENTERNAL EXAMINER

PRINTIPAL.

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

ANNA UNIVERSITY I CTIENNAL 600 028

BONALIDE CERTIFICATE

WEARABLE ANTENNA ON DIFFERENT SUBSTRATES OF WORK of "ALANOJ KUMAR K (731612106054), MOTHESH KUMAR A (7316121060654), MOTHESH KUMAR A (731612106063), SURENDAR J (731612106100)" who carried out the project work under my supervision.

SIGNATURE

SIGNATURE

Prof. R. NANDAKUMAR M.E., (Ph.D).

Mr.C.ASOKAN M.E.

HEAD OF THE DEPARTMENT.

SUPERVISOR

Assistant Professor

Electronics and Communication

Electronics and Communication

Engineering,

Engineering,

K S R Institute for Engineering and

K S R Institute for Engineering and

Technology,

Technology,

Tiruchengode - 637215.

Tiruchengode - 637215.

Namakkal.

Namakkal.

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

Certified that this project report "PROCESS OPTIMIZATION IN CAR SILL ASSEMBLY" is the bonafide work of "BHARADHAN S.P. (731612114305), ELAVARASAN.R (731612114308), GOGULNATHAN.R (731612114309), KATHIRAVAN.A (731612114312)" who carried out the project work under my supervision.

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

HEAD OF THE DEPARTMENT,

PROFESSOR,

DEPARTMENT OF MECHANICAL

ENGINEERING,

K.S.R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY.

IIRUCHENGODE-637215.

SIGNATURE.

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

SUPERVISOR,

PROFESSOR,

DEPARTMENT OF MECHANICAL

ENGINEERING,

K.S.R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

TIRUCHENGODE-637215.

Submitted for the Project report Viva-Voce Examination held on 12 4/11,

NTERNAL EXAMINER

NAMAKKAL DI, TAMIL NADU.

Page 72 of 206

Certified that this project report "SIMULATION STUDY AND PERFORMANCE ENHANCEMENT OF VARIANT WICK ROD IN MOSQUITO REPELLENT LIQUID VAPORIZER" is the bonafide work of "A.AJEETHKUMAR, L.ARJUN, J.BINOSH, L.MADHU PRASANTH" who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT

Dept.of Mechanical Engineering

K.S.R Institute for Engineering and
and Technology

Tiruchengode -637 215.

PAR TUND

SIGNATIONE

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

SUPERVISOR

Head of the Department
Dept.of Mechanical Engineering
K.S.R Institute for Engineering
Technology.

Tiruchengode -637 215.

Submitted for the project viva-voce examination held on Ul Allb

EXTERNAL

Ellepholitie

li

BONAFIDE CERTIFICATE

Certified that this project report "EXPERIMENTAL METHOD ON SPRING BACK PREICTION FOR SHEETMETAL V-BENDING" is the conafide work of "M.PRAKASAM, E.SANTHOSHKUMAR, K.SARAVANAN, M.SATHISHKUMAR" Who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Department of Mechanical Engineering,

& S R Institute for Engineering and

Technology,

Tiruchengode – 637 215.

SIGNATURE

Mr.R.SIBY, M.E.,

R. Buit

SUPERVISOR,

Assistant Professor,

Department of Mechanical Engineering,

K S R Institute for Engineering and Technology,

Tiruchengode - 637 215.

Submitted for the University Project Viva Voice Examination held on J. L. D. L. 2016

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,

K S R WSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALWI HAGARI.

TIRUCHENGODE - 637 N.

NAMAKKAL DI, TAMIL NADV.

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION ANALYSIS CFD **GENERATORS** AND OXYHYDROGEN HYDROGEN SUPPLEMENT IN CI ENGINE" is the bonafide work of (731612114033), KARTHIKUMAR.P -KARTHIS (731612114028), (731612114042),NANDHA H HUSSAIN SUHAIB MOHAMED KUMAR.M (731612114046)" who carried out the project work under my supervision.

SIGNATURE,

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

HEAD OF THE DEPARTMENT,

Professor.

DEPARTMENT OF MECHANICAL ENGINEERING,

S.R INSTITUTE FOR AND TECHNOLOGY,

TRUCHENGODE-637215.

their h

SIGNATURE,

Ms.G.ANITHA, M.E.,

SUPERVISOR,

Assistant Professor,

DEPARTMENT OF MECHANICAL

ENGINEERING,

K.S.R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

TIRUCHENGODE-637215.

Submitted for the Project report Viva-Voce Examination held on 11 4 2016

ENTERNAL EXAMINER

EXTERNAL FROM PRINCIPAL.

TIRUCHENGODE - 837 #15, NAMAKKAL DI, TAMIL NADU.

BONAFIDE CERTIFICATE

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

SIGNATURE

Dr.P.MURÜĞESAN,M.E.,Ph.D.,

HEAD OF THE DEPARTMENT,

Department of Mechanical Engineering,

K S R Institute for Engineering and Technology,

Tiruchengode – 637 215.

Rumerille

SIGNATURE

Mr.R.VASANTHAKUMAR,M.E.,(Ph.D)

SUPERVISOR,

Assistant Professor,

Department of Mechanical Engineering,

K S R Institute for Engineering and Technology,

Tiruchengode - 637 215.

Submitted for the University Comprehension Viva Voice Examination held on....15...4...15

INTERNAL EXAMINER

PRILCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVI NAGAR,

TIRUCHENGODE - 637 215,

NAMAKKAL DI, TABIL NADU.

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

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

CICNATURE

Mr. R.SURENDRAN, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the project report and viva - voce examination held on 11.4, 2016

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

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

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

HEAD OF THE DEPARTMENT

Dept.of MechanicalEngineering K.S.R Institute for Engineering and and Technology.

Tiruchengode -637 215.

A.PREMKUMAR,M.E.,

SUPERVISOR

Assistant professor Dept.of MechanicalEngineering

K.S.R Institute for Engineering and Technology.

Tiruchengode -637 215.

Smbmitted for the project report vivo-voce Examination held on ... 1.04. 2016...

8/1/12/14/18 EXTERNAL EXAMINAR

> ENGINEERING AND TECHNOLOGY, RUCHENGODE - 637 215, NAMAKKAL DI, TAMIL NADU.

ii

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN MODIFICATION AND MATERIAL OPTIMATION FOR TRUCK CHASSIS" is the bonafide work of "AJITHKUMAR.A (731612114301), BHARATH KUMAR.S (731612114306), KARTHICK.T (731612114311), MOHAMED UNESH .R (731612114316)" who carried out the project work under my supervision.

SIGNATURE,

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

HEAD OF THE DEPARTMENT,

Professor,

DEPARTMENT OF MECHANICAL ENGINEERING,

K.S.R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

TIRUCHENGODE-637215.

SIGNATURE,

Mr.M.SAMBATH KUMAR, M.E.,

SUPERVISOR,

Assistant Professor,

DEPARTMENT OF MECHANICAL

ENGINEERING,

K.S.R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

TIRUCHENGODE-637215.

Submitted for the Project report Viva-Voce Examination held on 11/01/2016

INTERNAL EXAMINER

EXTERNAL EXAMINED

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOG K S R KALIN NAGAR, TIRUCHENGODE - 837 215, NAMAKKAL DE, TANKE NADU.

Certified that this project report "ANALYSIS AND MATERIAL OPTIMIZATION OF TWO WHEELER ALLOY WHEEL" is the bonafide work of DHANABAL.M, JAYPRAKASH.M & MOHAMMED SIRAJUDEEN.K. S. A who carried out the project work under my supervision.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

SIGNATURE!

Mr. M.PRABHU, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637 215.

Submitted for the project report and viva - voce examination held on 11.4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,
K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVI NAGAR,
TIRUCHENGODE - 657 215,
NAMAKKAL DI, TAMIL NADU.

Certified that this project report "HEAT TRANSFER ANALYSIS OF VARIANT FINS FITTED IN THE CIRCULAR PIPE" is the bonafide work of PRAKASH. K, VASANTHAN.V & VIVEK. P who carried out the project work under my supervision.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

SIGNATURE

Mr. K. VIJAY, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the project report and viva - voce examination held on 11.4,16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALM NAGAR,

TIRUCHENGODE - 637 215,

NAMAKKAL DI, TANIL NADU.

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

SIGNATURE,

SIGNATURE.

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

Mr.M.AMARNATH ,M.E.,

HEAD OF THE DEPARTMENT,

SUPERVISOR,

DEPARTMENT OF MECHANICAL

DEPARTMENT OF MECHANICAL

ENGINEERING,

ENGINEERING,

K.S.R INSTITUTE FOR

K.S.R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

ENGINEERING AND TECHNOLOGY.

TIRUCHENGODE-637215

TIRUCHENGODE-637215

Submitted for the 8th semester Viva-Voce Examination held on 11-4-2016

NTETRNALLXAMINER

EXTERNAL EXAMINED

ENGINEERING AND TECHNOLOG

K S R KALVI HAGAR,

TIRUCHENGODE - 007 218,

Certified that this project report "FAILURE MODE EFFECTIVE ANALYSIS AND FABRICATION OF FIXTURE FOR MULTI STAGE CENTRIFUGAL PUMP" is the bonafide work of VASANTH. M, UDHAYAKUMAR. K, THARUN. P & RATHISH. S who carried out the project work under my supervision.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

SIGNATURE

Mr. M.JACKSON PONRAJ, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637 215.

Submitted for the project report and viva - voce examination held on 11, 14

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVI NAGAR,

TIRUCHENGODE -637 215,

NAMAKKAL DI, TAMIL NADU.

Certified that this project report "FABRICATION AND TESTING OF COMBINATION OF NATURAL FIBERS WITH GLASS FIBER" is the bonafide work of SIVAKUMAR. K, SRIDHARAN. P, RAGUPATHI. S & RAGUVARMA. A who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

SIGNATURE

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

SUPERVISOR,

Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the project report and viva - voce examination held on 11, 4, 16

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

Certified that this project report "DESIGN AND FABRICATION OF PISTON BY USING ALUMINIUM FLYASH ALUMINA COMPOSITE" is the bonafide work of PRAVEENKUMAR. K, VIGNESH. V, SABARI.P & SARAVANAN. J who carried out the project work under my supervision.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

SIGNATURE

Mr. P. MANIKANDAN, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the project report and viva - voce examination held on 11.4.16

INTERNAL EXAMPLER

EXTERNAL EXAMINER

Composite in automobile perspective" is the bonafide work of Presilla. E, Praveena.T & Navaneethan.J who carried out the project work under my supervision.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637 215.

SIGNATURE WAY

Mr. R. NIRMALRAJA, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the project report and viva - voce examination held on 11. H.

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,
K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVI NAGAR,
TIRUCHENGODE - 637 245,
NAMAKKALDI, TANIL NADU.

Certified that this project report "VARIABLE VOLUME ENGINE WITH COMBINED ADVANTAGES OF SUPERCHARGER" is the bonafide work of PRAVEENKUMAR. J, RAJPRADEEP. C. N, PREMKUMAR. J & SANTHOSHKUMAR. A who carried out the project work under my supervision.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637 215.

SIGNATURE 1

Mr. S. PONNUSAMY, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the project report and viva - voce examination held on 11. 4.

INTERNAL EXAMPLER

EXTERNAL EXAMINER

PRINCIPAL,
K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY;
K S R KALVI NAGAR,
TIRUCHENGODE - 637 215,
MAKAKKAL D, TANSL NADU.

BONAFIDE CERTIFICATE

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

SIGNATURE,

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

HEAD OF THE DEPARTMENT,

Professor

DEPARTMENT OF MECHANICAL ENGINEERING,

AND TECHNOLOGY,

TIRUCHENGODE-637215.

SIGNATURE,

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

SUPERVISOR,

Professor

DEPARTMENT OF MECHANICAL

ENGINEERING,

K.S.R INSTITUTE FOR ENGINEERING

AND TECHNOLOGY,

TIRUCHENGODE-637215.

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

INTERNAL EXAMINER

EXTERNAL EXAMINER

K S R INSTITUTE FOR ENGINEERING AND TECHNOLO K S R KALVI MAGAR TIRUCHENGODE - 637 215, NANAKKAL DI, TAKIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND MANUFACTURING OF HEAVY VEHICLE HEAD-LIGHT FRAME USING BANANA FIBRE COMPOSITEMATERIAL" is the bonafide work of "ARUN PANDIAN S, ASHOK M, ASWIN A" who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology, Tiruchengode.

SIGNATURE

Mr. P.GOPINATH, M.E., M.B.A.,

SUPERVISOR

Associate Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology, Tiruchengode.

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

NTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALW NAGAR,

TIRUCHENGODE - 637 215,

NAMAKKAL DI. TANIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "TENSILE BEHAVIOUR OF FRICTION WELDED JOINTS OF SIMILAR AND DISSIMILAR ALUMINIUM ALLOYS" is the bonafide work of "PRASATH M (731611214057), VIGNESHWARAN M (731612114100), PRABU S (731612114322) and SATHISKUMAR R (731612114331)" who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT

Professor,

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

SIGNATURE

Mr. K. VELUSAMY, M.E.,

SUPERVISOR

Associate Professor,

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

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

INTERNAL EXAMINER

EXTERNAL EXAMINER

IGINEERING AND TECHNOLOG K S R KALVI HAGAR, TIRUCHENGODE - 637 215, NAMAKKAL DI, TAINIL NADU.

Page 90 of 206

BONAFIDE CERTIFICATE

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

SIGNATURE

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

Department of Mechanical

Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode - 637 215.

SIGNATURE

Mr.M.ASHOKKUMAR, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637 215.

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

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY

K S R MALVI NAGAR

TIRUCHENGODE - 637 215,

TAWAKKAL DI, TAMIL NADU.

Certified that this project report "DESIGN AND FABRICATION OF FULLY AUTOMATIC BOARD CLEANER WITH DUST REMOVAL ARRANGEMENT" is the bonafide work of VIGNESH. B, VIGNESH. P, VENKATESHAN. M & SAKTHIVEL. R who carried out the project work under my supervision.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

K. Vetershill

SIGNATURE

Mr. K.VETRISELVAN, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637 215.

Submitted for the project report and viva - voce examination held on 11, 4, 16

INTERNAL EXAMENER

EXTERNAL EXAMINER

PRICIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVINAGAR.

TIRUCHENGODE - 637 215,

NAMAKKAL DI, TAMIL NADU.

Certified that this project report "FABRICATION OF MODIFIED GASOLINE, BIOGAS DUEL FUELED S.I ENGINE" is the bonafide work of GOWTHAM. G, PARTHASARATHI. P, PRABHU. A & NAVALADI.S who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

SIGNATURE 416

Mr. M.SAKTHIVEL, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the project report and viva - voce examination held on 11: 4.

INTERNAL EXAMINER

EXTERNAL EXAMINER

BONAFIDE CERTIFICATE

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

SIGNATURE,

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

TEAD OF THE DEPARTMENT,

Professor,

DEPARTMENT OF MECHANICAL FNGINEERING,

K.S.R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,

TIRUCHENGODE-637215.

SIGNATURE,

Mr.S.RAJKUMAR, M.E.,

SUPERVISOR,

Assistant Professor,

DEPARTMENT OF MECHANICAL ENGINEERING,

K.S.R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

TIRUCHENGODE-637215.

Submitted for the Project report Viva-Voce Examination held on 11/4/2018

INTERNAL EXAMINER

EXTERNAL EXAMINER

TIRUCHENGODE - 637 ADU.

Certified that this project report "STRESS ANALYSIS OF MIXED FLOW IMPELLER" is the bonafide work of PRANESH. M, C.K.YASVANTHKUMAR, S.YOKESHKUMAR & VISHNU. S who carried out the project work under my supervision.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637 215.

SIGNATURE

Mr. E.S.PALANIVEL, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the project report and viva - voce examination held on 11. 4.

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRIZIFAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVI NAGAR,

TIRUCHENGODE - 637 215,

NAMAICKAL DI, TAMIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "FABRICATION AND ANALYSIS OF MONO CRYSTALLINE SILICON SOLAR PANEL" is the bonafide work of KARTHIKEYAN.K, KAVIN.V, MANOJ.U, NAVANEETHA KRISHNAN.S who carried out the project work under my supervision.

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode – 637 215.

Mr. T.PRABHU, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on__

namakkal Di, Tamil Nadu.

BONAFIDE CERTIFICATE

Certified that this project report "CFX ANALYSIS OF CONVECTIVE HEAT TRANSFER COEFFICIENT OF NANO FLUIDS" is the bonafide work of GOWRISANKAR.G, GOWTHAM.P, KARTHIKEYAN.K, KARUPPUSAMY.S who carried out the project work under my supervision.

SIGNATURELLYNG

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode – 637 215.

SIGNATURE

Mr. S.MOHANAVELAN, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 12, 4, 2016

TERNAMEXAMINER

EXTERNAL EXAMINER

K S R MSTITUTE FOR ENGINEERING AND TECHNOLOGY K S R KALVI NACAR, TIRUCHENGODE - 637 215, NAMANKAL DI, TAISL NADU.

BONAFIDE CERTIFICATE

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

Dr. P.MURUGESAN, ME., Ph.D.

HEAD OF THE DEPARTMENT,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Mr. G.GOWRISANKAR, ME.(Ph.D).,

SUPERVISOR,

Assistant Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode – 637 215.

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

NAMAKKAL DI, TANIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "EFFECT OF ALKALINE EARTH METALS AND ZIRCONIUM OXIDE AS A CATALYST TO REDUCE OXIDES OF NITROGEN" is the bonafide work of R.SELVARAJ, S.ARAVINDKUMAR, A.SUBHAKER, PRADEEP.P.N who carried out the project work under my supervision.

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode – 637 215.

Mr. K.GOPAĽAKRÍSHNAN, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 12,04, 6

EXTERNAL EXAMINER

HAMAKKAL DE, TANIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "EXPERIMENTAL INVESTIGATION ON A MIXED BIO DIESEL USING DIESEL ENGINE" is the bonafide work of GOVINDASAMY.M, MARIYAPPAN.M, MUTHUSAMY.T, NAVANEETHA KRISHNAN.G who carried out the project work under my supervision.

SIGNATURE

Dr. P.MÜRUGESAN, M.E., Ph.D.,

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode – 637 215.

SIGNATURE 12.4,16

Mr. M.SATHISH KUMAR, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 12, 4, 16

NTERNAL EXAMINER

EXTERNAL EXAMINER

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

Page 100 of 206

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND PERFORMANCE ANALYSIS OF HANDY HARVESTER" is the bonafide work of ABUTHAKER.A, ARUN.S, KARTHIKEYAN.U, MURUGAN.A who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode – 637 215.

SIGNATURE

Mr. P.CHAKRAVARTHI, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on____

12.4.2016

INTERNAL EXAMINER

EXTERNAL EXAMINE

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOG K S R KALVI NAGAR, TIRUCHENGODE - 637 245, NAMAKKAL DI TAMIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "EFFECT OF COPPER AND MECHANICAL **PROPERTIES** OF LM₆ MAGNESIUM ON ANANTHARAJ.C, **ALUMINIUM**" the bonafide work of is ARULARASANV.K, BOOPATHI.A, GOWRISANKAR.A who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode – 637 215.

12/4/W

SIGNATURE

Mr. S.BALAMURUGAN, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 12.4.

INTERNAL EXAMINER

EXTERNAL EXAMINE

K 9 R WSTITLITE FOR ENGINEERING AND TECHNOLOGY, K S R KAUVI HAGAR.

> TIRUCHENGODE - 037 215, NAMAKKAL DI, TAMIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "FIXTURE DESIGNING FOR A JAW PLATE" is the bonafide work of DINESH.A, who carried out the project work under my supervision.

SIGNATURE Y

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode – 637 215.

SIGNATURE

Mr. K.JAGADEESAN, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 12,4,

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

Page 103 of 206

BONAFIDE CERTIFICATE

Certified that this project report "INVESTIGATION &PERFORMANCE EVALUATION OF CI ENGINE USING THE BLENDS OF PLASTIC OIL & DIESEL" is the bonafide work of SIVARAMAN.P, PRAVEENKUMAR.P, SHYAMSUNDAR.J, RAVIKUMAR.S who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode – 637 215.

SIGNATURE

Mr.A.V.T.SHUBASH,M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 12. 4. 16

INTERNAL/EXAMINER

EXTERNAL EXAMINER

K S R MISTITUTE FOR ENGINEERING AND TECHNOLOGY K S R KALVI HAGAR,

TIRUCHENGODE - 537 245, NAMARKAL 61, TAME NADU.

BONAFIDE CERTIFICATE

Certified that this project report "FABRICATION OF REULEAUX TRIANGLE TOOL FOR MINIMIZATION OF FILLET RADIUS IN SQUARE HOLE DRILLING OPERATION" is the bonafide work of SAKTHIVEL.S.R, SAMPATHKUMAR.S, RAJKUMAR.M, SATHISH KUMAR.S who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode - 637 215.

SIGNATURE 2

Mr. M.V.SHANMUGAM, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 12,4,2016

INTERNAL EXAMINER

EXTERNAL EXAMINER

K S R INSTITUTE FOR

K S R KALVINAGAR.
TIRUCHENGODE - 637 2 1 3.

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF PNEUMATIC MULTI PURPOSE MACHINE & MACHINE VICE" is the bonafide work of SIVASHANKAR.P, PUSHPARAJ.N, SARAVANAN.K, SATHYAMOORTHY.R who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode – 637 215.

SIGNATURE

Mr. M.AMARNATH, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 12.4.14

INTERNAL EXAMINER

PRINCIPAL.

K S R INSTITUTE FOR ENGREEPING AND TECHNOLOGY

K S R KALLSBAGAR.

MAMAKKAL DI, TAMIL NADU.

Page 106 of 206

BONAFIDE CERTIFICATE

Certified that this project report "NUMERICAL ANALYSIS OF DOUBLE PIPE HEAT EXCHANGER WITH KNURLED & POROUS CUT TWISTED TAPE" is the bonafide work of SATHISH KUMAR.R, SIVAKUMAR.M, SANTHOSHKUMAR.V who carried out the project work under my supervision.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering

and Technology,

Tiruchengode - 637 215.

SIGNATURE PILL

Mr. R.SURENDRAN, M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 12,04,16

NTERNAL EXAMINER

EXTERNAL EXAMINER

K S R ENGINEERING ALL HALLOSY K S R LALV TIDUCHENIGATE SS 15.

NAMARKAL DE, TAMIL MADU.

Page 107 of 206

ANNA UNIVERSITY: CHENNAI - 600 025

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF THREE IN ONE AIR CONDITIONER" is the bonafide record of design and fabrication project work of ABUTHAGIR A, AMEEN SHERIF S, GOPALAN R, GOPALAN R of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

SIGNATURE

Mr. M.VIJAY., M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,

K S R INSTITUTE FOR

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

ENGINEERING AND TECHNOLOGY,

TIRUCHENGODE - 637 215,

TIRUCHENGODE - 637 215,

TIRUCHENGODE - 637 215,

Page 108 of 206 NAMAKKAL DI, TAMIL NADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "FABRICATION AND TESTING OF RIDER GOURD COMPOSIT MATERIAL" is the bonafide record of design and fabrication project work of AJEETHKUMAR R, ARUN RAJ V, BOOPESH R K, DEEPAK S of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

SIGNATURE

Mr.P.GOPINATH.,M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11416

PRINCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVI HAGAR,

TIRUCHENGODE - 1877 3,

NAMAKKALDY, XMIC HADD.

EXTERNAL EXAMINER

INTERNAL EXAMINER

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF AUTOMATIC SPEED SEPARATOR USING SLIDER CRANK MECHANISM" is the bonafide record of design and fabrication project work of AJITHKUMAR A, ARAVINTH G, AZARUDEEN R, GOKULA KRISHNAN R of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

SIGNATURE

Mr.K.GOPALAKRISHNAN.,M.E., SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4.12

INTERNÁL EXAMINER

PRINCIPAL,

PRINCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

ENGINEERING AND TECHNOLOGY,

TRUCHENGODE 637 245,

TIRUCHENGODE 637 245,

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF EIGHT WHEELED ROCTED BOGIE" is the bonafide record of design and fabrication project work of AJITHRAJA S, DHARUN KUMAR G S, HAREESH S, ANANDARAJ S of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

SIGNATURE

Mr.M.SATHISHKUMAR.,M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 11 4 14

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRIZERAL,

K S R DESTRUTE FOR

ENGINEERING AND TO PROLOGY,

K S R DALVE SCAR,

TIRUCHENICODE G17 215,

NAMARKAL DI, TAMIL NADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION PROJECT OF STACK ELEVATOR" is the bonafide record of design and fabrication project work of ANANDHA PRAKASH M, ARAVIND S, CARMELRAJ S, HARISHPANDIAN P of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering,

KSR institute for engineering and

technology,

Tiruchengode – 637 215.

SICNATURE

SIGNATURE

Mr.P.MANIKANDAN M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode – 637 215.

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

INTERNAL EXAMINER

EXTERNAL EXAMINER

K S R IN-THUSE FOR ENGINEERING AND ACCUMOLOGY, K S R KALM MAGRIR, TIRUCHENCODE - 657 215, NAMAKKALDI, TAMIL NACU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "FABRICATION AND INVISTIGATION ON MECHANICAL BEHAVIOUR OF BANANA AND SISAL FIBER REINFORCED WITH EPROXY COMPOSITE" is the bonafide record of design and fabrication project work of ANANTHAKUMAR J, CHEARMA RAJA MAHEANDIRAN T M, SARAVANAN R of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

SIGNATURE

Mr.M.V SHANMUGAM.,E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 114

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINT CAL.

K S R IN TENTE FOR

ENGINEERING AND COMOLOGY.

K S R RALM COAR.

TIRUCHENGODE 637 215,

NAMAXKAL DE TARRE NADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF BANANA LEAF CUTTING MACHINE" is the bonafide record of design and fabrication project work of ANANTH RAJ S, DINESH H, GOKUL KUMAR S, JAFIL KISHORE R of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

SIGNATURE

Mr.S.POORANAKUMAR.,E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on__

11/4/16

INTERNAL EXAMINER

EXTERNAL EXAMINER

K S R IN TOUTE FOR ENGINEERING A G PECHNOLOGY, K S R NA AGAR, TIRUCHEN CO. 457 215, NAMAKKAL DI, JAJIL NAOU.

Page 114 of 206

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF BIOGAS DIGESTER" is the bonafide record of design and fabrication project work of ARIVAZHAKAN R, BALAMURGAN B, BALAMURGAN E, DAARWIN S of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering, KSR institute for engineering and technology,

Tiruchengode - 637 215.

Seltte

Mr.M.SAKTHIVEL.,M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,

K S R INSTITUTE FOR

ENGINEERING A SO TECHNOLOGY

K S R KALVI HAGAR,

TIRUCHEHOODE - 637 215,

NAMANGAL DI, TARRE NADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF DOUBLE SIDE PUNCHING MACHINE USING SCOTCH YOKE MECHANISM" is the bonafide record of design and fabrication project work of ARJUN C V, DENISHRAGAV A, DHILIPKUMAR R, GOKUL A of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering, KSR institute for engineering and technology,

Tiruchengode - 637 215.

SIGNATURE

Mr.P.KANNAN.,M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4,16

INTERNAL EXAMINER

PRINCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R VALUE GAR,

TIRUCHENDOOL 537 215,

NAMANNAL DE TAGEE HADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF ROPE AND TROLLEY" is the bonafide record of design and fabrication project work of ARUNKUMAR M ,AYYAPPAN G , DHANUSH KUMAR K, GOKULNATH M of MECHANICAL ENGINEERING during the year 2015-2016.

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

Professor,

Department of mechanical engineering, KSR institute for engineering and technology,

Tiruchengode - 637 215.

18 rand. 4.16 SIGNATURE

Mr.P.CHAKRAVARTHI.,M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11. 4. 14.

INTERNAL EXAMINER

LOLOGY.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF COMPRESSED AIR OPERATED VEHICLE" is the bonafide record of design and fabrication project work of ARUN KUMAR M, DEEPAK KUMAR M, GOWTHAM S, GUNASEELAN K of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering, KSR institute for engineering and

technology,

Tiruchengode - 637 215.

SIGNATURE

Mr.K, VELUSAMY., E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11, 4, 16

INTERNAL EXAMINER

PRINCIPAL,

K S R POTUTE FOR

ENGINEER SCHNOLOGY,

K S S AR,

TIRLICHE 7215,

NAMA SADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF SOLAR CAR" is the bonafide record of design and fabrication project work of BASKAR S, GOKUL D, GOPINATH V, KAVIN M of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering,
KSR institute for engineering and

technology,

Tiruchengode – 637 215.

SIGNATURE

Mr.M.AMARNATH.,M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 1.416

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL.

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S A KALVI NAGAR,

TIRLICHENGODE-637 215,

NAMARKAL DE TAME NADU

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF AUTOMATIC MECHANICAL CUTTER BY USING CRANK AND SOLOTTED LIVER MECHANISM" is the bonafide record of design and fabrication project work of CHANDRAKUMAR T, CHANDRU R, DHARANIKUMAR M, GOBINATH P of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering, KSR institute for engineering and technology,

Tiruchengode - 637 215.

SIGNATURE . F. To

Mr.M.JACKSON PONRAJ,M.E., SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11. 4.16

INTERNAL EXAMINER

PRIZERNAL EXAMINER

PRIZERAL

K S R RESTRICTE FOR

ENGINEERS TECHNOLOGY,

K S R L GAR,

TRUCKERS OF COT 215,

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF REVERSE GEAR MECHANISM IN TWO WHEELER " is the bonafide record of design and fabrication project work of DINESH BABU M, DINESHKUMAR T, ENIYAVELAN K, GOBALAKRISHNAN A of MECHANICAL ENGINEERING during the year 2015-2016.

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

Professor,

Department of mechanical engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Mr.K.MOHANAVELAL,M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 110 4016

INTERNAL EXAMINER

ENGINEERING AND TECHNOLOGY, K S R KALVINAGAR,

TIRUCHENGOUR - 637 215, NAMACKAL DI, TAME HADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF SOLAR E CYCLE" is the bonafide record of design and fabrication project work of GOKUL V, HARIHARAN S, ABUBAKKAR SIDDICQ L, ARUN KUMAR A N of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE PERIL

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

Professor,

Department of mechanical engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

S. M. Residential

Mr.A.M.RAMKUMAR,M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11. 4. 1

INTERNAL EXAMINER

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF SOLAR SEED DRIER" is the bonafide record of design and fabrication project work of ANAND R, GOKULRAJ V, GOPINATH T, GOWTHAM M of MECHANICAL ENGINEERING during the year 2015-2016.

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

Professor,

Department of mechanical engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

SIGNATURE 14.16

Mr.A.R.SURENDRAN, M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4.76

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF PNUEMATIC CONVEYOR" is the bonafide record of design and fabrication project work of JAGADEESHAN M, JANARTHANAN K, JAYAKUMAR J, JAYANTHAN J of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering, KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

A. Row Tifille

SIGNATURE

Mr. A. PREMKUMAR., M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on_

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,

K S R MISTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R MALVI MIGAR,

TIRUCHENGODE - 637 215,

NAMAUKEL IN TAIGH NACH.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DIGITAL FUEL VALVE CONTROL DEPENDS UPON ON/OFF KEY" is the bonafide record of design and fabrication project work of KAMAL RAJ S, GOWTHAM R, KARTHICK G, KAVIN R of MECHANICAL ENGINEERING during the year 2015-2016.

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE SIGNATURE

Mr. S. POORNAKUMAR.,M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11. 4.16

K S R KALWI PAGAR, TIRUCHENGODE - 637 215, NAMAKKAL DI, TAMIL NADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF SOLAR WATER HEATER WITH TWISTED TAPE INSERTS" is the bonafide record of design and fabrication project work of MADHAN D, KANNAN K, MANICKAM V, MUGUNTH R of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE

Mr. K. UMA., M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,
K S R ENSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVI HAGAR,
TIRUCHENGODE - 637 215,
NAMAKKALD, TAME NADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF HEAD LIGHT FOCUSING DOOM" is the bonafide record of design and fabrication project work of KARTHIKEYAN I, KARTHIKEYAN S, KARTHIKEYAN S, MOHANRAJ T of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE

Mr. P. GOPINATH., M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11. 4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVI HAGAR.

TIRUCHENGOGE - 637 215,

NAMARKAL DI, TAMIL HAUD.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF PORTABLE GAS WELDING" is the bonafide record of design and fabrication project work of KESAVAN K, PRATHEEP E PRAVEENKUMAR P, RAGUPATHY M of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode – 637 215.

SIGNATURE

Mr. K. UMA., M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY, K S R KALVI NAQAR, TIRUCHENGODE - 837 215, NAMAKKAL DI, TAMIL NADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF AUTOMATIC SIDESTAND LIFTING MECHANISM" is the bonafide record of design and fabrication project work of NAVEENKUMAR A, NAVEEN KUMAR R, KARTHICK M, PARTHIBAN P of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE 4.16

Mr. M. VIJAY., M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

K S R NATITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALDI NAGAR,

TIRUCHENGODE - 637 215,

NAMAKNAL DE TAME 1902.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF OBJECT LIFTING CAM MECHANISM" is the bonafide record of design and fabrication project work of NARESH BABU C, MAHARAJOTHIRAJA T, PRABHU T, NISHANTH K B of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE 19,12

Mr. M. PRABHU., M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11. 4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,

K S R RESTRUTE FOR

ENGINEERING AND TECHNOLOG

K S R KALSAWAGAR.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "FABRICATION OF ZIRCONIUM OXIDE CATALYTIC CONVERTER TO CONTROL EMISSION ON DI DIESEL" is the bonafide record of design and fabrication project work of MOHANRAJ G, NANDA GANESH P, NANDHAGOPAL M, KASIRAJA S of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE

Mr. A. GAJENDRAN., M.E.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11. 4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF PORTABLE GAS WELDING" is the bonafide record of design and fabrication project work of LOKKESH RAJA P B, KRISHNAKUMAR S, MANIKANDAN B, PRASANTH M of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode – 637 215.

SIGNATURE 11.4.16

Dr.M.RAJARAM NARAYANAN

M.E.,Ph.D.,

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode – 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PROCESS

K S R ASSTRUTE FOR ENGINEERING AND TECHNOLOGY
K S R KALVENGORR,
TIRUCHENGODE 1937 243

BONAFIDE CERTIFICATE

"DESIGN AND This is to certify that the project entitled, FABRICATION OF STEERING CONTROLLED HEADLINES" is the bonafide record of design and fabrication project work of MUTHU KUMAR N, NANTHA KUMAR T, NAVANEETHAN M, KARTHICKRAJA R of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE THE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

E. S. Pacamirol.

SIGNATURE

Mr.E.S. PALANIVEL.,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

INTERNAL EXAMINER

EXTERNAL EXAMINER TIRUCHENGODE - 637 213, NAMAKKAL DI, TAMIL NADU.

Page 133 of 206

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "FABRICATION OF TUBE IN TUBE HEAT EXCHANGER" is the bonafide record of design and fabrication project work of RAGHUL P, MOHAMED YASAR M, KALAIYARASAN S A, KARTHICK P of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE 11.4.16

Mr.T. PRABHU M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

INTERNAL EXAMINER

EXTERNAL EXAMINER

PROCIPAL,

K S R METTUTE FOR THE PROCESS OF THE

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF SOLAR PANEL FRAMES ON AUTOMOBILE" is the bonafide record of design and fabrication project work of KUMARESH T R, MOHAN BABU S, KARTHICK S, PRANEESH C of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

JESTATURE 14.16

SIGNATURE

Mr.K. JAGADESAN., M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4.16

INTERNAL EXAMINER

EXTERNAL EXAMPLER

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY, K S R KALVIT HOAR, TIRUCHENGOOD - 537 215, NAMAKKAL DE TABLE NAME.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "FABRICATION AND TESTING OF COMBINATION OF BANANA FIBER WITH GLASS FIBER" is the bonafide record of design and fabrication project work of MICHAEL RAJ G, MUTHAMIZHMUDHALVAN P, KAVIYARASAN V, NITHIN T of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor.

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE

Mr.A. MOHANRAJ ., M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

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

11:4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER
PRINCIPAL
K S R INSTITUTE FO
ENGINEERING AND TECHN

TIRUCHENE CODE - 137 213, NAMAKHAL DI, TAMIL MALIUL

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF COCONUT CLIMBING MACHINE" is the bonafide record of Design and fabrication project work of KASIVISHWANATHAN A, RAGUPATHY K, MANORANJAN R S, MURALIDHARAN R of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE 1 1916

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

M. Jackson -

SIGNATURE

Mr.M.JACKSONPONRAJ.,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL.

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVI NAGAR.

TIRUCHENGODE - 657 215,

NAMAKKAL DI, TARIL NADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF PNUEMATIC BROACHING MACHINE" is the bonafide record of design and fabrication project work of MARI A, GURUPRAKASH T, MANOJ R, MEGANATHAN G of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE

SIGNATURE

Mr.A V T. SHUBHASH.,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRICIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLO

K S R WATER SAGAR

NAMAKKALDI, TAME HADU.

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

ANNA UNIVERSITY: CHENNAI-600 025

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF FRONT FORK HELICAL SPRING MONO SUSPENSION" is the bonafide record of Design and fabrication project work of PRADEEPKUMAR K, PRAGATHEESKUMAR R, PRASAD K, PRABHAKARAN A of MECHANICAL ENGINEERING during the year 2015-2016.

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

Professor,
Department of Mechanical Engineering,
KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE Mr.P. KULANDIVELU.,M.E. SUPERVISOR,

Assistant Professor,
Department of Mechanical
Engineering,
KSR Institute For Engineering And
Technology,
Tiruchengode – 637 215.

Submitted to the project report and viva - voice examination held 11, 4,16

on

PRINCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVIRAGAR,

TIRUCHENGODE - 637 215,

NAMAKKAL DI, TAMAL NADU.

EXTERNAL EXAMINER

INTERNAL EXAMINER

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGH AND FABRICATION OF AUTOMATIC CAR THEFT DETECTING SYSTEM" is the bonafide record of design and fabrication project work of NAVEENPRASATH M, PADMANABHAN S, NAVEENKUMAR M of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE 4.16

Mr.R. SIBY.,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11, 4, 6

INTERNAL EXAMINER

EXTERNAL EXAMINER

FRINCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVARAGAR,

TIRUCHENCODE - 637 215,

NAMADIAL DI, TAMIL NADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "FABRICATION OF HEIGHT SORTING MACHINE" is the bonafide record of design and fabrication project work of RENKUMAR R,VIMALNATHD M,VIJAYAKUMAR K, SURESH KUMAR.V of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE 11.4.16

Mr. M.ASHOK KUMA., M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

INTERNAL EXAMINER

EXTERNAL EXAMINER

PUNCIPAL

K & R INSTITUTS FOR

ENGINEERING AND TECHNOLOGY,

K & R KALVIALGAR,

TIRUCHENGODE - 637 215,

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF TRANSMISSION SYSTEM FOR GOKART" is the bonafide record of design and fabrication project work of REVANTHKUMAR.K, SASIKUMAR .R, RAVI.A, VIGNESH.G of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE

Mr. R.NIRMALRAJA., M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11. 4. 16

INTERNAL EXAMINER

EXTERNAL EXAMINER

FRI PALL FOR

K S. R RESTRICTE FOR

ENGINEERING A CHNOLOGY.

K S. R RESTRICTE FOR

GAR,

TIRUCHENGEDE 827 215,

NAMAXBAL DE TAMIL NADU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION REGENERATIVE BRAKING SYSTEM" is the bonafide record of design and fabrication project work of VIGNESH B,SASI KUMAR J, SIVA S, SABARISH of MECHANICAL ENGINEERING during the year 2015-2016.

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Mr. S.PONNUSAMY., M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

INTERNAL EXAMINER

EXTERNAL EXAMI

ENGINEERING AND TECHNOLOGY, TRUCHERIOLDE - 537 215. NAMAKKAL DI TAMIL NAJU.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF OVER LOAD INDICATOR" is the bonafide record of of project work and fabrication SANTHOSHKUMAR.V, SENTHIL KUMAR.M, THIYANESHWARAN of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE WY'16

Mr. G.GOWRISHANKAR.,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

ENGINEERING AND TECHNOLOGY,

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF BOX TRANSPORT SYSTEM USING PARALLEL CRANK MECHANISM" is the bonafide record of design and fabrication project work of RAJESH.R, SATHISHKUMAR.P, SATHISHKUMAR.M, VIMAL.S of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE

Mr S.BALAMURGAN., M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

INTERNAL EXAMINER

PANCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVI NAGAR,

TIRUCHENGODE - 637 215,

NAMAKKAL DI, TAMIL NAOU.

BONAFIDE CERTIFICATE

is to certify that the project entitled, "DESIGN AND FABRICATION OF HEAT TRANSFER ON VARIENT FINS FITTED IN THE CIRCULAR PIPE" is the bonafide record of design and fabrication project work of SAKTHI MAHESHWARI.R, SUDHAKAR.S, SURIYA.S, VENKATESH.Gof MECHANICAL ENGINEERING during the year 2015-2016.

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Mr .K.VIJAY.,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11, 4, 16

EXTERNAL E

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "FABRICATION OF METAL AND NON-METAL SORTING MECHANISM" is the bonafide record of design and fabrication project work of SOUNDAR RAJAN.S, SOWNDARRAJAN.V, SRIDHAR.B, VETRISELVAN.J of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE 19/16

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE

Mr. A.MOHANRAJ., M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode – 637 215.

INTERNAL EXAMINER

EXTERNAL EXAMINER

K S R RESTYUTE FOR ENGINEERING AND TECHNOLOGY K S R KALVI NAGAR, TIRUCHENGODE - 637 245, NAMAKKALDI, TAMIL NADU.

BONAFIDE CERTIFICATE

"DESIGN AND This is to certify that the project entitled, FABRICATION OF FLUIDIZED BED COOLING TOWER" is the bonafide record of design and fabrication project work of SRIDHAR.R, SRITHAR.R, SUDARVANNAN.R, SUGAVANAM.D of MECHANICAL ENGINEERING during the year 2015-2016.

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

RMiland

SIGNATURE

Mr. R.VASANTHKUMAR.,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

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

11.4016

EXTERNAL E

TIRUCHENGODE - 637 J. NAMAKKAL DI, TAMIL N. ...

BONAFIDE CERTIFICATE

"DESIGN AND This is to certify that the project entitled, FABRICATION OF FLUIDIZED BED COOLING TOWER" is the bonafide record of design and fabrication project work of SRIDHAR.R, SRITHAR.R, SUDARVANNAN.R, SUGAVANAM.D of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

RMMITHIB

SIGNATURE

Mr. R.VASANTHKUMAR.,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

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

EXTERNAL EXAL CHENGODE - 637 NAMAKKAL DI, YAMIL how.

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "FABRICATION AND TESTING ON ORGANIC REINFORCED POLYMER COMPOSITES" is the bonafide record of design and fabrication project work of SANTHOSHKUMAR.A, SATHISH KUMAR.D, SARATHKUMAR.T, SURYAPRAKASH.M of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

T. Shul

SIGNATURE

Mr . A.V.T.SHUBHASH.,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

INTERNAL EXAMINER

EXTERNAL EXAMINER

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOG

K S R KALM NAGAR,

TURLICHENGO DE BOT 245

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "Design AND FABRICATION OF GO-KART STEERING SYSTEM" is the bonafide record of design and fabrication project work of SURYAPRAKASH.T,SHANMUGASUNDARAM.D, VINOTHKUMAR.C, VIJAY.N of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE 11.4.14

Mr. R.SIBY., M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11.4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRIVEIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVINAGAR,

TIRUCHENGODE - 627 215,

NAMARKAL DI, TAMIL NADU.

Page 151 of 206

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF BRAKING SYSTEM FOR GOKART" is the bonafide record of design and fabrication project work of TAMIL SELVAN.G, ROJITHRAJA.N, SELVAKUMAR.N of MECHANICAL ENGINEERING during the year 2015-2016.

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE

Mr . E.S.PALANIVE.,M.E.

E. S. Palarivel

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF BOX SHIFTING MECHANISM" is the bonafide record of design and fabrication project work of RAJAJAYASEELAN.R, SRIDHAR.A, RAJKUMAR.R, RAJSHANKAR.M of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE USIGNATURE

Mr. M.PRABHU., M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

INTERNAL EXAMINER

EXTERNAL EXAMINER

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY K S R KALVI NAGAR, TIRUCHENGODE + 837 215, NAMAKKAL DI, TAMIE NADU.

Page 153 of 206

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "FABRICATION OF COMPOSITE PLATE USING BANANA FIBER BY HAND LAY METHOD" is the bonafide record of design and fabrication project work of PRASANTH.A, VISHNU PUGAZHENTHI.T, VELMURGAN.C, VETRICHELVAN.S of MECHANICAL ENGINEERING during the year 2015-2016.

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURA 4:16

Mr. M.JACKSONPONRAJ.,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11, 4, 16

EXTERNAL TIRUCHENGODE - 637 245, NAMAKKAL OT, TAMIL NADU

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF ELECTRICITY GENERATION FROM SPEED BREAKERS BY USING CRANK SHAFT MECHANISM" is the bonafide project work of VIGNESH.B, record of design and fabrication UDHAYAKUMAR.S, VEERAKUMAR.M, VELAN.P of MECHANICAL ENGINEERING during the year 2015-2016.

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode – 637 215.

Mr .K.VELUSAMY .,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

NAMAKKAL DE, TAME NAOU

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF EXHAUST MUFFLER IN AUTOMOBILE" is the bonafide record of design and fabrication project work of RAVI.S, PRAVEENKUMAR.L.S, THIRUMURUGAN.V, VEDIYAPPAN.P of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

SIGNATURE

Mr . R.NIRMALRAJA.,M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

Submitted for the Project report Viva-Voce Examination held on 11. 4.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVI HAGAR,

TIRUCHENGODE, 855

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF PORTABLE PNEUMATIC GRINDING MACHINE" is the bonafide record of design and fabrication project work of SURYA.G, THANASEYAN.V.S, SIVAKUMAR.G, SATHISHKUMAR.S of MECHANICAL ENGINEERING during the year 2015-2016.

SIGNATURE

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

Professor,

Department of Mechanical Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

120 1114 /2016

SIGNATURE

Mr. P.MANIKANDAN., M.E.

SUPERVISOR,

Assistant Professor,

Department of Mechanical

Engineering,

KSR Institute For Engineering And

Technology,

Tiruchengode - 637 215.

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

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,
K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVI NADAR,
TIRUCHENGODE - 837 215,
NAMAKKAL DI, TAMIL NADU

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

ANNA UNIVERSITY: CHENNAI - 600 025

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "DESIGN AND FABRICATION OF CHASSIS FOR GO-KART VEHICLE" is the bonafide record of Design and fabrication project work of SENTHILKUMAR.N, VASANTH.R of MECHANICAL ENGINEERING during the year 2015-2016.

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

Professor,
Department of Mechanical Engineering,
KSR Institute For Engineering And
Technology,
Tiruchengode – 637 215.

SIGNATURE
Mr M.V.SHANMUGAM.,M.E.
SUPERVISOR,

Assistant Professor,
Department of Mechanical
Engineering,
KSR Institute For Engineering And
Technology,
Tiruchengode – 637 215.

Submitted to the project report and viva – voice examination held 11, 4, 15 on

INTERNAL EXAMINER

EXTERNAL EXAMINERAL,

R S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

R S R KALVI NAGAR.

TIRUCHENGCOE - 63°

NAMAKKAL DI, TAMIL IV.

ANNA UNIVERSITY: CHENNAI 600 025 BONAFIDE CERTIFICATE

This is to certify that the Project entitled

E-MAGAZINE

is the bonafide record of the project work done by

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

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

Supervisor

Head of the department

Submitted for the Project Viva-Voce examination held on 11-4.16

PRÍNCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY.

K. S. R. KALVI NAGAR.

TIRUCHENGODE-637 215.

NAMAKKALDI, TAMIL NADU.

Internal Examiner

External Examiner

BONAFIDE CERTIFICATE

This is to certify that the Project entitled

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

is the bonafide record of the project work done by

MONISHA.S (731612205028)

SANGAVI.R (731612205045)

SATHYA SHREE.K (731612205051)

VENNILA.A (731612205058)

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

K. Y. gowon to

Supervisor

Head of the department

Submitted for the Project Viva-Voce examination held on 11.04.2016

Internal Examiner

PRINCIPAL.

External Examiner

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

Page 160 of 206

BONAFIDE CERTIFICATE

This is to certify that the Project entitled

INTEGRATED ONLINE BANKING SYSTEM

is the bonafide record of the project work done by

ARUN PRASANTH.A (731612205002)

KARTHIKEYAN.S (731612205019)

KAUSHIKPRABHU.M (731612205020)

PRAKASH.V (731612205035)

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

Supervisor

Head of the department

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

Internal Examiner

External Examiner

PRINCIPAL.

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

Page 161 of 206

BONAFIDE CERTIFICATE

This is to certify that the Project entitled

SELF APPRAISAL SYSTEM

is the bonafide record of the project work done by

BHARATHI.P

(731612205006)

KARTHIGA.S

(731612205017)

NASREEN JOHN.M (731612205030)

PRAVEENA.P

(731612205037)

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

Head of the department

1-NV

Supervisor

Submitted for the Project Viva-Voce examination held on 11. 4.16

Internal Examiner

External Examiner

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR.

TIRUCHENGODE-637 215,

NAMAKKAL DL TAMIL NADU.

ANNA UNIVERSITY::CHENNAI 600025

BONAFIDE CERTIFICATE

This is to certify that the Project entitled

RESULT SYSTEM THROUGH INTRANET AND INTERNET

is the bonafide record of the project work done by

BALAJI.S

(731612205004)

MEIARASHU.N

(731612205025)

RAKESH KUMARAN.G (731612205039)

YOGESHWARAN.R

(731612205059)

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

Head of the Department

Submitted for the Project Viva-Voce examination held on 11/24/2016

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

External Examiner

Page 163 of 206

BONAFIDE CERTIFICATE

This is to certify that the Project entitled

ONLINE PLACEMENT MANAGEMENT SYSTEM

is the bonafide record of the project work done by

JANANI J (731612205014)

LEELAVATHI S (731612205023)

MOHAMED BASITH R (731612205026)

SARANYA S (731612205049)

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

visor URGADE !

Head of the department

ubmitted for the Project Viva-Voce examination held on way a re-

In al Examiner

External Examiner

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR.

TIRUCHENGODE-637 215,

NAMAKKAL DI. TAMIL NADU.

Page 164 of 206

BONAFIDE CERTIFICATE

This is to certify that the Project entitled

DATA LEAKAGE DETECTION

is the bonafide record of the project work done by

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

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

Head of the department

Supervisor

External Examiner

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

Internal Examiner

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

TIRUCHENGODE-637 215,

NAMAKKAL DI. TAMIL NADU.

Page 165 of 206

BONAFIDE CERTIFICATE

This is to certify that the Project entitled

eZy Share

is the bonafide record of the project work done by

INDHU MATHI.R (731612205012)

IYYAN DURAI.R (731612205013)

MEENA.A (731612205024)

SINDHUJAA.S (731612205053)

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

Supervisor

Head of the department

External Examiner

Submitted for the Project Viva-Voce examination held on 11 20 2016

Internal Examiner

PRINCIPAL.

K S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

TIRUCHENGODE-637 215,

Pagek166 of 206L NADU.

ANNAUNIVERSITY:: CHENNAI 600025

BONAFIDE CERTIFICATE

This is to certify that the Project entitled

K S R IET-IT INFORMATION SYSTEM

is the bonafide record of the project work done by

SANDHIYA.R (731612205044)

SANGEETHA.S (731612205046)

SARANYA.R (731612205048)

SRIVIDHYA.N (731612205055)

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

lead of the department

Supervisor

mitted for the Project Viva-Voce examination held on 1) CA 2016

rnal Examiner

External Examiner

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

BONAFIDE CERTIFICATE

This is to certify that the Project entitled

INTRUSION DETECTION AND SECURE PACKET TRANSMISSION SYSTEM FOR MANETS

is the bonafide record of the project work done by

KEERTHANA.R (731612205021)

KIRUTHIGA.R (731612205022)

RAMAKRISHNAN.G (731612205040)

VAISHNAVI.G (731612205057)

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

Supervisor

Head of the department

Submitted for the Project Viva-Voce examination held on 11 04 20 16

Internal Examiner

External Examiner

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR.

TIRUCHENGODE-637 215,

NAMAKKAL DI. TAMIL NADU.

Page 168 of 206

ANNA UNIVERSITY: CHENNAI 600 025 BONAFIDE CERTIFICATE

This is to certify that the Project entitled

KSRIET PROFILE - MOBILE APP

is the bonafide record of the project work done by

BANUPRIYA N (731612205005)

NITHYA DEVI S (731612205031)

OYILA K (731612205032)

RUBA M (731612205042)

of

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

Supervisor

Head of the department

Submitted for the Project Viva-Voce examination held on 1). 04.16

nternal Examiner

External Examiner

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

K. S. R. KALVI NAGAR,

TIRUCHENGODE-637 215,

NAMAKKAL DI. TAMIL NADU,

Page 169 of 206

ANNA UNIVERSITY: CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the Project entitled

Intranet Mailing System

Is the bonafide record of the project work done by

ANUSHUYA T (731612205001)

DEEPALAKSHMI M M (731612205008)

SHIVA GURU BALAJI S (731612205052)

SAPTHAGIRI V (731612205047)

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

Supervisor

Head of the department

projecti

Submitted for the Project Viva-Voce examination held on 11.04.2016

Internal Examiner

External Examiner

PRINCIPAL,
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR.
TIRUCHENGODE - 637 115,
NAMAKICAL DI, TAMIL NAGU.

BONAFIDE CERTIFICATE

This is to certify that the Project entitled

ONLINE STUDENT FEEDBACK SYSTEM

is the bonafide record of the project work done by

B.Narendaran (731612205029)

A.Raja Sekar (731612205038)

S.K.Sathish kumar (731612205050)

M.Sridhar (731612205054)

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

Head of the department

Submitted for the Project Viva-Voce examination held on 11. 04.2016

Internal Examiner

External Examiner

K. S. R. INSTITUTE FOR ENGINEERING AND TECHNOLOGY, K. S. R. KALVI NAGAR, TIRUCHENGODE - 537 115. NAMAKICAL DI, TAMIL MAN J.

Page 171 of 206

ANNA UNIVERSITY :: CHENNAI 600025 BONAFIDE CERTIFICATE

Certified that this project report

STUDY MATERIAL SHARING THROUGH INTRANET

is the bonafide work of

HEERADEVI S	(731612205011)
MONICA N	(731612205027)
SAMPOORANI S	(731612205043)
DHARANI PREETHI R	(731612205701)

who carried out the project work under my supervision.

Supervisor

Head of the department

Submitted for the Project Viva-Voce examination held on 11.04.2016

Internal Examiner

External Examiner

PRINCIPAL,
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR.
TIRUCHENGODE - 637 5,
NAMAKKAL Dt, TAMIL NAJU,
Page 172 of 206

KS R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "CLOUD BASED MULTIMEDIA CONTENT PROTECTION SYSTEM USING MATCHING OBJECT" is the bonafide record of Project Work Phase-I) of GAYATHRIS (Reg. No.:731614405001) of M.E. (Computer Science and Engineering)during the year 2015-2016.

Shund Huming 13/18

Mr. M. JAGANATHAN, M.E.,

SUPERVISOR,

Assistant Professor/CSE

afortaline extistis

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head /CSE

Submitted for the project work (Phase-I) Viva-Voce examination held on 15.12.2015

Internal Examiner

PRINCIPAL.

K. S. R. INSTITUTE FOR

K. S. R. KALVI NACAR

TIRUCHENGOR

External Examiner

Page 173 of 206

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY , TIRUCHENGODE-637215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "FAST RANGE AGGREGATE QUERIES IN BIGDATA ENVIRONMENTS" is the bonafide record of Project Work (Phase-I) HAMSAREKA S (Reg.No.:731614405002) of M.E. Computer Science and Engineering) during the year 2015-2016.

Dr. B. KALAAVATHI,

SUPERVISOR

Professor & Head/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-I) Viva-Voce examination held on 15-12-2015

Internal Examiner

External Examiner

PRINCIPAL.
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S. R. KAI VI NAGAR.
TIRUCHENGODE-657 215,
NAMAKKAL DI, TAMIL NADU.

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637 215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "PRIVACY-PRESERVING PUBLIC AUDITING FOR SHARED DATA IN THE CLOUD" is the bonafide record of Project Work (Phase-I) of KOKILA P (Reg. No.: 731614405003) of M.E. (Computer Science and Engineering) during the year 2015-2016.

P. 8 5/12/15

Mrs. P. SUMATHI,

SUPERVISOR,

Assistant Professor/CSE

Anburetters

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-I) Viva-Voce examination held on-15:12.2015

Internal Examiner

External Examiner

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

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637215

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "ENHANCING PRIVACY IN GEOSOCIAL APPLICATIONS USING LocX" is the bonafide record of Project Work (Phase-I) of KRUTHIKA P (Reg.No.:731614405004) of M.E. (Computer Science and Engineering) during the year 2015-2016.

T. 8 941

Mr. T. SOUNDER RAJAN, M.E., SUPERVISOR,

Assistant Professor/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-I) Viva-Voce examination held on 15.12.2015

Internal Examiner

External Examiner

K. S. R. INSTITUTE FOR ENGINEERING AND TECHNOLOGY, K. S. R. KALVI NAGAR, TIRUCHENGOOF 617 215, hamannal Discoulle 1979.

Page 176 of 206

TIRUCHENGODE-637215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "AN EFFICIENT ENCRYPTED LATA SEARCH AS MOBILE CLOUD SERVICE" is the bonafide record of Louiside Work (Phase-I) of NIVETHA R (Reg.No.:731614405005) of M.E. Camputer Science and Engineering) during the year 2015-2016.

Dr. G. MALATHY,

SUPERVISOR,

Associate Professor/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-I) Viva-Voce examination held on 15.12.2015

Internal Examiner

External Examiner

K. S. R. INSTITUTE FOR

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "PHASE AND RESOURCE INFORMATION-AWARE **SCHEDULER** FOR MAPREDUCE CLUSTERS" is the bonafide record of Project Work (Phase-I) PAVITHRA S (Reg.No.:731614405006) of M.E. (Computer Science and Engineering) during the year 2015-2016.

Dr. G. MALATHY,

SUPERVISOR,

Associate Professor/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

External Examiner

Professor & Head/CSE

Submitted for the project work (Phase-I) Viva-Voce examination held on 15-12-2015

ternal Examiner

PRINCIPAL.

K. S. R INSTITUTE FOR ENGINEERING AND TECHNOLOGY, K. S. R. KALVINAGAR. TIRUCHENGODE-637 215.

NAMAKKAL DI, TAMIL NADU.

BONAFIDE CERTIFICATE

Certified that this project report "DYNAMIC PROOFS OF RETRIVABILITY SCHEME CLOUD COMPUTING" is the bonafide record of Project Work (Phase-I) RAVIKUMAR K (Reg No: 731614405007) of M.E. (Computer Science Engineering) during the year 2015-2016.

Mr.M.JAGANATHAN, M.E.,

SUPERVISOR,

Assistant Professor/CSE

Dr. B.KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the Project work (Phase-I) Viva - Voce Examination held on 15/12/2

Internal Examiner

External Examiner

TIRUCHENGODE-637215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "TOP KEY MULTI-EYWORD RANKED SEARCH SCHEME OVER ENCRYPTED CLOUD DATA" is the bonafide record of Project Work (Phase-I) of RENUGADEVI N Reg.No.:731614405008) of M.E. (Computer Science and Engineering) during the Ear 2015-2016.

Dr. B. KALAAVATHI,

SUPERVISOR

Professor & Head/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-I) Viva-Voce examination held on 15.12.2015

Internal Examiner

External Examiner

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

INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637215 ANNA UNIVERSITY, CHENNAI 600 025

BONAFIDE CERTIFICATE

This is to certify that the project titled, "PREDICTING PRODUCT FEATURES IN LARGE SCALE SOCIAL NETWORKS USING NODE CLASSIFICATION" is the bonafide record of Project Work (Phase-I) of SATHIYAKALA S (Reg.No.:731614405009) of M.E. (Computer Science and Engineering) during the year 2015-2016.

Pkrishnasankar

Mr. P. KRISHNA SANKAR

SUPERVISOR

ASSISTANT PROFESSOR

Department of Computer Science

and Engineering

Dr. B. KALAAVATHI

HEAD OF THE DEPARTMENT

PROFESSOR and HEAD

Department of Computer Science

and Engineering

Submitted for the project work (Phase-I) Viva-Voce examination held on 75.12.2015

Internal Examiner

External Examiner

K. S. R. INSTITUTE FOR ENGINEERING AND TECHNOLOGY, K. S. R. KALVI NAGAR, TIRUCHENGODE-637 215, NAMAKKAL DI, TAMIL NADU. Page 181 of 206

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "PRIVACY PRESERVING FRIENDING IN SOCIAL NETWORKS" is the bonafide record of Project Work (Phase-I) of VASUKI M (Reg.No.:731614405010) of M.E. (Computer Science and Engineering) during the year 2015-2016.

P. 8 5/12/15

Mrs. P. SUMATHI,

SUPERVISOR,

Assistant Professor/CSE

Aprilande Stal'15

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-I) Viva-Voce examination held on 15-12-2015

Internal Examiner

External Examiner

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

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637215

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "CONTENT PROTECTION SYSTEM USING MATCHING OBJECT FOR CLOUD BASED MULTIMEDIA" is the bonafide record of Project Work (Phase-II) of GAYATHRI S (Reg.No:731614405001) of M.E (Computer Science and Engineering) during the year 2015-2016.

Month Lung 33/02/19

Mr. M. JAGANATHAN, M.E.,

SUPERVISOR,

Assistant Professor/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-II) Viva-Voce examination held on 27.6/6.

Internal Examiner

External Examiner

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

Page 183 of 206

KSR INSTITUTE FOR ENGINNEERING AND TECHNOLOGY TIRUCHENGODE-637215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "EFFICIENT QUERY HANDLING ON BIGDATA BY USING FASTRAQ" is the bonafide record of Project Work (Phase-I) HAMSAREKA S (Reg.No:731614405002) of M.E. (Computer Science and Engineering) during the year 2015-2016.

Dr. B. KALAAVATHI,

SUPERVISOR

Professor& Head/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT

Professor& Head/CSE

Submitted for the project work (Phase-II) Viva-Voce examination held on 27/06/2016

Internal Examiner

External Examiner

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

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637 215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "DATA INTEGRITY MAINTENANCE IN CLOUD STORAGE USING HASHING TECHNIQUE" is the bonafide record of Project Work (Phase-II) of KOKILA P (Reg. No.: 731614405003) of M.E. (Computer Science and Engineering) during the year 2015-2016.

P. 8 2 16 16

Mrs. P. SUMATHI, SUPERVISOR,

Assistant Professor/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor& Head/CSE

Submitted for the project work (Phase-II) Viva-Voice examination held on 27.6.2016

Internal Examiner

External Examiner

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

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY **TIRUCHENGODE-637215**

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "PROTECTING USER IDENTITY IN GEO-SOCIAL APPLICATIONS USING COORDINATE TRANSFORMATIONS" is the bonafide record of Project Work (Phase-II) of KRUTHIKA P (Reg.No:731614405004) of M.E (Computer Science and Engineering) during the year 2015-2016.

Mr. T. SOUNDER RAJAN, M.E., SUPERVISOR,

Assistant Professor/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-II) Viva-Voce examination held on 27.6.2016

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

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

External Examiner

Page 186 of 206

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "AN EFFICIENT SEARCH SCHEME OVER ENCRPTED DATA ON MOBILE CLOUD" is the bonafide record of Project Work (Phase-II) of NIVETHA.R (Reg.No.:731614405005) of M.E. (Computer Science and Engineering) during the year 2015-2016.

Dr. G. MALATHY,

SUPERVISOR,

Associate Professor/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-II) Viva-Voce examination held on 27.6.2016

Internal Examiner

External Examiner

PRINCIPAL.

K. S. R. INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K. S. R. KALVI NAGAR,

TIRUCHENGOPT 517 215,

NAMAKKAL DE INMIL NADU.

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "RESOURCE ALLOCATION FOR PHASE-LEVEL USING MAPREDUCE IN HADOOP FRAMEWORK" is the bonafide record of Project Work (Phase-II) of PAVITHRA S (Reg.No.:731614405006) of M.E. (Computer Science and Engineering) during the year 2015-2016.

Dr. G. MALATHY,

SUPERVISOR,

Associate Professor/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-II) Viva-Voce examination held on 27-6-2016

Internal Examiner

External Examiner

PRÍNCIPAL.
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY.
K. S. R. KALVI NAGAR.
TIRUCHENGODE-62* 215,
NAMAKKAL DI. TAMIL NAUU.

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637215

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "DYNAMIC PROOFS OF RETRIEVABILITY SCHEME IN CLOUD COMPUTING" is the bonafide record of Project Work (Phase-II) of RAVIKUMAR K (Reg.No.:731614405007) of M.E. (Computer Science and Engineering) during the year 2015-2016.

Mr. M. JAWAHAR, M.E.,

SUPERVISOR,

Assistant Professor/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-II) Viva-Voce examination held on 27 - 06-16

Internal Examiner

External Examiner

PRINCIPAL.

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

Page 189 of 206

KSR INSTITUTE FOR ENGINNEERING AND TECHNOLOGY TIRUCHENGODE-637215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "SECURE MULTI-KEYWORD TOP KEY RANKED SEARCH SCHEME OVER ENCRYPTED CLOUD DATA" is the bonafide record of Project Work (Phase-II) of RENUGADEVI N (Reg.No.:731614405008) of M.E.(Computer Science and Engineering) during the year 2015-2016.

Dr. B. KALAAVATHI,

SUPERVISOR

Professor & Head/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-II) Viva-Voce examination held on-27.06:2016

Internal Examiner

External Examiner

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

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637 215 ANNA UNIVERSITY, CHENNAI 600 025

BONAFIDE CERTIFICATE

This is to certify that the project titled, "PREDICTING PRODUCT FEATURES BASED ON DECISION TREE ALGORITHM" is the bonafide record of Project Work (Phase-II) of SATHIYAKALA S (Reg. No.: 731614405009) of M.E. (Computer Science and Engineering) during the year 2015-2016.

Mr. P. KRISHNA SANKAR

SUPERVISOR

ASSISTANT PROFESSOR

Department of Computer Science

and Engineering

Dr. B. KALAAVATHI

HEAD OF THE DEPARTMENT

PROFESSOR and HEAD

Department of Computer Science

and Engineering

Submitted for the project work (Phase-II) Viva-Voce examination held on 27-26-2016

Internal Examiner

External Examiner

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

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637 215 ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

This is to certify that the project titled, "SECURE MESSAGING USING ANDROID QR CODE AUTHENTICATION BASED FRIENDING" is the bonafide record of Project Work (Phase-II) of VASUKI M (Reg.No.:731614405010) of M.E. (Computer Science and Engineering) during the year 2015-2016.

Mrs. P. SUMATHI,

SUPERVISOR,

Assistant Professor/CSE

Dr. B. KALAAVATHI,

HEAD OF THE DEPARTMENT,

Professor & Head/CSE

Submitted for the project work (Phase-II) Viva-Voce examination held on 27.06.16

Internal Examiner

External Examiner

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

BONAFIDE CERTIFICATE

Certified that this thesis titled "SOLAR TRACKING ROBOTIC VEHICLE USING ARM PROCESSOR" is the bonafide work of KRISHNA KUMAR P (Reg. No.:731614431002) who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does not from part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other scholar.

SIGNATURE

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

SIGNATURES 5.16.

Mr. C. SANTHAKUMAR, M.E., (Ph.D).,

MBA., MISTE.,

HEAD OF THE DEPARTMENT

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

SUPERVISOR

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

Submitted for the Project work Viva-Voce held on 27/6/16.

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL,
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
TIRUCHENGODE - 637 215,
NAMAKKAL DI, TAMIL NADU.
Page 193 of 206

BONAFIDE CERTIFICATE

Certified that this Report titled "SAFETY AND SECURITY IN RFID BASED MULTILEVEL VEHICLE PARKING SYSTEM" is the bonafide work of JAYANTHI R (Reg. No.:731614431001) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported herein does not from part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

SIGNATURE

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

HEAD OF THE DEPARTMENT

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

SIGNATURE

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

SUPERVISOR

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

Submitted for the Project Work Viva-Voce held on 37.06.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRÍNCIPAL,
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. P. KALVI NAGAR,
TIRUCHENGODE - 637 215,
NAMARKAL DE TANIE NADU.

BONAFIDE CERTIFICATE

Certified that this thesis titled "RASPBERRY PI (MODEL B) BASED INTERACTIVE HOME AUTOMATION SYSTEM" is the bonafide work of RAMYA A (Reg. No.:731614431003) who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does not from part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other scholar.

SIGNATURE

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

HEAD OF THE DEPARTMENT

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

Mr. T. SRIHARI, M.E.,

SUPERVISOR

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

Submitted for the Project work Viva-Voce held on 27 - 6 - 16

INTERNAL EXAMINER

EXTERNAL EXAMINER

FRINCIPAL,
K. S. R. HISTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
TIRUCHENGODE - 637 215,
NAMAKKAL DI, TAMIL NAGV.

BONAFIDE CERTIFICATE

Certified that this Thesis titled "ANN BASED REGENERATIVE BRAKING SYSTEM OF ELECTRIC VEHICLE USING BLDC MOTOR" is the bonafide work of RAVI A (Reg. No.:731614431004) who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does not from part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

SIGNATURE

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

HEAD OF THE DEPARTMENT

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

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

SUPERVISOR

Professor

Electrical and Electronics Engineering K S R Institute for Engineering and Technology,

Tiruchengode - 637 215.

Submitted for the Project work Viva-Voce held on 27.6.16

INTERNAL EXAMINER

EXTERNAL EXAMINER

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

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

ANNA UNIVERSITY: CHENNAI - 600 025

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "FLOW ANALYSIS OF HEAT EXCHANGER IN RADIATOR BY USING CFD" is the bonafide record of project phase-I of M.THIRUMOORTHY ME CAD/CAM Who carried out the work under my supervision during the year 2015-2016.

SIGNATURE

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

Professor,

Department of mechanical engineering, KSR institute for engineering and

technology,

Tiruchengode – 637 215.

SIGNATURE

Mr.T.PRABÙ,M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode – 637 215.

Submitted to the project report and viva - voice examination held

on 14.12.15

INTERNAL EXAMINER

EXTERNAL EXAMINER

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY.
K S R KALVI NAGAR,
Pageci 97 Not 206 637 215,

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOY TIRUCHENGODE - 637 215

ANNA UNIVERSITY: CHENNAI – 600 025

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "COMPUTATIONAL STUDY OF THERMAL COMPORT ENHANCEMENT IN A MULTY UTLITY VEHICLE" is the bonafide record of project phase-I work of R.SASIDARAN ME CAD/CAM Who carried out the work under my supervision during the year 2015-2016.

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

Professor,

Department of mechanical engineering, KSR institute for engineering and

technology,

Tiruchengode -637215.

Mr.R.VASANTHAKUMAR,M.E.,

SUPERVISOR,

Assistant Professor,

Department of mechanical

engineering,

KSR institute for engineering and

technology,

Tiruchengode - 637 215.

Submitted to the project report and viva - voice examination held

on 14 12 15

S R INSTITUTE FOR ERIAG AND TECHNOLOGY.

Pade 198 6 206 -637 215, MAKKAL Dt. TAMIL NADU.

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

ANNA UNIVERSITY: CHENNAI - 600 025

BONAFIDE CERTIFICATE

This is to certify that the project entitled, "STATIC AND DYNAMIC ANALYSIS OF AIR FOIL STRUCTURE BY USING CO-ORDINATES IN CFD" is the bonafide record of project phase-I work of P.SABARINATHAN ME CAD/CAM Who carried out the work under my supervision during the year 2015-2016.

SIGNATURE

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

HEAD OF THE DEPARTMENT,

Professor,

Department of Mechanical Engineering,

KSR Institute for Engineering and

Technology,

Tiruchengode – 637 215.

SIGNATURE

Mr.P.GOPINATH,M.E.,(Ph.D)

SUPERVISOR,

Associate Professor,

Department of mechanical engineering,

KSR Institute For Engineering and

Technology,

Tiruchengode – 637 215.

Submitted to the project report and viva - voice examination held

on 14:12:15

INTÉRNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL.

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVI NAGAR.

TRUCHENGODE-637-215,

NAMAKKAL DI, TAMIE NADU.

Page 199 of 206

ANNA UNIVERSITY, CHENNAI BONAFIDE CERTIFICATE

Certified that this Report titled "FLOW ANALYSIS OF HEAT EXCHANGER IN RADIATOR BY USING CFD" is the Bonafide work of M.THIRUMOORTHY (731614402003) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Professor and Head

Asst. Professor

Department of Mechanical Engineering

Department of Mechanical Engineering

KSR Institute for Engineering KSR Institute for Engineering

Care Daries in 1800 to

and Technology

Submitted for the Project report Viva Voce Examination held on ..! 4.1.2.1.5.

AMARAA DI. TAMIL NADU.

Page 200 of 206

ANNA UNIVERSITY, CHENNAI BONAFIDE CERTIFICATE

Certified that this Report titled "COMPUTATIONAL STUDY OF THERMAL COMFORT ENHANCEMENT IN A MULTI UTILITY VEHICLE" is the Bonafide work of R.SASIDARAN (731614402002) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

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

Mr.R.VASANTHAKUMAR M.E.(Ph.D)

Professor and Head

Asst. Professor

Department of Mechanical Engineering

Department of Mechanical Engineering

KSR Institute for Engineering

KSR Institute for Engineering

and Technology

and Technology

Tiruchengode

Tiruchengode

Submitted for the Project report Viva Voce Examination held on .14/02/15...

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL.

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY,

K S R KALVI NAGAR,

TIRUCHENGODE-637 215,

NAMAR AGGE 20 HIOF 206

ANNA UNIVERSITY, CHENNAI BONAFIDE CERTIFICATE

Certified that this Report titled "STATIC AND DYNAMIC ANALYSIS OF AIR FOIL STRUCTURE BY USING NACA CO-ORDINATES IN CFD." is the Bonafide work of P.SABARINATHAN (731614402001) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

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

Professor and Head

Department of Mechanical Engineering

KSR Institute for Engineering and Technology

Tiruchengode, Namakkal.

Mr.P.GOPINATH M.E., (Ph.D.)

Associate Professor

Department of Mechanical Engineering

KSR Institute for Engineering and Technology

Tiruchengode, Namakkal.

Submitted for the Project report Viva Voce Examination held on 14.12.2015.

INTERNAL EXAMINER

EXTERNAL EXAMINER

FRINCIPAL.

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY

K S R KALVI NAGAR.

TIRUCHENGODE 637 215

Page 202 of 20600

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY **TIRUCHENGODE - 637 215** ANNA UNIVERSITY CHENNAI 600 025

BONAFIDE CERTIFICATE

This to certify that the project entitled, "COLLABORATIVE ADAPTIVE DATA SHARING PLATFORM APPROACH FOR TRAVEL PACKAGE RECOMMENDATION" is the bonafide record of project work(Phase-I)of AARTHI K Reg. No:731614421001) of M.E. (Software Engineering) during the year 2015-2016.

p.ma interfer P. Ma contain

P.MEENAKSHI DEVI M.E., Ph.D., Dr.P.MEENAKSHI DEVI M.E., Ph.D.,

PERVISOR

HEAD OF THE DEPARTMENT

Professor & Head/IT

Professor & Head/IT

semitted for the Project work (Phase-I) Viva-Voice Examination held on .15.12.15...

RUCHENGODE - 637 213,

Examiner

NAMARKAL Dt, TAMIL NADExternal Examiner

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE-637 215 ANNA UNIVERSITY CHENNAI 600 025

BONAFIDE CERTIFICATE

This to certify that the project entitled, "An Efficient Crypto Based Security Authenticaton System for Detecting Deduplication on Cloud Storage" is the bonafide record of Project Work (Phase-I) of SURIYA L (Reg.No:731614421002) of M.E. (Software Engineering) during the year 2015-2016.

Mrs. M. DHURGA DEVI M.E.,

SUPERVISOR

AP/IT

p. ma or lotistis

Dr. P. MEENAKSHI DEVI M.E., Ph.D.,

PROFESSOR AND HEAD

DEPARTMENT OF IT

Internal Examiner

PRINCIPAL,

S. R. INSTITUTE FOR

RING AND TECHNOLOGY,

S. R. KALVI NAGAR

CHENGODE - 632

NAMAKKAL DI, TAMIL NAGAR

External Examiner

Page 204 of 206

BONAFIDE CERTIFICATE

MODEL-DRIVEN METHOLODOGY FOR DEVELOPING SECURE DATA MANAGEMENT APPLICATIONS" is the bonafide work of AARTHI K (Reg.No:731614421001) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basics of which a degree or award was conferred on an earlier occasion on this or any other candidate.

produce produce 23616

Dr.P.MEENAKSHI DEVI M.E., Ph.D.,

Dr.P.MEENAKSHI DEVI M.E., Ph.D.,

Professor and Head

Professor and Head

Department of IT

Department of IT

KSR Institute for Engineering and

KSR Institute for Engineering and

Technology

Technology

Tiruchengode-637215

Tiruchengode-637215

semitted for the Project work (Phase-II) Viva-Voice Examination held on 2.7.06.16.

27/6/15 EN

ternal Examiner

PRINCIPAL,

K. S. R. INSTITUTE FOR

NGINEERING AND "ECHNOLOGY,

K. S. R. KALVI (GAR,

TIRUCHENG 637 215, NAMAKKAL DE, TAMIL NADU.

External Examiner

Page 205 of 206

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY ANNA UNIVERSITY CHENNAI -600 025

BONAFIDE CERTIFICATE

This to certify that the Report entitled, "A Secure Distributed Deduplication Systems With Improved Reliability on Cloud Storage" is the bonafide record of work (phase-II) of SURIYA L (Reg.No:731614421002) of M.E. (Software Engineering) who carried out the work under my supervision. Certified further that to best of My Knowledge the work reported here in does not form part of any other thesis or dissertation on an earlier occasion on during the year 2015-2016.

and the second	00080
P MA - TIME	M. QCISil
	216/16

Dr. P. MEENAKSHI DEVI M.E., Ph.D.,

Professor & Head

Department of IT

Mrs. M. DHURGA DEVI M.E.,

Supervisor

Assistant Professor/IT

ce Examination held on. 27 6 16 for the Project work (Phase-II) Viva-V

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

NAMARKAL Dt, TAMIL NADU.

External Examiner

ternal Examiner