K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the Project work entitled "Design and Analysis of Multi Storied Building Using E-TABS" is a bonafide work carried out by

DINESH KUMAR G 1KG16CV402

SYED KHADEER S 1KG16CV412

In partial fulfilment for the award of "Bachelor of Engineering in Civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Signature of the Guide Shashi Prasad.N Assistant Professor Dept. of Civil Engg KSSEM, Bengaluru V.KLEULE Signature of HOD Dr. Vijayalakshmi Akella IRcolessonahildidad DepoptCistleBigineegigg K.SkiStang/Ensightings K.S. School of Engineering & Management Bangalore-560 652,

15. Rome it

Signature of Principal 13 (G) Dr. Rama Narasimha Principal KSSEM Bengaluru Dr. K. RAMA NARASIMHA Principal/Director

K S School of Engineering and Manager Bengaluru - 560 109

Examiners

Name and Signature of Examiner-1



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "ANALYSIS AND DESIGN OF MULTI-STOREYED HOSPITAL BUILDING USING ETABS" is a bonafide work carried out by

SHASHANK.PANDAGA.M

in partial fulfillment for the award of "Bachelor of Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of Internal Guide Mr.Naveena.M.P Assistant Professor Dept. of Civil Engg. KSSEM, Bengaluru

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Professor & Head Dept. of Civil Engineering K.S. School of Engineering & Manag Bangalore 560 012 Dept. of Civil Engg. KSSEM, Bengaluru

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Dr. KPIRAMAINDRO Principal/Director K. B. Group of Institutions A kell & Schoorof Ranghae Hangaina Wanagen Bengpunktifal 109 KSSEM, Bengaluru

Dr. DREKOL VIDAY MA 14/6/19

Name and Signature of Examiner-1

Karpagen Romesh

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled ""Optimization of RCC Multi-Storey buildings subjected to Seismic Forces by considering Retaining Wall as an additional supporting system" is a bonafide work carried out by

Shravan C	1KG15CV049	
Lakshmi S	1KG16CV404	
Suman Bharadwaj	1KG16CV411	
Vyshak Gowda P	1KG16CV413	

in partial fulfilment for the award of Batchelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2013-14. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of

Name and Signature of Internal Guide Name and Signatore Industrial Guide

Professor & Head of the Principal/ Professor & Head Principal/ Professor & Head Principal/ Director Bept. of Civil EngineeSchool of Engineering & Management K.S. Graup of Institutions Bangalore-560 062

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Department of Civil Engineering

Certificate

This is to certify that the Project work entitled "Suitable Site selection for Solid waste disposal using Remote Sensing and GIS technique in Kanakapura Municipality, Karnataka" is a bonafide work carried out by

DINESH V	1KG15CV010
K NAGASRI	1KG15CV020
MYTHRI YADAV D	1KG15CV034
SACHIN T	1KG15CV046

In partial fulfilment of award degree of Bachelor of Engineering in Civil Engineering of Visveswaraya technological university, Belagavi during the year, 2018-2019. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated.

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Dr. Vyshali **Project** Guide

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Dr. Vijayalakshmi Akella Head of the Department Dept. of Civil Engmeering K.S. Group of Institutions K.S. School of Engineering and Manager Bangalore-560 62

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Dr. K. Rama Narasimh Principal/Director

Dr. K. RAMA NARASIMHA Bengaluru - 560 109

Name and Signature of Examiner-1

Name and Signature of Examiner-2

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Certificate

This is to certify that the project work entitled "COLLABORATION OF 3-D MODEL AND CONSTRUCTION SCHEDULE OF A COMMERCIAL BUILDING USING BUILDING INFORMATION MODELLING" is a bona fide work carried out by

ASHWINI M J	1KG15CV003	
CHAITANYA M L	1KG15CV007	
KISHORE K	1KG15CV019	
SAGAR L M	1KG15CV047	

In partial fulfilment for the award of "Bachelor of Engineering in Civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report for the degree.

Name and Signature of Internal Guide

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Assistant Professor

Dept. of Civil Engg.

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University Examiners:

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Principal HamACNARC SIMILA Principal/Director K S School of Engineering and Managers Dr. Ragen genesins 69 109

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Name and Signature of Examiner-1

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Department of Civil Engineering

Certificate

This is to certify that the Project work entitled "Design of Energy Efficient Building Envelope for Moderate Climate" is a bonafide work carried out by

KALDEN DORJEE	1KG15CV021
RAVI KUMAR.S	1KG15CV045
TEJASWI SANGAMITRA	1KG15CV053
UBAID AHMAD SODAGAR	1KG15CV057

In partial fulfilment for the award of "Bachelor of Engineering in Civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Signature of the Internal Guide Dr. Vijayalakshmi Akella Professor and Head Dept. of Civil Engg. KSSEM, Bengaluru.

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Signature of Head of the Department Dr. Vijayalakshmi

Akella Professor & Head

K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

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Signature of the

Principal/Director

Dr. K. Rama Narasimha Dr. K. RAMA NARASIMHA Principal/Director Dept. of Civil Engine FingSchool of Engineering and Management Bengaluru - 560 109

Examiners

Name and Signature of Examiner-1

Name and Signature of Examiner-2

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Department of Civil Engineering

Certíficate

This is to certify that the project work entitled **Experimental Studies on** applications of Jute Geotextiles in Ground Improvement is a bonafide work carried out by

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Raghavendra B R	1KG15CV039
Muniraju G B	1KG16CV407
Shyla C	1KG16CV410

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Dr. AREKAL VISAY

Name and Signature of Internal Guide

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Head of the Department Professor & Head Dept. of Civil Engineering K S Sch K.S. Group of Institutions S. School of Engineering & Management Bangelore-560 002

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Department of Civil Engineering

Certificate

This is to certify that the project work entitled Study on Synthesis and Characterization of Geo-Polymer Aggregates is a bonafide work carried out by

ABILASH J	1KG14CV002	
SANDEEP R C	1KG15CV048	
VIJAY CHANDRA T K	1KG15CV055	
VIJAY KUMAR R	1KG15CV056	

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Nauna MP

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Head of the Department Professor & Head $(<.R_{000})$ Principal/Director 13 [G.][

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Department of Civil Engineering

Certíficate

This is to certify that the project work entitled "Pedestrian Management at KSIT function by Signal design" is a bonafide work carried out by

JAGADEESHAN Y

1KG15CV018

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Dr. Rama Narasimha Principal KSSEM, Bengaluru

Name and Signature of Examiner-1

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Department of Civil Engineering

Certíficate

This is to certify that the project work entitled "EXPERIMENTAL STUDY ON MECHANICAL AND ELECTRICAL BEHAVIOR OF HARDNEND PIEZOELECTRIC **CONCRETE**" is a bonafide work carried out by

BHAVYA N	1KG16CV400
JAYANTH KUMAR D	1KG16CV403
NAVEEN K S	1KG16CV408
PRADEEP T	1KG16CV409

in partial fulfilment for the award of "Bachelor of engineering in civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Assistant Professors Dept. of Civil Engg. KSSEM, Bengaluru

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Department of Civil Engineering

Certíficate

This is to certify that the project work entitled **"EXPERIMENTAL** INVESTIGATION ON THE MECHANICAL & DURABILITY PROPERTIES OF CONCRETE BY USING PELLETIZED CUT RUBBER AS ALTERNATIVE FOR COARSE AGGREGATE" is a bonafide work carried out by

CV009
CV042
CV405
CV406

in partial fulfilment for the award of **"Bachelor of engineering in civil Engineering"** of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Mr. MANJUNATH B & Mr. PRASHANTH Assistant Professors Dept. of Civil Engg. KSSEM, Bengaluru University Examiners: W.M.(e)(-Protessor & Head-Hophotof Giv Kingshrending K.S. Group of Institutions K.S. School of Engineering & Management Dr. Vijngang Lanarija Management

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Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Analysis and design rail cum road bridge" is a bonafide work carried out by

Manoj Mallik Churchihal	1KG15CV029	
Mohith S Reddy	1KG15CV032	
Naveen J	1KG15CV035	
Nischal Madhu	1KG15CV036	

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Name and Signature of Internal Guide

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MAITHILI K.L. Maithili

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project entitled "DESIGN AND ANALYSIS OF THE SKYWALK AT OUTER RING ROAD FROM ESHWARI THEATRE TO APOLLO PHARMACY, BENGALURU" is a bonafide work carried out by

BASAVANAGOWDA GN	1KG15CV005
GANGENENI HARISH KUMAR	1KG15CV014
GONUGUNTLA HARI PRIYA	1KG15CV015
GOWTHAM RJ	1KG15CV016

in partial fulfilment for the award of "Bachelor of Technology in Civil Engineering" of Vishvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of seminar prescribed for the degree.

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Professor and Head Dept. of Civil Engg. KSSEM, Bengaluru

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Head of the Department Dr. K. Prandipal/APionstont

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Untrelle 12-Rome 1t

Principal/Director

Bengaluru - 560 109 Principal KSSEM, Bengaluru

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certíficate

This is to certify that the project work entitled **Study on Seismic Behavior of** Heritage Monument Gol-Gumbaz Using E-Tabs is a bonafide work carried out by

> AKSHAY KUMAR H R KUSHAL S MANASA T S

1KG15CV001 1KG15CV027 1KG15CV028 1KG16CV414

YASHAVANTH M

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of Internal Guide	Name and Signature of Internal Guide	Head of the Department, Sc Professor & Head Pept. of Civil Engineering	Principarity Director hool Directorering & Managen Bangalore-560 062	
University Examiners:	K S. Sche	K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.		
	48 I			
Name and Signature of Exan	niner-1 N	ame and Signature of	f Examiner-2	

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "BEHAVIOUR OF BUILDING WITH MASONRY INFILLS SUBJECTED TO LATERAL LOADS" is a bonafide work carried out by

MADAN GOPAL.V

1KG17CSE08

in partial fulfilment for the award of "MASTER OF TECHNOLOGY" of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of Internal Guide

Dr. Vijayalakshmi Akella

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Dr. Vijayalakshmi Akella Professor and Head Dept. of Civil Engg. KSSEM, Bengaluru.

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Principal/ Director

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University Examiners:

Name and Signature of Examiner-1

Name and Signature of Examiner-2

K.S. School of Engineering and Management

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K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "PARAMETRIC STUDY ON BEHAVIOUR OF POST-TENSIONED RECTANGULAR AND TRAPEZOIDAL BOX-GIRDER BRIDGE USING FINITE ELEMENT AND CLASSICAL METHOD" is a bonafide work carried out by

NANDANA P 1KG17CSE09

in partial fulfilment for the award of "MASTER OF TECHNOLOGY" of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of Internal Guide

Mr. Naveena M. P Assistant Professor Dept. of Civil Engg. KSSEM, Bengaluru.

University Examiners:

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Dr. Vijayalakshmi Akella Professor and Head Dept. of Civil Engg. KSSEM, Bengaluru.

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Dr. K. PEINCIPAL DI K.S. Scheel of Engineering & Mana school of Engineering and Management Bengaluru - 560 109 Dr. K. Rama Narasimha

Principal KSSEM, Bengaluru.

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "PUSHOVER ANALYSIS OF G+9 STOREY BUILDING WITH AND WITHOUT SHEAR WALLS AT DIFFERENT LOCATIONS" is a bonafide work carried out by

KIRAN KUMAR C

1KG17CSE06

in partial fulfilment for the award of "Master of Technology in Structural Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Wille

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Name and Signature of Internal Guide Head of the Department

Dr. Vijayalakshmi Akella

Professor and Head of Dept. of Civil Engg. KSSEM, Bengaluru/

Dr. Vijayalakshmi Akella

Professor and Head of Dept. of Civil Engg. KSSEM, Bengaluru 1 < . 6 = 2Principal/Director 3 9/19

Dr. K Rama Narasimha

Principal KSSEM, Bengaluru

University Examiners:

Name and Signature of Examiner-1

Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109 **Department of Civil Engineering** Certificate This is to certify that the project work entitled "EFFECT OF TRANSFER SLAB IN HIGH RISE BUILDINGS UNDER SEISMIC CONDITIONS" is a bonafide work carried out by 1KG17CSE04 KAILASH.N in partial fulfilment for the award of "MASTER OF TECHNOLOGY" of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree. 3118/19. Law 15. Rome \$ 31/5/19 Wittelle Principal/ Director Name and Signature of Head of Department

Internal Guide Prashanth.M

Manjunath.B Assistant Professor Dept. of Civil Engg. KSSEM, Bengaluru.

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Name and Signature of Examiner-1

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Computer Science and Engineering

Certificate

This is to certify that the project work entitled Development of Automated Water

Distribution System using IoT and Cloud Applications is a bonafide work carried out by

Archana M S1KG15CS005Bhat M Krishna Chaitanya1KG15CS008N Ganesh1KG15CS058

in partial fulfilment for the award of **Bachelor of Engineering in Computer Science** and **Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and satisfies the academic requirement in respect of project work prescribed for the degree.

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Mrs. Poonamsree S Assistant Professor, Dept. of CSE Mrs. Veena R S Dept. of Associate Professor & Hoffing K.S. Sch Dept of CSEring & Management

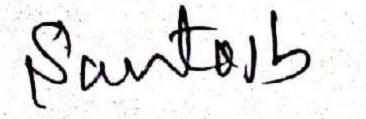
Dr. K Rama Narasimha Principal/Director Reserval/Director

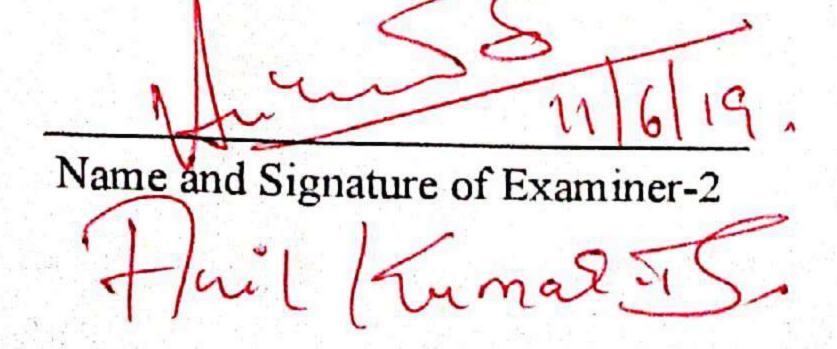
Bangalore-560 062

K.S School of Engineering & Management Bangalore-560 062

University Examiners:

Name and Signature of Examiner-1





No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Computer Science and Engineering

Certíficate

This is to certify that the project work entitled "Design and Development of Web Application to Detect Informal Cribbing by Students using NLP Technique" is a bonafide work carried out by

L S DINAKAR RAM	1KG15CS047	
NAVEEN KUMAR P V	1KG15CS060	
RAJESH KUMAR	1KG15CS085	

in partial fulfilment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and it satisfies the academic requirement in respect of project work prescribed for the degree.

Mrs Megha J Associate Professor Internal Guide

Prof. Veena R S, Dr. Br. RaRAMANARASIN

Prof. Veena R S, Associate Prof. & Head Dept_of GSE Dept_of GSE Bengaluru - 560 109

Dept. of Computer Science & Engineering K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

Name and Signature of Examiner-1

Santosh kmay J

Name and Signature of Examiner payhave dorchas to.

No. 15, Mallasandra, off Kanakapura Road, Bengaluru - 560062



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled Braille based Mobile Communication and Translation Glove for Deaf-Blind People is a bonafide work carried out by

Yashwanth K H	1KG14EC102
Prasanna P	1KG15EC061
Shashank P	1KG15EC075
Vishwas S	1KG15EC096

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name an

Guide

Head of the Department

Principal Daire CROKMA NA Principal/Director K S School of Engineering and Management Bengaluru - 560 109

University Examiners:

Fa16 49 Name and Signature of Examiner-1

P.B. Mano

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Implementation of IoT based Intelligent Vehicle System for Pollution Monitoring using ARM7 is a bonafide work carried out by

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Anusha R	1KG15EC007
Jeevitha J V	1KG15EC027
P R Aishwarya	1KG15EC053

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Zaiba Zaibs

Name and Signature of Guide

Head of the Departm Professor & Head Dept. of Electronics & Communication Engineering K. S. School of Engineering & Management Barigalore-560 109

Principal Director

University Examiners:

Name and Signature of Examiner-1

ULLI P.B. Mano

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled "Implementation of Biometric Based and Aadhaar Linked Electronic Voting Machine for Migrated People" is a bonafide work carried out by

> P Sai Teja K Y Keerthi Anusha S P

1KG15EC054 1KG15EC031 1KG15EC008

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

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Prinsipal/ Riporton ARASIA Head of the De Principal/Director Professor & Head Dept. of Electronics & Communication Engineering of Engineering and Management K. S. School of Engineering & Management Bengaluru - 560 109 Bangalore-560 109

University Examiners:

Name and Signature of Examine

P.B.Manoj Ley 11.6.19 Name and Signature of Examiner-2

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Department of Electronics and Communication Engineering

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This is to certify that the project work entitled Design and Implementation of Canal Automation using LabVIEW is a bonafide work carried out by

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Aravind R K	1KG15EC011
Chethan M	1KG15EC015
H P Ruthwik Nayak	1KG15EC022

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University Examiners:

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Name and Signature of Examiner

P.B. Manoj 14 [11.6.19

Name and Signature of Examiner-2

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Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Design and Implementation of a Smart Glove using ESP32 for Gesture Recognition Applications is a bonafide work carried out by

> Sahana R Sumithraj Shetty U Sushma G S

1KG15EC070 1KG15EC085 1KG15EC090

in partial fulfilment for the award of Bachelor of Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

BARU (Ravikiran B.A.)

Name and Signature of Internal Guide

Professor & Head

Head of the Department

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Principal/ Dire Principal/Director Dept. of Electronics & Communication Eligeneering of Engineering and Management

K. S. School of Engineering & Management Bengaluru - 560 109 Bangalore-560 109

University Examiners:

Name and Signature of Examiner

-1 P. B. Manoj (12.6.19 Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Implementation Of Smart Robot For Land Survey Using Arduino Mega is a bonafide work carried out by

Alekhya J1KG15EC004Atiya Fatima1KG15EC013Mamatha M1KG15EC041Pathipati Yaswanth Kumar1KG15EC057

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and** communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

SHANTHALA.G.M.

Name and Signature of Internal Guide

Head of the Department Professor a nead Dept. of Electronics & Communication Engineering K. S. School of Engineering & Management Bangalore-560 109

University Examiners:

Examiner+1 Signature of

P.B. Manog Lite ame and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electronics and Communication Engineering

Certífícate

This is to certify that the project work entitled "Design and Implementation of Human Emotion Recognition System From Voice Samples Using MFCC and SVM" is a bonafide work carried out by

G Mahesh	1KG15EC018
Kavitha GN	1KG15EC033
Lekhashree K	1KG15EC040
R M Mouhith	1KG15EC064

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belagavi, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Shipa A.P Internal Gu

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Dept. of Electronics & Communication Engineering pair Director K. S. School of Engineering & Management Principal / Director K.S. School of Engineering & Management Bangalore-560 109 Bangalore-560 062

1 14 P.B. Mangi

Name and Signature of Examiner-2

University Examiners:

21620 Name and Signature of Examine

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560062



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled "Design and Implementation of LFM for Radar Timing Generation by DDS Technique on an PPGA" is a bonafide work carried out by

Pooja M R	1KG15EC058
Sanjana M	1KG15EC073
Sudhanva Anand	1KG15EC083
Vibha N	1KG15EC095

in partial fulfilment of the requirements for VIII Semester of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

University Examiners:

Bangalore-560 062

Professorachbad Principal Director Dept. of Electronics & Communication Engineering & Managament K. S. School of Engineering & Management

Bangalore-560 109

Name and signature of examiner 2

Name and signature of examiner 1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled Design And Implementation Of Autonomous Driverless Car is a bonafide work carried out by

1KG15EC071
1KG15EC082
1KG15EC093
1KG15EC094

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Internal Guide KSSEM, Bangalore

(r. Rome 1)

Head of the Department Principal/Drinkct@AMA NAR Assistant Prof, Dept of EC Bept. of Electronics & Communication Engineering Principal/Director K. S. School of Engineering & Management S School of Engineering and Management Bangalore-560 109

University Examiners:

Name and Signature of Examine

Name and Signature of Examiner-2

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Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Design and Implementation of Smart Energy Management System is a bonafide work carried out by

Sanjana R	1KG15EC074	
Sireesha M	1KG15EC080	
Suhas G R	1KG15EC084	

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

1-1-016/19 Renuka . V. J

Name and Signature of Internal Guide

Head of the Departmenteau Dept. of Electronics & Communication Engineering K. S. School of Engineering & Management K.S. School of Engineering & Management

Principal/ Direct Principal / Director Bangalore-560 062

University Examiners:

Name and Signature of E

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560062.



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Smart Traffic Awareness System is a bonified work carried out by

> Aniruddha M Vajpeyam Yeshwanth Kumar M R Umesh N

1KG14EC005 1KG13EC118 1KG14EC056

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of technical seminar prescribed for the degree.

Name and Signature of the

Internal Guide

K. S. School of Engineering & Management Bangalore-560 109

Head of the Department Professor & Head

MA NARABUMA

PrinchalcipaleDicector KS School of Engineering and Manag Dept. of Electronics & Communication Engineering Bengaluru - 560 109

Universit

Name and Signature of Examiner-1

G.K.VENKATEST

Name and Signature of Examiner-2

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Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled "Design and Implementation of **Agricultural Robot for Sowing Seeds and Irrigation in Real Time using IoT"** is a bonafide work carried out by

Divya Prathibha	1KG15EC017
Harshitha T H	1KG15EC025
K Vineeth	1KG15EC030
KavyaShree P	1KG15EC036

in partial fulfilment for the award of **Bachelor of Engineering in Electronics** and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Internal Guide

uvelle

Head of the Department Professor & Head Dept. of Electronics & Communication Engineering & Manzgement K. S. School of Engineering & Management Bangalore-560 062

University Examiners:

Name and Signature of Examiner-1

P.B. Manoj

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled "Development of IoT based Remote Monitoring System for Air and Water Pollutants in Industrial Environment" is a bonafide work carried out by

Anupamashree S	1KG15EC006
Gowri Priya A C	1KG15EC021
Harshitha P	1KG15EC024
Keerthishree K V	1KG15EC037

in partial fulfilment for the award of Bachelor of Engineering in Electronics and communication Engineering of Visvesvaraya Technological University, Belagavi, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

PUNGETH S 20/5/19 Name and Signature of

Guide

University Examiners:

Ic. Rome ' Principal/

Department riviustu à ritad K. S. School of Engineering & Management

Bangalore-560 109

Bengaluru - 560-109

Dr. K. RAMANARASIMHA

P. B. Manoy Mg 11.6.19 Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru -560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled **Age Estimation Using Deep Learning** is a bonafide work carried out by

Divya O	1KG14EC021
Nikhath Ameena	1KG15EC047
Nischitha B	1KG15EC048
Priyadarshini N D	1KG15EC062

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and** Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Principal/ 7/6/19

Department Professor & Head Dept. of Electronics & Communication Engineerfigincipal/Director K. S. School of Engineering & Araceprol of Engineering and Management Bangalore-560 100 Bengaluru - 560 109

University Examiners:

e and Signature of F

P.B.Manof

Name and Signature of Examiner-2

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Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled **Development and Implementation** of Highway Electric Power Generation Using Wind Turbine for Smart Traffic and Light Control System is a bonafide work carried out by

> Apeksha M Apoorva J Purohit Ashalatha A Kouser Khanum

1KG15EC009 1KG15EC010 1KG15EC012 1KG15EC038

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name an Guide

K.R. 11.4

Dept. of Electronics & Communication Engineering K. S. School of Engineering & Management Entrysione 168 195 Bengaluru - 560 109

University Examiners:

Name and Signature of Exar

Name and Signature of Examiner-2

Design and Development of the Pneumatic powered wall Hang-Painting Robot using Arduino and RF Controller

A Project Work submitted to



Visvesvaraya Technological University

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

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Bharath H S Sushmitha V Arun H K

1KG14EE009 1KG14EE047 1KG15EE401

Under the Guidance of Mrs. Prathiksha Asst. Professor, Department of EEE KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109 2018-19

K.S. School of Engi No. 15, Mallasandra, off Ka	neering and Management makapura Road, Bengaluru-560109
8.1	KSSSIM
Department of Electrica	and Electronics Engineering
Cer	tíficate
This is to certify that the project wor OF THE PNEUMATIC POWERED W ARDUINO AND RF CONTROLLER'	k entitled "DESIGN AND DEVELOPMENT ALL HANG-PAINTING ROBOT USING " is a bonafide work carried out by
Bharath H S	1KG14EE009
Sushmitha V	1KG14EE047
Arun H K	1KG15EE401
Electronics Engineering of Visvesvi during the year 2018-19. It is certifie internal assessment have been incorp	of Bachelor of Engineering in Electrical and araya Technological University, Belagavi, ed that all the suggestions indicated during porated in the report and this thesis satisfies of project work prescribed for the degree.
Protice PRATHIKSHA Name and Signature of Internal Guide	Head ^P of theore Head Principal Dept. of Department Electronics Engineering Al Sa School of Engineering & Sa School of Engineering & Managemont, Bangalore-560 062. Bangalore-560 062
University Examiners: <u>aw 151619</u> <u>Ramya K.</u> R Name and Signature of Examiner-1	Name and Signature of Examiner-2

Design and Development of Induction Motor Fault Detection System using IoT

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Amruthavarshini B V1KG15EE003Niharika K1KG15EE015Vamsi Krishna Ramineni1KG14EE042

Under the Guidance of Mr. Anil Kumar T.R.B Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2018-19

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electrical and Electronics Engineering

Certíficate

This is to certify that the project work entitled Design and Development of Induction Motor Fault Detection System using IoT is a bonafide work carried out 6y

Amruthavarshini B V	1KG15EE003
Niharika K	1KG15EE015
Vamsi Krishna Ramineni	1KG14EE042

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

ANIL KUMAR

Name and Signature of Internal Guide

JIC

Head of the Department Professor & Head

Principal/Director Dept. of Electrical & Electronics EKS School of Engineering and Management Bengaluru - 560 109 K.S. School of Engineering & Management

Bangalore-560 062.

K.S. Group of Institutions

University Examiners:

Crowsia Sultana Name and Signature of Examin

Design and Development of Transmission Line Protection Unit using PLC

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Bharath R	1KG15EE005
Sushma R	1KG15EE024
Lokeshwari H B	1KG16EE406
Shivaswamy M S	1KG16EE407

Under the Guidance of

Mrs Manjula B G

Associate Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2018-19

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electrical and Electronics Engineering

Certíficate

This is to certify that the project work entitled "Design and development of transmission line protection unit using PLC" is a bonafide work carried out by

Bharath R	1KG15EE005	
Sushma R	1KG15EE024	
Lokeshwari H B	1KG16EE406	
Shivaswamy M S	1KG16EE407	

in partial fulfilment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

LANJULABY

Name and Signature of Internal Guide

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Head of the Department Professor & Hoad Dept. of Electrical & Electronics Engineering & School of Engineering & Management K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

Gousia Sultang

Name and Signature of Examiner¹

Name and Signat

Design and Development of Electromagnetic Robot with Four Wheels Drive Applied PID System

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of Bachelor of Engineering in

Electrical and Electronics Engineering

Submitted by

Sandhya B.S. Varshitha S.C. Karthik M. Jeevan Kishore J. 1KG15EE020 1KG16EE403 1KG16EE404 1KG16EE405

Under the Guidance of

Mrs. Ramya K.R. Associate Professor Dept. of Electrical and Electronics Engg KSSEM, Bangalore Mrs. Tejaswini G.V. Assistant Professor Dept. of Electrical and Electronics Engg KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2018-19

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 **Department of Electrical and Electronics Engineering** Certificate This is to certify that the project work entitled "Design and Development of Electromagnetic Robot with Four Wheel Drive using PID System" is a bonafide work carried out by Sandhya B.S. 1KG15EE020 Varshitha S.C. 1KG16EE403 Karthik M. 1KG16EE404 Jeevan Kishore J. 1KG16EE405 in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree. Jejagwichi GV ILC lamya Name and Signature of

Internal Guide

Head of the

Principal/

Department Dr. KORAMA NARASIMI Professor & Head Principal/Director Dept. of Electrical & Electronics Engkiscischool of Engineering and Management K.S. Group of Institutions Bengaluru - 560 109 K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

Crousia Sultang

Name and Signature of Examiner-2

Magnetic Levitation Model Using PID Controller

A Project Work submitted to



Visvesvaraya Technological University

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

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Manmohan Raj K.N	1KG14EE018
Lekhana R.	1KG15EE012
Paresh Hirani Lakhaman	1KG15EE016
Ranjitha S.	1KG15EE018

Under the Guidance of

Mr. Akshay Kumar.D

Assistant Professor, Department of EEE KSSEM, Bangalore.



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109 2018-2019

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled "Magnetic Levitation Model Using PID Controller" is a bonafide work carried out by

Manmohan Raj K.N	1KG14EE018
Lekhana R.	1KG15EE012
Paresh Hirani Lakhaman	1KG15EE016
Ranjitha S.	1KG15EE018

in partial fulfilment for the award of **Bachelor of Engineering** in **Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

AKSHAY KUMAR.D. Ile (Alhay Kunarp Name and Signature of 1610 Pept. of Feedback Engineering & Management K.S. School of Engineering & Mar Agagalore-560 062 Bangalore-560 U62. University Examiners: Gousia Examiner-2 Name and Signature of Examiner Name

Design and Development of Andriod Based Cooking Robot in Open-Environment

A Project Work submitted to



Visvesvaraya Technological University

in partial fulfilment of the requirements

for the award of degree of

Bachelor of Engineering

in

Electrical and Electronics Engineering

Submitted by

Agnes Priya D'Souza	1KG15EE002
Bharath Kumar Goyal	1KG15EE004
Shloka T. R	1KG15EE022

Under the Guidance of

Mrs. Srinivas Kalyan

Asst. Professor

Department of EEE

KSSEM, Bangalore



Department of Electrical and Electronics Engineering

K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062

2018-19.

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled **Design and development of Android** Based Cooking Robot in Open Environment is a bonafide work carried out by

> Agnes Priya D'Souza Bharath Kumar Goyal Shloka T. R

in partial fulfilment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr. Srinivas Kalyan

Assistant Professor,

A3313(all 11010330

Internal Guide

University Examiners:

Gousia Sultana Name and Signature of Examin

Dr. K. Rama 12 C. W Narasinnia NARASIM

Dept. of EAssosicate Professoroin K S Beneipa Principal/Director K.S. Group of Institutions K.S. SchuDept, EEE, KSSEM gament KSSEM galuru - 560 109 Bangalore-560 062.

1KG15EE002

1KG15EE004

1KG15EE022

Name and Signature of Examiner-2

Study of Bangalore City Transmission Network with Respect of Under Voltage - Remedial Measures

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical &Electronics Engineering

Submitted by

Jai Krishna R Shashank B Patil Spoorthi L.K 1KG14EE015 1KG14EE032 1KG15EE408

Under the Guidance of

Mrs. Gousia Sultana Assistant Professor Department of E&E Engineering KSSEM, Bangalore Mr. Chethan D Executive Engineer (Elecl) Power System Study Cell KPTCL, Bangalore



Department of Electrical & Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062 2018-19 K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical & Electronics Engineering

Certificate

This is to certify that the project work entitled **Study of Bangalore City Transmission Network with Respect of Under Voltage - Remedial Measures** is a bonafide work carried out by

Jai Krishna R	1KG14EE015	
Shashank B Patil	1KG14EE032	
Spoorthi L.K	IKG15EE408	

in partial fulfilment for the award of **Bachelor of Engineering in Electrical & Electronics Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Gousia Sultana nisia Sult Name and Signature of Head of the Principal/ EName and Signature of Director MANARASIMHA Internal Guide Department Industrial Guidendy Cell Principal/Director KPTCL, Kaveri Bhavan K S School of Engineering and Manag Bangalore. Debt. 01 Bengaluru - 560 109 119 alor - 500 00 1 University Examiners: 12.12.2019 Name and Signature of Examiner-2 Name and Signature of Examiner-1

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT



Department of Mechanical Engineering

Certíficate

This is to certify that the Project Work entitled "Design and fabrication of Segway for Industrial purpose" is a bonafide work carried out by

> 1KG13ME035 **RAKESH SIMHA** 1KG13ME047 SANJEEV.V.JADAV 1KG14ME403 KARTHIK.R 1KG14ME404 LIKHITH KUMAR.K.S

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2018-2019, it is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr.BalajoRessor Associate Brotess Department of Marshanical Engineering. . School Of Engineering & Management Bangalore-560,109

K.Rama Narasimha, Dr. K. F

6/12

Addiethar. K S School of Engineering and Management Bengaluru - 560 109

University Examiners:

1)r. BALATI Name and Signature of Examiner-1

Dr.GIRISH DL.

Name and Signature of Examiner-2

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No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Effect of Process Parameters on the Mechanical Properties of a 3D Printed Standard Tensile Test Specimen is a bonafide work carried out by

PAVAN.H	1KG15ME029
RAHUL.J	1KG15ME033
RAJESH.B	1KG15ME036
SHREYAS.S	1KG15ME048

in partial fulfilment for the award of Bachelor of Engineeringin Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

f. NAGARAJ.M.S M Assistant Professor Dept. of Mechanical Engg. K.S.S.E.M.

Mr. Balaii B

Head of Department Dept. of Mechanical Engg

Professor & Head

Dr. K Ramanarasimha **Principal / Director** Principal/Director K.S. School of Engineering & Management Bangalore-560 062

University Examiners:

Department Of Mechanical Engineering K.S. Group Of Institutions K.S. School Of Engineering & Management

Bangalore-560 109

Dr. GIRISH TH Guy Name and Signature of Examiner

Signature of 11/6/19

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K.S. School of Engineering and Management No.15, Mallasandra, Off Kanakapura Road, Bangalore-560109

2018 - 19



Department of Mechanical Engineering

Certíficate

This is to certify that the Project Work entitled "Experimental Investigation on the Mechanical Properties of Friction Stir Welded Joints of Aluminium 5052 & Aluminium 7075 Alloys" is a bonafide work carried out by

AKASH G S	1KG14ME003
DARSHAN J	1KG14ME011
VIVEK N G	1KG14ME061
MOHAMMED BILAL	1KG16ME407

In partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19, it is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr. Harsha J Assistant Professor Dept. of Mechanical Engg.

,10/6/19

Mr. Balaji B Associate Professor & Head Dept, of Mechanical Enggd

Wolle

Dr. K Ramanarasimha Princ Barrol Refor Director K. KSSHOW of Engineering & Managen ng Bangalore-560 062

University Examiners:

Department Of Mechanical Engineering K.S. Group Of Institutions K.S. School Of Engineering & Management Bangalore-560 109

Name and Signature of Examiner-6/19

Dr. GIRISH TR 4

Name and Signature of Examiner-2

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K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Design and Fabrication of Drainage Metal Waste Collecting and Segregating System" is a bonafide work carried out by

Binod Mahato	1KG15ME012
Jai Chand	1KG15ME018
Amogha K	1KG15ME019
Rahul Ramanathan	1KG15ME035

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr. Praveen Kumar PHM Assistant Professor Dept. of Mechanical Engg.

Prof. Balaii B

Withelle Dr.K.Ramanarasimha

Principal/Director Professor & Head KSSEM, Bangalore Depr. Stoneolianical Engg. **Department Of Mechanical Engineering** K.S. Group Of Institutions K.S. School Of Engineering & Management Bangalore-560 109

Principal/Director K.S. School of Engineering & Manageme Bangalore-560 062

University Examiners: ame and Signature of Examiner-1 11/6/19

Dr. GIRISHM Name and Signature of Examiner-2

No.15, Mallasandra, Off Kanakapura Road, Bengaluru-560109 2018 - 19



Department of Mechanical Engineering

Certíficate

This is to certify that the Project Work entitled "Experimental Analysis of a Double Pipe Heat Exchanger with Perforated Disc Inserts" is a bonafide work carried out by

AKSHARA V GOWDA
ARFA NIHAL DELVI
SHREYAS B S
SREE PRAVEEN N

1KG15ME005 1KG15ME009 1KG15ME047 1KG15ME049

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgavi, during the year 2018-19, it is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Nethanth Ngg

Mr.Nishanth Nag HD Assistant Professor Dept. of Mechanical Engg. KSSEM

University Examiners:

amScanner

Dr.

: K. 10/6/19

Mr.Balaii B Associate Professor & Head Dept. of Mechanical Engg.

Dr. K Ramanarasimha Principal/Director KSSEM

SEM Principal/Director lessor & Head Department Of Mechanical EnglisSe School of Engineering & Management Bangalore-560 062 K.S. Group Of Institutions K.S. School Of Engineering & Management Bangalore-560 109 Dr. GIRISHTR Name and Signature of Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Computational Analysis on Array of Perforated fins" is a bonafide work carried out by

> CHETHAN KUMAR A NEERAJ S G RAHUL J **RAKSHITH P**

(1KG15ME013) (1KG15ME027) (1KG15ME034) (1KG15ME037)

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Signature of Guide Mr. Vinod A Assistant Professor KSSEM

amScanner

Signature of HOD Mr. Balaji B Associate Professor & HOD KSSEMsor & Head

K.S. Group Of Institutions

mitcelle

Signature of Principal/Director Dr. K Rama Narasimha Principal/Director KSSEM Principal / Director Department Of Mechanical Engineering. School of Engineering & Management Bangalore-560 062

University Examiners: K.S. School Of Engineering & Management Bangalore-560 109

Name and Signature of Exam

Dr. GIRISHTR Guy Name and Signature of Examiner

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Experimental Investigation on Performance of Double Pipe Heat Exchanger with Perforated Discs Insert using MWCNT and Al2O3 Nano Fluid" is a bonafide work carried out by

1KG15ME032
1KG15ME044
1KG15ME050
1KG16ME413

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Sontonh K

Name and Signature of Internal Guide

Scanned with amScanner

University Examiners:

Name and Signature of Head of the Department **Professor & Head**

Name and signature of Principal Dipriector Department Of Mechanical Engineering & Managani Bangalore-560 062

K.S. Group Of Institutions K.S. School Of Engineering & Management Bangalore-560 109

Name and Signature of Examiner-1 11/6/19

Dr. GIRLAN TY

Name and Signature of Examiner-2

No. 15, Mallasandra, Off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Design of HVAC System for Mechanical Block-KSSEM" is a bonafide work carried out by

Ravi Teja M	1KG14ME024
Lokesh T	1KG15ME020
Madhusudhan A	1KG15ME022
Ayyappa B	1KG16ME401

In partial fulfilment for the award of **Batchelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

10.6

Name and Signature of Internal Guide

University Examiners:

Head of the Departmen

Professor & Head Department Of Mechanica Engineering and Manager K.S. Group Of Institutions K.S. School Of Engineering & Management Bangalore-560 109

Name and Signature of Examiner-1

Name and Signature of Examiner-

Scanned with CamScanner

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Design and Fabrication of Rocker Bogie Mechanism" is a bonafide work carried out by

MANISH H	1KG15ME024
MUTTURAJ WALI	1KG15ME026
SANATH S	1KG15ME041
SANTHOSH KUMAR S	1KG15ME043

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Avilasha @

Name and Signature of Internal Guide

Head of the Department Professor & Head

Department Of Mechanical Engilise School of Engineering & Management K.S. Group Of Institutions Bangalore-560 062 K.S. School Of Engineering & Management Bangalore-560 109

Dr. BALAJI.R Name and Signature of Examiner-1

Name and Signature of Examin

University Examiners:

Scanned with CamScanner

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled "Experimental investigation of Nano based bio-oils as cutting fluids during turning operation of Aluminium 6061-T6 Alloy" is a bonafide work carried out by

Abishek S	1KG15ME003
Akash S N	1KG15ME004
Prajwal N	1KG15ME031
Uday Kumar K B	1KG15ME053

In partial fulfilment for the award of Batchelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

University Examiners:

Head of the Department

Principal/ Director

Professor & Head Dr. K. RAMA NAR Department Of Mechanical Engineering Principal/Director K.S. Group Of Institutions K S School of Engineering and Management K.S. School Of Engineering & Management Bengaluru - 560 109 Bangalore-560 109

Name and Signature of Examiner-1 11/6/19 CamScanner

Dr. GIRISHTh Juy

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Structural Safety Analysis of Power Axle and Wheel Assembly of Train Using Finite Element Analysis is a bonafide work carried out by

> ANIL KUMAR K 1KG15ME008 ARUN KUMAR P S 1KG15ME010 DEEPAK A 1KG16ME403 VENKATESH NAIK M 1KG16ME414

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Balaii F

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Associate Professor & HOD Dept. of Mechanical Engg. K.S.S.E.M.

University Examiners:

Scanned with CamScanner

11/6/19

Mr. Balaji B Dr. K. Ramanarasimha Principal Direct **Head of Department**

Dept. of Mechanical Engg. K.S.S.E.M. Director KS School of Engineering and Management Bengaluru - 560 109

ofessor & Head Department Of Mechanical Engineering K.S. Group Of Institutions K.S. School Of Engineering & Management

Dr. BALAJI Name and Signature of Examiner-1

Bangalore-560 109 Dr. GIRKH TA Name and Signature of Examiner

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Modelling and Analysis of Seat Belt Bracket Using Composite Materials" is a bonafide work carried out by

> MANOJ S VAMSHI KRISHNA S RAKESH R

1KG15ME025 1KG15ME056 1KG16ME410

In partial fulfilment for the award of Batchelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

SHIVANAN

Name and Signature of Internal Guide

Principal/ Director

Head of the

Professor & Head Department Of Mechanical EngineeringSchool of Engineering & Management K.S. Group Of Institutions K.S. School Of Engineering & Management Bangalore-560 109

Principal/Director Bangalore-560 062

University Examiners:

Name and Signature of Examiner-1

Name and Signature of Exami

Scanned with CamScanner

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Design and fabrication of coconut de-husking and chopping machine" is a bonafide work carried out by

1KG16ME404
1KG16ME408
1KG16ME411
1KG16ME415

In partial fulfilment for the award of Batchelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

10/06/19

Name and Signature of Internal Guide

University Examiners:

Witkelle 10/6/19.

Head of the Department Princ Professor & Head Department Of Mechanical Engineering K.S. Group Of Institutions K.S K.S. School Of Engineering & Management

Bangalore-560 109

Principal/Director

Principal / Director M.S. School of Engineering & Management Bangalore-560 062

M.BALAJI,B

CamScanner

Name and Signature of Examiner-1 12/6/19

Name and Signature of Examiner-2

Dr. GIRLSHITL

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Experimental Investigation on Performance Analysis of a VCR with Nano-Refrigerant" is a bonafide work carried out by

NIKHILESH R P	1KG15ME028
PRAJWAL K	1KG15ME030
SENTHIL KUMAR A B	1KG15ME045
TAMIL SELVAN A	1KG15ME051

are the bonafide students of **Department of Mechanical Engineering** in partial fulfilment for the award of **Bachelor of Engineering** in Visvesvaraya Technological University, Belagavi, during the year 2018-19. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement in respect of project work prescribed for the degree.

Mr. Prabhu K S Assistant Professor Dept. of Mechanical Engg. K.S.S.E.M.

University Examiners:

Mr. Balaji B Head of Departmentineering Dr. J Head of Departmentineering Print Comparison of Marcal Angenerik. Departmest. K.S. Group Of Engineering & Manar Dr. K.S. Departmest. K.S. School Of Engineering & Manar Dr. K.S. Bangalore-560 109 K.S. School Of Engineering K.S. School

Dr. K Ramanarasimha Principal / Director

K S School of Engineering and Management Bengaluru - 560 109

12/6/19 Name and Signature of Examin

Dr. hiRISH. T.R.

Name and Signature of Examiner-2

Scanned with CamScanner K.S. School of Engineering and Management No.15, Mallasandra, Off Kanakapura Road, Bangalore-560109 2018 - 19



Department of Mechanical Engineering

Certífícate

This is to certify that the Project Work entitled "Experimental Investigation on the Mechanical Properties of Friction Stir Welded Joints of Aluminium 6061 & Aluminium 7075 Alloys" is a bonafide work carried out by

PUNITH M SUDHEER P

1KG14ME043 1KG14ME054

In partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2018-19, it is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr. Ganesh Arjun Bhargav Assistant Professor Dept. of Mechanical Engg.

· K, 10/0/19

Dr. Balaji B Professor & Head Dept. of Mechanical Engg. Professor & Head

witcelle

Dr. K Ramanarasimha PrindpaloingetoDirector K.S. School f Engineering & Management Bangalore-560 062

University Examiners: K.S. School

Department Of Mechanical Engineering K.S. Group Of Institutions K.S. School Of Engineering & Management Bangalore-550 109

Dr. BALAJI.B. (July) Name and Signature of Examiner-1 1/6/19

Dr. hikish. T.

Name and Signature of Examiner-2

Scanned with CamScanner



21 Feb 2019

CERTIFICATE

This is to certify that Mr. ANIL H S (USN-1KG17MBA02) Student of K.S. School of Engineering and Management Bangalore, has successfully completed his "Project Work" in our organization,

NEO LABELS INC located at # 57, 8th Main, Yelachenahalli, Bangalore. From 26th Dec 2018 to 16th Feb 2019

he took keen interest in the work assigned to his. his conduct and behavior was found good.

we wish his the very best in all his future endeavors.

Neo Labels Inc

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Bangalore

57, 8th Main, Nanjappa Layout, Kanakapura Main Road, Yelachenahalli, Bangalore- 560 062. Ph: 080-2686 0616 Mob : 99007 49879 E-mail : gneolabelsinc@gmail.com website: www.neolabelsinc.com

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: + 91 - 80 - 26320372 26320373, 26320432 28436229, 28436230 : + 91 - 80 - 26321204 : mail@promacindia.com Visit us at : www.promacindia.com : U24210KA1972PLC002255

Registered Office & Factory : Off Kanakapura Road Alahalli, Anjanapura Post, Bangalore - 560 108 India.

Ref.: HR/Internship/238 /2018-19

February 08, 2019

Phone

Fax

E-mail

CIN No

TO WHOMSOEVER IT MAY CONCERN

This to certify that Ms.Anusha L (USN No.1KG17MBA03) from K.S.School of Engineering and Management, Bengaluru, who is pursuing her IV Semester MBA, had undergone Internship between 31st December, 2018 and 8th February, 2019 in our HRD Department and completed the same.

During her internship, she studied the whole concept of HR under the guidance of the H.O.D.

During her stay with us, we found her a very good and fast learner and enthusiastic in knowing more about the practicality concerning her subjects.

We wish her Good Luck,

FOR PROMAC ENGINEERING INDUSTRIES LTD.

K-M.S. Shiwka - Kymar

Sr. Manager - HRD

Turnkey Projects : Cement Plants, Bulk Material Handling Systems for Power Plants & Other Process Plants

ร้างอุรีรุ่นาง BENGALURU METROPOLITAN TRANSPORT CORPORATION HUMAN RESOURCE DEVELOPMENT DEPARTMENT

ಬೆಂಗಳೂರು ಮಹಾನಗರ ಸಾರಿಗೆ ಸಂಸ್ಥೆ

No: BMTC: CO: HRD: 014 / 2018-19

Place: Bengaluru

Date: 02/04/2019



<u>CERTIFICATE</u>

This is to certify that Mr. Basavesha D (Reg. No. 1KG17MBA04) student of MBA, K. S. School of Engineering & Management, Bengaluru has successfully completed the project work on the title "A study on Financial Statement Analysis at BMTC" from 14/01/2019 to 25/02/2019, at Bengaluru Metropolitan Transport Corporation.

WW

Offices.

Chief Personnel Manager (HRD)

B.M.T.C. Head of the Department n Resource Development Department aluru Metropolitan transport Corporation chanthinggar, Bengaluru-22.

The Corporation wishes him a bright future.

Propack Shreiner Pvt. Ltd.



Date:16-2-2019

TO WHOM SO EVER IT MAY CONCERN

Here by certifying Miss. CHANDRIKA S bearing USN No 1KG17MBA05 has been completed project study "A study on assets and liabilities management at PROPACK SHREINER PVT. LTD." In our organization from 26-12-2018 to 16 -2 - 2019 During the above period her performance and conduct were good.





Sy. No.21/5, Thalgatpura, Kanakapura Main Road, Near Jnana Sweekar School, Bangalore - 560062. INDIA Ph.: +91 80 2842 5535, 2842 5636 / Fax: +91 80 2842 5637 / Email : accounts@propack.co.in รังการเรา BENGALURU METROPOLITAN TRANSPORT CORPORATION HUMAN RESOURCE DEVELOPMENT DEPARTMENT

ಬೆಂಗಳೂರು ಮಹಾನಗರ ಸಾರಿಗೆ ಸಂಸ್ಥೆ

No: BMTC: CO: HRD: 06 / 2018-19

Date: 0 /04/2019



CERTIFICATE

This is to certify that Ms. Dharini Y (Reg. No. 1KG17MBA08) student of MBA, K. S. School of Engineering & Management, Bengaluru has successfully completed the project work on the title "A study on Assets and Liabilities Management at BMTC" from 07/01/2019 to 16/02/2019, at Bengaluru Metropolitan Transport Corporation.

The Corporation wishes her a bright future.

Place: Bengaluru

Chief Personnel Manager (HRD) B.M.T.C.

Head of the Department Human Resource Development Department Bengaluru Metropolitan Transport Corporation Central Offices, Shanthinagar, Bengaturu-27.

FUTURE RETAIL

CERTIFICATE

Date: 06.04.2019

This is to certify that Ms Greeshma T K student of K.S. School of Engineering and Management, Bangalore. Bearing USN **1KG17MBA09** has completed the project in HR Department at BIG BAZAAR, Bengaluru under the project title. "EMPLOYEE ABSENTEEISM". During the period 26th Dec 2018 to 16th Feb 2019.

This certificate is issued to produce before "K.S. School of Engineering and management, Bangalore" for the completion of internship of project at BIG BAZZAR, Bengaluru. She has successfully completed her project in our organization.

During this period, we found her to be sincere and hard working. We wish her all the best in future endeavors.

For BIG BAZZAR.

A. Nur Naveen

HR Manager.

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Future Rotall Limited (Formerly known as Bharti Retail Limited) Zonal Office - fat & 2nd Floor, Pasedona 16/1, 10th Main, Ashoka Pillar Road, Jayenager 1st Block, Bangelore 500 011. India Pieto 50 41524151 - whw.futuraretall.co.in Registeraid Office - Knowledge House, Shyamoegar, Off JV Enk Road, Joeshwari East, Mumbai 400 000, P +91 22 6544 2200 F +91 22 6544 2201 PARSONS NUTRITIONALS PVT LTD

Plot No.319C, 320 A & B 321, 2nd Phase, Harohalli Indl Area, Kanakapura Tq., Ramanagar Dist.- 562112, Karnataka, e-mail : hrm@parsonsnutritionals.in web : www.mannventures.com CIN : U65311DL2002PTC115025



Date: 02-04-2019

CERTIFICATE

This is to certify that **Ms. Harshitha D**, student of K.S. School and Management bearing USN: 1KG17MBA10 in MBA in the branch of Human Resources and Finance of Visvesvaraya Technological University Belagavi, has completed her project from 26.12.2018 to 16.02.2019.

We found her extremely hard working. She was very much interested to learn the functions of our divisions and followed up the procedures correctly. Also followed our company rules and regulations in her project period.

For Parsons Nutritionals Pvt. Ltd.,

Shashidhara GK Senior Manager-HR, IR and Admin

REGD OFFICE : C-48, KAILASH APARTMENTS, KAILASH COLONY, NEW DELHI-48

REGD OFFICE : C-48, KAILASH APARTMENTS, KAILASH COLONY, NEW DELHI-48

Senior Manager-HR, IR and Admin



CIN: U31409KA2007PTC042474

ELMEASURE INDIA PRIVATE LIMITED Plot no: 47-P, Hardware Park, KIADB, Huvina Bengaluru- 562149 Karnataka India

This is to certify that Ms.KAVYA K of 4th Semester of Master of Business Management (MBA) K S School of Engineering and Management Bangalore university bearing university registration number (URN) 1KG17MBA11 has completed the project **"A STUDY ON EMPLOYEE MOTIVATION"** at Elmeasure India pvt Itd on 15thFebruary 2019 (15/02/2019)

We sincerely appreciate her effort and dedication towards the company and during the period of completion of the project, we found her conduct to be good and satisfactory.

We wish her Good Luck in all future endeavours.

For Elmeasure India Pvt Ltd.

fingers.

Srinivas Bramha Dy. General Manager Hr and Admin

Reg Office: #755, 4th Phase 707 Yelahanka New Town, Bangalore 560 064 INDIA

www.elmeasure.com



विजया बैंक (भारत सरकार का उपक्रम) VIJAYA BANK (A Govt. of India Undertaking) प्रधान कार्यालय Head Office 41/2, एम जी रोड M G Road बैंगलोर Bangalore – 560 001

शाखा	: केंगेरी
Branch	: KENGERI
ई – मेल	
Email	: ban.kengeri1443@VIJAYABANK.co.in
वेब Web	: www.vijayabank.com
फ़ोन Phone	: 080-28486655
फैक्स Fax	

TO WHOM SOEVER IT MAY CONCERN

This is to certify that Mr. MAHESH V (Register no: 1KG17MBA12) student of KS School of Engineering and Management, Bangalore has completed the project report: COMPARATIVE ANALYSIS OF VIJAYA BANK AND SBI AT VIJAYA BANK, KENGERI Branch. During the period of 25-12-2018 to 16-02-2019. During dissertation we have found him to be diligent and honest in the work.

Place: Bangalore

Date: 25-02-2019

कृते विजया बेंक/Fo VDAYA BANK वरिष्ठ शाखा प्रवधक/S केमेरी शाखा, वेन KENGERI BRANCH, BA Manager



KARNATAKA STATE FINANCIAL CORPORATION KSFC Bhavan No: 1/1 Thimmaiah Road Bangalore-560051 Phone: 22263355 www.ksfc.in

Ref: F006/PR/2049/2019

DATE: 03/04 / 2019

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.Manjunath bearing Reg.No: 1KG17MBA13 student of M.B.A. IV Semester, studying at K.S.School of Engineering and Management has successfully completed the Project on "A Study on Assets and Liabilities Management" in our Organization from 26-12-2018 to 16-02-2019.

During his stay in our Organization his zeal and Enthusiasm was appreciable.

He deserves all Encouragement.

We wish him all the best for his future.

Inancial corporation al Manager Bengaluru-560051



Date: 3.4.2019

CERTIFICATE

TO WHOMSOVER IT MAY CONCERN

This is to certify that MS. PADMAJA NELLORE (USN NO. 1KG17MBA15) from K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE has successfully completed her Project Training starting from 31.12.2018 to 14.2.2019 the project titled "A STUDY ON TRAINING METHODS, BANGALORE".

She has exhibited a high level of enthusiasm and commitment in her work.

On completion of the project, she has submitted a written report of the above studies.

We wish all the best for her future Endeavour's.

Regards,

1

Her. Y. Belue

Hemalatha Y Belur Manager - HR Karnataka Hybrid Micro Devices Ltd. Bangalore.



AEROSPACE | DEFENCE | AUTOMOTIVE



No.103, 4th Cross, Electronics City, Phase-I, Bengaluru -560 100, Karnataka, India. Tel : +91 80 2852 1506 / 1507 / 1456 | Fax : +91 80 2852 0209 | E-mail : info@khmdl.com | www.khmdl.com



Certificate

To whomsoever it may concern

This is to certify that Mr Ottikunta Yeswanth, Reg. No:- 1KG17MBA16, M.B.A(Finance) student of the K.S. School of Engineering and Management, Bangalore was placed with us for training from 27/12/2018 to 17/02/2019. This training has been organized as part of his study curriculum.

During the period, he had done an internship with the title of **"A Study on Ratio Analysis in Amara Raja Group of Companies"** under the guidance of Mr Chandra sekar, Asst. Manager, Department of finance at Amara Raja Group of Companies at our Head Office, Tirupati.

Mr Ottikunta Yeswanth has shown his keen interest while doing the internship. We found his enthusiastic, diligent and creative. We wish him a bright future.

ForAmara Raja Group of Companies,

- Jolin Konor,

K.Nalini Kumar Asst General Manager – Human Resources

Date- 18/03/2019

An Amara raja Group of company Registered office & Works: Karakanbadi-517520 Tirupati, Andhra Pradesh, India. Tel o. +91 877 2264000, Fax no. +91 877 2285600. Corporate Operations Office: Terminal A 1-18/1/AMR/NR, Nanakramguda, Gachibowli, Hyderabad-500032, India. Tel no. +91 40 23139000, Fax no. +91 40 23139001, E-mail: mangal@amararaja.co.in Website: www.mangalltd.com, Corporate ID no. U15122AP1990PLC011932.





Ref: GRID / INTERNSHIP/2019

18th February, 2019

TO WHOMSOEVER IT MAY CONCERN

CERTIFICATE

This is to certify that **Ms. Pavani** .V. Reg. No. 1KG17MBA17, M.B.A student of K S School of Engineering & Management, has done **INTERNSHIP** in " A Study on Recruitment & Selection " at "GRID R & D" BANGALORE from 26th Dec 2018 to 16th Feb 2019.

We found her punctual, agile and efficient.

We wish her prosperity in the posterity.

For GRID R & D

Vani S.P Director of Administration



Ref: SKPL: 06/2019

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Praveena K B**–USN NO : 1KG17MBA19, Student of MBA studying at K S School of Engineering and Management, Bangalore has undergone the project training work, has completed project title as "A Study on Receivable **Management with Special Reference to Stove Kraft Limited**" provided at STOVE KRAFT LTD with regards to job satisfaction from 26th December 2018 to 16th February 2019, In our company.

We wish to express our appreciation for his excellent work done and wish him all the success in his new endeavor. This certificate is issued purely of Academic purpose only.

FOR STOVE KRAFT LTD Authorised Signator

Place : Harohalli Date : 01.04.2019



#81/1 Medamaranahalli Village, Harohalli Hobli, Harohalli Industrial Area, Kanakapura Taluk, Ramanagara District, Bengaluru, India- 562 112

Stove Kraft Limited

Kanakapura Taluk, Ramanagara District, Bengaluru, India- 562 112 �+91 80 28016222 | ⊖ +91 80 2801 6209 | ⊠ info@stovekraft.com

CIN: U29301KA1999PLC025387

stovekraft.com

DECLARATION

I, Roopa MN, hereby declare that the Project report entitled "A Study on working capital management " at OJUS Power and Technologies Private Ltd prepared by me under the guidance of Prof. Maheshwari ,Asst. Professor M.B.A. Department, K.S. School of Engineering and Management and external assistance by Mr. ARUN, Accounts manager, OJUS Power and Technologies Private Ltd.

I also declare that this Project work is towards the partial fulfilment of the university regulations for the degree of Master of Business Administration by Visvesvaraya Technological University, Belgaum.

I have undergone a project for a period of Six weeks. I further declare that this project is based on the original study undertaken by me and has not been submitted for the award of any degree/ diploma from any other University/ Institution.

Place: Bangalore

Date: Mar 27th 2019

Signature of the student

(Roopa MN)

PAGARIYA FOOD PRODUCTS (P). LTD. An ISO 22000:2005 Certified Company Corporate office: Pragathi Arcade, No. 243, 2nd Floor, 3rd Main Road, Chamrajpet, Bangalore, Karnataka –560018. P : 080-26606204/205 CIN No: U15300KA2009PTC051190



DATE : 27/02/2019

TO WHOM SO EVER IT MAY CONCERN

This is certify that Mr. SRINIVAS. R (USN-1KG17MBA21), student of K. S. School of Engineering & Management Bangalore, had undertaken an project at our organization. From 26th December 2018 to 16th February 2019. He has completed the project report and organization study successfully.

During the project we found him to be diligent and hardworking

We wish him all the best in his future endeavors.

Best Regards

For PAGARIYA FOOD PRODUCTS PVT LTD



Factory: Unit Plot No # 302 A, Phase -2, KIADB Industrial Estate, Harohalli Taluka Kanakapura, Dist Ramanagara, Pin Code: 562 112, Karnataka State, India.



Manufacturers & Exporters of Leather & Leather Garments

CERTIFICATE

This is to certify that Ms.SUJATHA K.S.(USN NO.1KG17MBA22)MBA student of K.S.School of Engineering and Management Bangalore, has successfully completed the "project work A study on working capital management" in Namaste Exports Ltd, Chamarajpet Bangalore, Under valuable guidance of Krishna Bhat Finance Manager. From 01.01.2019 to 11.02.2019. Hers performance and conduct during the project work was good.

We wish her all the best in her future endeavors.

Date-16.02.2019

Place-Bangalore

Thanking you Yours faithfully

For Namaste Exports Ltriften

Authonised Signatory

21/2, Vittalnagar, Chamarajpet, Bangalore - 560 018, INDIA. Tel. : (080)26747993, 26740774, Fax : (91) 080-26747776 E-mail : info@namasteexports.net



CERTIFICATE

This is to certify that Ms. Sukanya H S, bearing reg no 1KG17MBA23, Student of second year MBA from K.S. School of engineering and management, Bangalore – 560062 has undergone project in the area "A STUDY ON EFFECTIVENESS OF INVENTORY MANAGEMENT SYSTEM AT NATURAL REMEDIES PRIVATE LIMITED" during the period from 07-01-2019 TO 16-02-2019.

The project has been completed successfully to our satisfaction and her conduct during the tenure of the project was good and we wish all the best for her future.

FOR Natural Remedies Private Ltd

ISSI CALLY UR Authorised Signatory

Natural Remedies Private Limited Regd. Office & Factory CIN No.: U24232KA1998PTC023573

Tel: 91 80 4020 9999 / 8 /7, 2783 2265, Fax: 91 80 40209817, Email: finance@naturalremedy.com, Web: www.naturalremedy.com

5 B. Veensaandra industrial Area. Hosur Road. Electronic City Post. Bangalore 560 100. INDIA 7el: 91 80 4020 9999 / 8 /7, 2783 2265, Fax: 91 80 40209817, Email: finance@naturalremedy.com, Web: www.naturalremedy.com

Regd. Office & Factory

Natural Remedies Private Limited



KARNATAKA MILK FEDERATIOM

HASSAN

CERTIFICATE

This is to certify that SUMA M V (1KG17MBA24) a student pursuing master of business administration from K.S.SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE has successfully completed her project report at KMF LTD HASSAN. During the period from 02-01-2019 to 15-02-2019, as a part of her curriculum and has submitted a report titled "A STUDY ON INVENTORY MANAGEMENT AT KMF LTD"

During the above period, we have found her to be diligent and honest in her work and we wish her success in all her future endeavors.

Date:-16-03-2019

Place: - HASSAN

For KMF LTD

Authorized signatur

1



No 27, Industrial shed no 1, Belagola Food Industrial area, KRS Road, Mysore-570016 Ph No: 9964893190 Email:electromechs10@gmail.com

<u>CERTIFICATE</u>

This is to certify that Miss. Sushma.n(1KG17MBA25) student Master of Business Management has completed project work on "A Study on Capital Budgeting & its Techniques in Electro Mechs" Mysore from 26/12/2018 to 16/02/2019.

She has exhibited punctuality and diligence during the training period.



Miss. Sushma.N Student of MBA., K.S. Group Institutions K. S. School of Engineering & Management Bengaluru - 5600062 Regd. No. : DYR 443 ESTD. : 1966



Phone: 2315 1204 Telefax: 2315 2073

THE RAJAJINAGAR CO-OPERATIVE BANK LIMITED

ದಿ ರಾಜಾಜಿನಗರ ಕೋ–ಆಪರೇಟಿವ್ ಬ್ಯಾಂಕ್ ಲಿಮಿಟೆಡ್

741, 3RD BLOCK, RAJAJINAGAR, BENGALURU - 560 010.

RCB/ 14 //2019-20

Date: 4-4-2019

CERTIFICATE

This is to certify that Mr.Vasantha.R. bearing Reg.No.1KG17MBA26 student of M.B.A. IV Semester, studying at K.S. Scholl of Engineering and Management has successfully completed the project on "A Study on Loans and advances" in our Bank from 26-12-2018 to 16-2-2019.

During his stay in our organization his zeal and enthusiasm was appreciable.

He deserves all encouragement.

We wish him all the best for his future.

For The Rajajinagar Co-operative Bank Ltd.,





TO WHOM IT MAY CONCERN

This is certify that **Mr. Yogesh J R.** Register NO. **1KG17MBA27** student of **MBA** in **KS Group of institute** has successfully completed his project in finance specialization in kempegowda credit co-operative society ltd from the period of 26th December 2018 to 16th February 2019.

During the period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish his every success in life

ಪರವಾಗಿ ಕೆಂಪಲ್ ಇದ ಕ್ರಡಿಟ್ ಕೋ-ಆಪರೆಣುವ್ ಸೂಪ್ರಟ



Regd. Off : H.No. 1-88/1/102, 102, Shanti Vanam, Kavuri Hills Extn., Madhapur, Hyderabad-500 081. Ph: 040-65133344, Fax: 040-40183344. Email : koppalgreen@rediffmail.com, koppalgreen@gmail.com

Date: 17/02/2019

INTERNSHIP COMPLETION CERTIFICATE

This is to Certify that Mr Yuvashankar Manne, bearing Reg No:1KG17MBA28 student of Second year MBA from K.S.School of Engineering and Management, Benaglore has completed 6 Weeks (3rd Jan 2019 to 16th Feb 2019) internship in our organization.

During internship period he has conducted a project Title "A Study on Cost Control and Cost Control techniques" at Koppal Green Power Ltd.

We wish him very best for his future endeavours.

For Koppal Green Power Ltd

Surexy K Suresh PR Manager



POWER PLANT : Opp. 110KV KPTCL Substation R.G. Road, KARATAGI, Gangavathi Tq, Koppal District KARNATAKA - 583 229, Ph : 08533 - 274663, 08533 - 274674, Fax : 08533 - 275286. CIN No : U40109TG2000PLC034520

-

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Effect of Size of the Aggregate on Fresh and Hardened Properties of Self Compacting Concrete" is a bonafide work carried out by

RAKSHITH P

1KG14CV034

SUHAS V NAIDU 1KG14CV048

VAIDHYANATH N S 1KG14CV053

VENKATESHA

1KG14CV057

in partial fulfillment for the award of "Bachelor Of Engineering In Civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

B.Marth 257

Name and Signature of Internal Guide

Inflette

Head of the Department

Principal/ Director

Mr. Thejas C M

Mr. Manjunath B

Assistant Professor Dept. of Civil Engg. KSSEM, Bengaluru

University Examiners: - 14/6/18

Name and Signature of Examiner-1

Dr. Vijayalakshmi akella

Professor and Head Dept.of Civil Engg KSSEM, Bengaluru Dr. S N Sridhara

Principal KSSEM, Bengaluru

p. S. RAMESH

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Feasibility study of Geopolymeraggregate in PSC sleeperis a bonafide work carried out by

BharathGowda D	1KG15CV400
Charan Kumar V	1KG15CV401
Naveen Kumar M H	1KG15CV404
Vinodh Kumar S	1KG15CV408

in partial fulfilment for the award of **Batchelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

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Head of the Department

Professor & Head K Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Cangalore-560 062

Principa

K. S. School Of Engineering & Management BENGALURU=:560 109.

University Examiners:

14 14/6/18-

g P.S. Ramest

Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certíficate

This is to certify that the project work entitled ANALYSIS AND DESIGN OF MULTI-STOREY PARKING STRUCTURE BY USE OF COMMERCIAL SOFTWARE is a bonafide work carried out by

HARSHA C S	1KG14CV014
JEEVAN KUMAR L N	1KG14CV018
MEGHAN MAYUR	1KG14CV025
SHARATH MAYYA V	1KG14CV042

In partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide 1

M Pr

Name and Signature of Internal Guide 2

whelle

Head of the Department

K.S. Group of Institutions K.S. School of Engineering & Management

Sanyalore-560 002

SRIDHARA Professor & Head Principal/Director Dept. of Civil Engineering K. S. School Of Engineering 5 Mana-Principal/Director BENGALURU::560 ThE.

University Examiners:

Vijayalatshii Akelle.

Name and Signature of Examiner-1

Rarad CSMV BumBronay Name and Signature of Examiner-2 B.6

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **"ANALYSIS AND DESIGN OF MULTI-STOREYED RESIDENTIAL BUILDING USING COMMERCIAL SOFTWARE"** is a bonafide work carried out by

> RAMYA.D.N SUMA.S.MUDDI VANI.G.C

1KG14CV035 1KG14CV049 1KG14CV054

in partial fulfillment for the award of **"Bachelor of Engineering"** of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide Mr.Veerendra Kumar.M Assistant Professor Dept. of Civil Engg. KSSEM, Bengaluru

University Examiners:

Name and Signature of Examiner-I

WKelle

Head of the Department

Dr. Vijayalakshmi Akella Professor and Head Dept. of Civil Engg. KSSEM, Bengaluru Professor & Head Dept. of Civil Engineering

Principal/ Director

Dr. S N Sridhara Principal KSSEM, Bengaluru

Professor & Head Dr. S. N. SRIDHARA Dept. of Civil Engineering Principal/Director K.S. Group of Institutions K. S. School Of Engineering & Management K.S. School of Engineering & Management BENGALURU=560 109.

Name and Signature of Examiner-2

Bangalore-560 062

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Experimental Study on Mechanical Properties of Ultra High Performance Concrete" is a bonafide work carried out by

> **JAYANTH PATEL H.H** NIRAJ. C **RAAHUL JAYA SAI. G.B** PREETHAM .S

1KG13CV017 1KG13CV035 1KG13CV041 1KG14CV033

in partial fulfilment for the award of "B.E in Civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Frallaut

Name and Signature of Internal Guide

Mr. Prashanth M

Mr. Manjunath B

Assistant Professor Dept. of Civil Engg. KSSEM, Bengaluru millelle

Head of the Department Professor & Head Dept. of Civil Engineering

Dr. VijgyglakshmiAkellas

Bangalore-560 062.

Professor and Head Dept. of Civil Engg. KSSEM, Bengaluru

Principal/ Director

Dr. S N Sridhara K.S. School of Engineering & Managemen Dr. S. N. SRIDHARA Principal/Director K. S. School Of Engineering & Management KSSEM, Bengalunu 109

University Examiners:

Dr. APEKAR VIDAY (72, 14/6/19

Name and Signature of Examiner-1

Koupagam Ramesh. Kog - 14/6/19

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Planning, Cost Estimation and Scheduling of Hostel Building Using Microsoft Project is a bonafide work carried out by

Ridhisha M Dev	1KG14CV036
Sunitha R	1KG14CV050
Vivek K S	1KG14CV058
Yashaswini G R	1KG14CV059

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mrs.Kavya M

As 10

Name and Signature of Internal Guide

University Examiners:

modelle 13/6/14

Name and Signature of Examiner-1

Dr. Vijayalakshmi Akella

Dr. S N Sridhara

In Well.

Head of the Department Professor & Head

Dept. of Civil Engineering K.S. Group of Institutions ¥ \$. School of Engineering & Management

Bungalore-560.062

Principal/

Dr. Shinktos RIDHARA Principal/Director K. S. School Of Engineering & Management BENGALURU=:560 109.

Rasad CSMV (SMMP. aug. c. 18

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certíficate

This is to certify that the project work entitled "Experimental studies on desiccation potential of compacted soils for landfill liners" is a bonafide work carried out by

> DARSHAN C HARSHITH N NIKHIL S SUHAS K

1KG14CV010 1KG14CV015 1KG14CV029 1KG14CV047

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

AREKAL VIJAY

Name and Signature of Internal Guide

University Examiners:

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Name and Signature of Examiner-1

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Head of the Department

Professor & Head

Dept. of Civil Engineering

K.S. Group of Institutions

Bangalore-560062

Principal/ Director

Dr. S. N. SRIDHARA Principal Director K.S. School of Engineering & Management K. S. School Of Engineering & Manage BENGALURU-560 10

Rasad CSNW Componer 3.618

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Environmental Impact Assessment for Metro construction in Kanakapura road Phase-II is a bonafide work carried out 64

Malavika D Sindye	1KG14CV024
Mokshith Jeevan J S	1KG14CV026
Nishanth H S	1KG14CV030
Raghavendra C R	1KG15CV406

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Sailo. R.Y

Name and Signature of Savitha B G

Vythat.

Name and Signature of Dr. Vyshali

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K.S. School of Engineering & Management Bangalore-560 062

Head of the Professor 8 Head

Principal/ Dr. StreeforSRIDHARA Principal/Director

Dept. of Civil Engineering School Bt Engineering & Managem: K.S. Group of Institutions GENGALURU=560 109.

p.S. RAMESH

Name and Signature of Examiner-2

University Examiners:

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Name and Signature of Examiner-1

Deleverka lamie. M

n

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Experimental Investigation on the Mechanical Properties of Concrete by Partial Replacement of Cement with Arecanut Husk Ash is a bonafide work carried out by

Alex Peter Njau1KG14CV006Irfan Lone1KG14CV017Syed Abubakker Siddiq1KG14CV052Varun N1KG12CV048

in partial fulfilment for the award of **Bachelor of Engineering** in **Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2017-2018. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

PUNEE TH.T e and Signature of Guide

Wille

Principal/Director

Head of the Department

University Examiners:

14 6 18-

Name and Signature of Examiner-1

C.RAMBSH

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **Design and modelling of Sewage** treatment plant at K.S.S.E.Mis a Bonafide Work carried out by

> A YASWANTH MADHUSUDHAN N LAKSHMI PRIYA KC SAHANA S

1KG13CV002 1KG13CV027 1KG14CV023 1KG14CV038

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and signature of

Name and signature of Internal Guide

molelle

Head of the Department Professor & Head Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangaiore-560 062.

Principal/Director Dr. S. N. SRIDHARA Principal/Director K. S. School Of Engineering 6 Management BENGALURU==560 109.

Name and Signature of Examiner-1

Rasod CSMV / SMBar 12. 1. 18 Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **Experimental Studies on the Effects of Shape of Footing on Bearing Capacity of Sand** is a Bonafide Work carried out by

> Deepak Naidu V Hemanth S P Dileep Chowdary S Uday Prakash

1KG14CV011 1KG14CV016 1KG14CV031 1KG14CV037

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It us certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

AREKAL VIJAY

Name and signature of Internal Guide Head of the Department

Professor & Head

Dept. of Civil Engineering K.S. Group of Institutions

K.S. School of Engineering & Managemery K. S. School DI Engineering & Ha

Principal

Directo

BENGALURU=560

Dr. S. N. SRIDHARA Principal'O'rector

Bangalore-560 062

Name and Signature of Examiner-1

Verelicky Kumol. M

No. 15. Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Experimental and prediction ofproperties of SCC containing fly ash aggregate" is a bonafide work carried out byGAGAN BIKG16CSE06

in partial fulfillment for the award of "MASTER OF TECHNOLOGY" of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of

Internal Guide

Mr. NAVEENA M P Mr. C M THEJAS Assistant Professor Dept. of Civil Engg. KSSEM, Bengaluru. Wheele

Professor & Head DepHcadi of Ehgin@epagtment K.S. Group of Institutions K.S. School of Engineering & Management DeanVaira yallakstemi Akella

> Professor and Head Dept. of Civil Engg. KSSEM, Bengaluru.

Principal/Director K. S. Schunl Of Engineering & Manager BENCS NSFidher30 109.

> Principal KSSEM, Bengaluru

University Examiners:

Name and Signature of Examiner-1

2-7 18/a/1)

Name and Signature of Examiner-2

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No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **"Analytical and Experimental** Studies on Single mantapa and Closed mantapa of Amruteshwara Temple" is a bonafide work carried out by

KEERTHI PRASAD M 1KG16CSE08

in partial fulfillment for the award of "MASTER OF TECHNOLOGY" of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of

Internal Guide

Dr. Vijayałakshmi Akella Professor and Head Dept. of Civil Engg. KSSEM, Bengaluru.

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Head of the Department Professor & Head Dept. of Civil Engineering KDF. Gverja yaliakshim A kella K.S. Schoplof Engine and Head Dept. of Civil Engg. KSSEM, Bengaluru.

Principal/ Director Dr. S. N. SRIDHARA Principal/Director S. School DI Egy Paring Ballanegeme BENGAL HIR Hip 50 109.

KSSEM, Bengaluru

University Examiners:

hisvalle

Dr Ravindra PM Name and Signature of Examiner-

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **"Feasibility Studies on Lead Rubber Bearing as a Base Isolation Using ETABS"** is a bonafide work carried out by

ARUN KUMAR H

1KG16CSE02

in partial fulfilment for the award of "MASTER OF TECHNOLOGY" of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide PUNEETH T NAVEENA M P Assistant Professor Dept. of Civil Engg. KSSEM, Bengaluru.

University Examiners:

PUNEETH

Name and Signature of Examiner-1

intelle

Head of the Department

Dr. Vijayalakshmi Akella

Professor and Head

Dept. of Civil Engg.

Principal/ Director

Dr. S N Sridhara Principal KSSEM, Bengaluru Dr. S. N. SRIDHARA

KSSEM&Rengaluru Principal/Oiractor Dept. of Civil Engineering K. S. School Of Engineering & Management K.S. Group of Institutions K.S. School of Engineering & Management BENGALURU=560 109. Bangalore-560 062. Dr. Ravindra P

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Load-Deflection Behaviour of Concrete-Filled Steel Tube Columns under Axial Loading" is a bonafide work carried

MOHAMMED ZUNED

1KG16CSE11

in partial fulfilment for the award of Master of Technology in Structural Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Wille

Name and Signature of Internal Guide Dr. Vijayalakshmi Akella Professor and Head Dept. of Civil Engg. KSSEM, Bengaluru

Welle

Head of the Department Dr. Vijayalakshmi Akella K.S. Group and String & Manager School Of Engineering & Bencario S Bangalore-560062

Principal/ Director Dr. S N Shridhara Drprincipal SRIDHARK School Of Engineering & Manag BENGALURU: 560 10\$

University Examiners:

Welle 31.10.18 36 Vyayalalshin Akelle.

Dr. S.V. RAJEEVA

Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mailasandea, off Kanakapura Rosd, Bengahru-560109



Department of Computer Science & Engineering

Certificate

This is to certify that the project work entitled 'Development and Implementation of Smart Craale using LoT is a nonafide work carried out by

> 1KG14C5074 Navcen R. Pooja NK 1KG14C5084 Rachang M N 1KG14CS087 Sanjama M Nadig 1KG14CS100

in partial fulfilment for the award of Bachalor of Engineering in Computer Science. & Ingineering of Visvervaraya Technological University, Unlagerri, during the your unread it is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis sainfus the avadennic requirement in respect of proper work preserved for the degree

Viginite &

DEELSUNGESTOR

Lafa Vistor Hickory

12t M.T.Gopalakrishna Dr. M. P. Cophilic Lafuna a a Post Protester while the ESSchool of Engineering & Managament Bangalury-568109. University Examiners:

anhavendra. Dr S.N.Sncharn Principal-Lizea RIDHARA Principal/Director < 7. Solual El Engineering S Managament BENGALURUSSED 109

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Design and implementation of Robot assisted Arduino based object recognition and sorting is a bonafide work carried out by

Mahesh R	1KG13EC048
Keerthana M	1KG14EC039
Sneha S	1KG14EC084
Nayana R	1KG14EC103

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum,

during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the

academic requirement in respect of project work prescribed for the degree.

BP-02-518818

Name and signature of Guide

Head of the Department Prefesser & Head Dept. of Electronics & Communication Engineering X. S. School Of Engineering & Manager K.S. Group of Institutions K.S. School of Engineering & Management Bangalere-560062

1 1 201

Principal/Director Dr. S. N. SRIDHARA Principal/Director BENGALURU::560 105

University Examiners:

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Design and Optimization of IP based Communication Network using Cisco Packet Tracer is a bonafide work carried out by

Bindu N	1KG14EC011
Bindu S	1KG14EC012
Meghana R	1KG14EC050
Mohanapriya G	1KG14EC054

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belagavi, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of

21/5/18 Name and Signature of (PUNBETHS)

University Examiners:

Profess Department Dept of Electronics & Communication Industrial, Guide Dronoch SRIDHARA THE START SCHLOLELECTION COUP of Institution Principal/Director MANAGER, TESTING SCHLOLENSING COUP of Institution School Of Engineering & Manager fra from 1 TA KS, School of Engineering 560 62 BENGALURU: 580 400 BELL, BANGALORE - Shifting Bangalore-560 62 SAKET ACRAUDAL

Name and Signature of Examiner-

Name and Signature of Examiner-2

in Principal/

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled **Design and Implementation of real** time handwritten character recognition system using accelerometer sensor is a bonafide work carried out by

> PREETHI.S R.SAI SIREESHA RASHI KHANDELWAL SAHANA.A

> > Dept. of Electronic

1KG14EC061 1KG14EC064 1KG14EC071 1KG14EC075

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and** Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

University Examiners:

lead of the

K.S. Group of Institutions K. K.S. School of Engineering & Management

Bangalore-560 062.

In Engineering Principal/Director Anagement BENGALURU=:560 109

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Design and Implementation of an Autonomous Vehicle with Lane detection, Speed control and Emergency alert system is a bonafide work carried out by

> Ankith Rao P Charan C. R Joshi Yaznik Venkatraman Madhusudana Nayak

1KG14EC006 1KG14EC015 1KG14EC036 1KG14EC048

in partial fulfilment for the award of Bachelor of Engineering in Electronics and communication Engineering of Visvesvaraya Technological University, Belagavi, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Guide (PUNGETH'S)

University Examiners:

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Head

Principal

Dept. of Electronics & Communication Engin Ding S. N. SRIDHARA K.S. School of Engineering & Management R.S. School Of Engineering & Management BENGALURU::560 109.

and Signature of Examine

Name an Signature of E

K. S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109 **Department of Electronics and Communication Engineering** Certificate This is to certify that the project work entitled Implementation of Health Monitoring System for Neonatal Units using IoT is a bonafide work carried out by A K Yamini 1KG14EC001 Anupama Suresh Rao 1KG14EC007 Harshith PG 1KG14EC031 Kavya A 1KG14EC038 in partial fulfilment for the award of Bachelor of Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree. Head of the Department PrincipalinDirector Professor & Head Dept. of Electronics & Communication. School of Engineering & Management Name and Signature of the Guide K. S. School of Engineering & Manago..... Bangalore-560 062 Bangalore-560 109 University Examiners: 845 7 216/18 Name and Signature of Examiner-1 Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560062



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Implementation of sensor based Intelligent Street light system is a bonafide work carried out by

B. V. Mahesh Kumar	1KG14EC009
Gowthami .B	1KG14EC029
Gutta Sai Sudha	1KG14EC030
Jahnavi .D	1KG14EC033

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

alini Chravan Name and Signature of Head of the

Internal Guide

Department

PrincipalDirector K.S. School of Engineering & Management

Bangalore-560 062

Professor & Head Dept. of Electronics & Communication Engineering K. S. School of Engineering & Management Bangalore-560 109

University Examiners:

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled **Implementation of Face and Voice Recognition (Multimodal Biometrics) using Raspberry Pi** is a bonafide work carried out by

> R C Harish Ravi Prakash B R Suhas P D Venkat Lohit P

1KG14EC063 1KG14EC072 1KG14EC088 1KG14EC099

in partial fulfilment for the award of **Bachelor of Engineering in Electronics & Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Head of the Principality Director Department Liead School of Engineering & Management K. S. School of Engineering & Management Bangalore-560 109

University Examiners:

Name and Signature of Examiner-2



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Design and Implementation of Automatic Gun Turret System using OpenCV and Python is a bonafide work carried out by

> Naveen T R 1KG14EC057 Rangasai K R 1KG14EC068 Smitha J 1KG14EC083 Ujjwala Prasad N 1KG14EC094

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

(VERANR)

Name and Signature of Internal Guide

repartment Head of the

DHARA Professor & Head Principal/Director Dept. of Electronics & Communication Engike Strechool Of Engineering & Managem K.S. Group of Institutions BENGALURU=:560 109.

K.S. School of Engineering & Management Bangalara-Sil 152

University Examiners:

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled **Design and Implementation of a Vehicle to Vehicle Communication System Using VANET Technology** is a bonafide work carried out by

Lathashree S	
Manasa H	N
Neelu R	

1KG14EC042 1KG13EC051 1KG12EC062

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Internal Guide Dept. of Elead A DProcimi/SRIDHARA Principal/Director K.S. Graup of Institutions K.S. School of Engineering & Management K. S. School Of Engineering & Manage BENGALURU=560 109 Bangalere-568 062. Name and Signature of Examiner-1 Name and Signature of Examiner-2



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Implementation of Sericulture Farm Automation using Sensor Network and GSM Technology is a bonafide work carried out by

> Chiranjeevi .M D.R.Chiranjeevi Maddipatla Venkata Saijagan Mohan .C

1KG14EC018 1KG14EC019 1KG14EC046 1KG14EC053

in partial fulfilment for the award of Bachelor of Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of the Bopartment lead-o Guide K.S. School of Engineering & Management Director Bangalore-561 062. K. S. School Of Engineering & Mane

University Examiners:

Name and Signature of Examiner-1

Name and Signature of Examiner-2

BENGA1.URU::550 10

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled **Development of Farmland** Surveillance System Using Micro Air Vehicle is a bonafide work carried out by

Abhishek C	1KG13EC001
Ramya A	1KG14EC066
Sangeetha R	1KG14EC077
Swathi N	1KG14EC090

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

The G.M Dr. Dushyanth Dr. Ginst Professor Professor and HOD Internal Guide KNI M. Bengaluru SSEM B eralury SSEM, Bengalur . S. N. SRIDHAR ics & Cammunication E rincipal/Director C. C. MINSOR, BARS 150 ε. I OF Emp W J Mane e of 2 "g-reening 5 Manag RENGALURU-560 109 University Examiners Bangarere 560 462

Name and Signature of Examiner-2



Department of Electronics & Communication Engineering

Certificate

This is to certify that the project work entitled **Design and Implementation of Real Time Emotion Detection Using Thermal Imaging and Expression Analysis** is a bonafide work carried out by

Rahul Srinivasan	1KG13EC083
Pramod B N	1KG14EC060
Revanth J	1KG14EC073
Ronit T E	1KG14EC074

in partial fulfilment for the award of Bachelor of Engineering in Electronics & Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr.Chethan Sharma P Assistant Professor Dept. of ECE KSSEM

Dr.S N Sridhara

Dr. Girish V Attimarad Dr. S N Projessors Head Princip Dept. of Electronics Communication Engineering Dept. Of ECF Stitutions Dr. SSEN K.S. KINDELMgineering & Management Princip Bangalore-560 662 K. S. School II Eng

Principal/Director ngineering Dr. S. N. SRIDHARA ement Principal/Director K.S. School II Engineering & Manager and BENGALURU::560 109.

University Examiners:

Name and Signature of Examiner-1



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled **Design and implementation** of an *E-Phoropter using Raspberry Pi* is a bonafide work carried out by

Ajay Shashidharaya Hiremath Akash Deep Chaitra N Jyesta Venkatesh 1KG14EC002 1KG14EC003 1KG14EC013 1KG14EC037

in partial fulfilment for the award of **Bachelor of Engineering in Electronics** and communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide Herd of the

Principal

Dept. of Electronics & Communication Engineering & Management K. S. School of Engineering & Management Bangalore-560 109

University Examiners:

Name and Signature of Examiner-1



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Development and Implementation of AUV for Data Acquisition and Image Enhancementis a bonafide work carried out by

Arun Gowda P	
Jamuna N	
Anand B N	
Madhu Sai B	

1KG14EC008 1KG14EC034 1KG14EC004 1KG14EC047

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DS. P-KARTHIK

Name and Signature of Guide

0625

Head offthe Department Professor & Head Dr. Factyal DRJDFIARA Principal/Director Bept. of Electronics & Communication Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062

University Examiners:

Name and Signature of Examiner-1

niner-1 Name and Signature of Examiner-2



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Design and Implementation of an Autonomous Vehicle with Lane detection, Speed control and Emergency alert system is a bonafide work carried out by

Ankith Rao P	1KG14EC006
Charan C. R	1KG14EC015
Joshi Yaznik Venkatraman	1KG14EC036
Madhusudana Nayak	1KG14EC048

in partial fulfilment for the award of Bachelor of Engineering in Electronics and communication Engineering of Visvesvaraya Technological University, Belagavi, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Guide (PUNBGTH-S) Dept. of Electronics & Communics on Engineerin? Dr. S. N. SRIDHARA K.S. Group of Institutions K.S. Scheel of Engineering & Management, S. School Of Engineering & Managem University Examiners: BENGALURU=:560 109. Name and Signature of Examiner-2 Name and Signature of Examiner-I



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Design and Implementation of Solar Powered Automated Garbage Monitoring System is a bonafide work carried out by

Pushpavathi M.R	1KG14EC062
Satish J	1KG14EC079
Shashi Kumar D.M	1KG14EC080
Sudha K.R	1KG14EC087

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Uswal 115 Dr.Girish Attimarad Mr Manu D.K Dr. S.N. Sridhara Dr. S. N. SKIDHARA Associate Professor Head of the Department Principal/Director Cost of Electronics & Communication Engineering S. School Of Engineering & Manager Professar & Head BENGALURU ... 560 109. University Examiners: K.S. Group at Institutions K.S. School of Engineering & Management Bangalure-500 052 Name and Signature of Examiner-1 Name and Signature of Examiner-2

No. 12, Mallasandra, Off. Kanakapura Road, Bengaluru-560 062



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled LABVIEW BASED EARLY DETECTION OF ATHEROSCLEROSIS USING PHOTOPLETHYSMOGRAM SIGNAL is a bonafide work carried out by

Thejashwini L	1KG14EC093
Urmila A S	1KG14EC095
Vatsala K S	1KG14EC098
Vinosha W	1KG14EC100

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during the internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of technical seminar work prescribed for the degree.

BAR Mr. Ravikiran B A Associate Professor Guide

Dr. Girish V Attimarad Head of the Department Professor & Head Dr. S. N. SRIDHARA Dept. of Electronics & Communication Engineering K.S. Group of Institutions K.S. School of Engineering & Management BENGALURU=560 109.

University Examiners:

Name and Signature of Examiner-1



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Implementation of a Smart Gadget for Women Safety using Raspberry Pi is a bonafide work carried out by

Dharmavarap	ou Bharath
Gunasree .G	
layashree .G	
Medamanuri	Preethi

1KG14EC020 1KG14EC024 1KG14EC035 1KG14EC049

in partial fulfilment for the award of Bachelor of Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Swarti Sarekay

Name and Signature of the Guide

Concerns Engineering ! wer spinet Earlighte-stilles

Head of the Department Principal/Director SRIDHARA

Principal/Director K. S. School Of Engineering & Management BENGALURU-:560 109.

University Examiners:

Name and Signature of Examiner-1

Just outil

Name and Signature of Examiner-2

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No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560062



Department of Electronics and Communication Engineering Certificate

This is to certify that the project work Implementation of Abnormal Event Detection for Video Surveillance System using Sparse Combination Algorithm to Enhance Public Safety is a bonafide work carried out by

Pooja M	1KG14EC059
Sandhya D S	1KG14EC076
Srikesh N	1KG14EC086
Punith Kumar Y	1KG15EC402

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Head of the Department

Professor & Head

K.S. Group of Institutions

Bangalore-560 962

Principal/Director

Dr. S. N. SRIDHARA Principal/Director K.S. School of Engineering & Management K. S. School Of Engineering & Management BENGALURU=:560 100

University Examiners:

Name and Signature of Examiner-2

Dept. of Electronics & Communication Engineering

Design and Development of a GSM and DTMF based Monitoring System for Power Transformer Incipient Fault Diagnosis

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Rahul Chowdary B Bharath Kumar N M Umesha D 1KG12EE028 1KG14EE401 1KG14EE411

Under the Guidance of Mr. Srinivas Kalyan K Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062 2017-18

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Design and Development of a GSM and DTMF based monitoring system for Power Transformer Incipient Fault Diagnosisis a bonafide work carried out by

Rahul Chowdary B	1KG12EE028
Bharath Kumar N M	1KG14EE401
Umesha D	1KG14EE411

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Sinivar Kdya

Name and Signature of Internal Guide

R.R.N-

Head of the Propertment, Dept. of Electrical & Electronics Engineering K. S. School Of Engineering & Management K.S. School of Engineering & Management Bangalore-560 C62.

Principal/ DireSon SRIDHARA BENGALURU::560 109.

University Examiners:

Shubha Row She

Name and Signature of Examiner-1

Kamya K.R

Name and Signature of Examiner-2

Design and development of an efficient power and energy management system for an Autonomous robot

A Project Work submitted to



Visvesvaraya Technological University

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

Bachelor of Engineering

in

Electrical and Electronics Engineering

Submitted by

Abhishek C U1KG14EE002Bhavana R1KG14EE010T Vamsi1KG14EE040Yatheeswar M1KG14EE046

Under the Guidance of

Mrs. Gousia Sultana

Asst. Professor

Department of EEE

KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062

2017-18

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Design and development of an efficient power and energy management system for an autonomous robot is a bonafide work carried out by

Abhishek C U	1KG14EE002
Bhavana R	1KG14EE010
T Vamsi	1KG14EE040
Yatheeswar M	1KG14EE046

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

hour a Sultana

Name and Signature of Internal Guide

KRN Head of the

Department Professor & Head

K.S. Group of Institutions

Bangalore-560 062.

Principal

Director N. SRIDHARA Principal/Director Bept. of Electrical & Electronics Engineering & Managements BENGALURU::560 109 K.S. School of Engineering & Management

University Examiners:

She (shubha Roo)

Name and Signature of Examiner-1

Kamya K.R

"Design and Implementation of Crop Protection and Proper Usage of Rain Water Using GSM"

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

ARUN B	1KG14EE006
HITHU K	1KG14EE013
RAKSHITHA K N	1KG14EE027
YASHASWINI S	1KG14EE045

Under the Guidance of

Mr. ANIL KUMAR T.R.B Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2017-18

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled "Design and Implementation of Crop Protection and Proper Usage of Rain Water Using GSM" is a bonafide work carried out by

ARUN B	1KG14EE006
HITHU K	1KG14EE013
RAKSHITHA K N	1KG14EE027
YASHASWINI S	1KG14EE045

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during Internal assessment have been incorporated in the report and this Thesis satisfies the academic requirement in respect of project work prescribed for the degree.

uncut ANEL KUMART.RB.

Name and Signature of Internal Guide

R.R.NZ

Head of the Department Dept. of Electrical & Electronics Engineering K.S. Group of Institutions K.S. School of Engineering & ManagementK. S. School Of Engineering & Management Bangalore-560 062.

Principal/Director Dr. S. N. SRIDHARA Principal/Director BENGALURU::560 109.

University Examiners:

shubbar

Name and Signature of Examiner-1

Name and Signature of Examiner-2

Design and Development of Automated Smart Homes using the Concept of Internet of Things (IOT)

A Project Work submitted to



Visveshvaraya Technological University In partial fulfilment of the requirements For the award of degree of Bachelor of Engineering

In

Electrical & Electronics Engineering Submítted by

1KG13EE002 Bhatta Rajesh 1KG13EE029 Rashmi.S 1KG13EE030 Roopashree.PR Under the Guidance of

Ms. Dharshini G

Assistant Professor

Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering

K.S. School of Engineering and Management

No. 15, Mallasandra off Kanakapura Road, Bangalore-560062

2017-2018

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical & Electronics Engineering

Certificate

This is to certify that the project work entitled "Design and development of automated smart homes using the Concept of Internet of Things (IOT)" is a bonafide work carried out by

> 1KG13EE002 Bhatta Rajesh 1KG13EE029 Rashmi.S 1KG13EE030 Roopashree.PR

in partial fulfilment for the award of Bachelors of Engineering in Electrical & Electronics Engineering of K.S. School of Engineering and Management, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

RRIN

Head of the Department Professor & Head Dept. of Electrical & Electronics Engineering k.S. Grou- of Institutions K.S. School of Engineering & Management

Bangalure-560 052.

Principal/Director Dr. S. N. SRIDHARA Principal/Director K. S. School Of Engineering & Manar-BENGALURU=560 <

Kamya K.R

University Examiners: uha Roo.K

Name and Signature of Examiner-1

Name and Signature of Examiner-2

ii

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Design and Development of Data Acquisition and

Controlling Unit for Power Generation

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Ayesha Firdose1KG14EE007Shradha Jaiswal1KG14EE031Srikant Shanu1KG14EE035Vishal B.V1KG14EE044

Under the Guidance of

Mrs. Manjula B.G

Associate Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2017-18

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled **Design and Development of Data** Acquisition and Controlling Unit for Power Generation is a bonafide work carried out by

Ayesha Firdose	1KG14EE007
Shradha Jaiswal	1KG14EE031
Srikant Shanu	1KG14EE035
Vishal B.V	1KG14EE044

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

jular 14 25/5/18

Name and Signature of Internal Guide

K.K.M

Head of the Department Professor & Head Bept. of Electrical & Electronics Enginedifiery K.S. Group of Institutions K.S. School of Engineering & Management Eangelore-560 062. Principal/Director

Dr. S. N. SRIDHARA Principal/Director K. S. School Of Engineering & Management BENGALURU=560 109.

University Examiners:

Shubla Ras

Name and Signature of Examiner-1

Design and Development of a DC/DC Converter for Battery Energy Storage System Supporting Railway DC Feeder Systems

A Project Work submitted to



Visvesvaraya Technological University

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

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Akash M V Meghana Raj C G Naga Sankalpa G Sudheendra H R 1KG14EE003 1KG14EE019 1KG14EE020 1KG14EE037

Under the Guidance of Mrs. Ramyashree H.P Asst. Professor, Department of EEE KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109 2017-18

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Design and development of a dc/dc converter for battery energy storage system supporting railway dc feeder systems is a bonafide work carried out by

Akash M V	1KG14EE003	
Meghana Raj C G	1KG14EE019	
Naga Sankalpa G	1KG14EE020	
Sudheendra H R	1KG14EE037	

in partial fulfilment for the award of Bachelor of Engineering in "Electrical and Electronics Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

H-O. Ruf 136 18 Name and Signature of Guide

B.K.m

Head of the Department Professor & Head Dept. of Electrical & Electronics Engineering K.S. Group of Institutions K.S. School of Engineering & Management BENGALURU=500 Bangalure-560062.

Principal/ DHARA Principal/Director K. S. School Of Engineering & Mar

University Examiners:

Ramya K.R Jamp

Design & Implementation of Automation in Electro-Plating Plant using PLC & SCADA

A Project Work submitted to



Visvesvaraya Technological University

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

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Gautham B U1KG14EE012Naganand B N1KG14EE021Pooja N1KG14EE023Sushmitha N1KG14EE039

Under the Guidance of Mrs. Ramya K R Associate Professor Dept. of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109 2017-18

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled "DESIGN AND IMPLEMENTATION OF AUTOMATION IN ELECTRO-PLATING PLANT USING PLC & SCADA" is a bonafide work carried out by

Gautham B U	(1KG14EE012)
Naganand B N	(1KG14EE021)
Pooja N	(1KG14EE023)
Sushmitha N	(1KG14EE039)

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Ramya K.R. Protessor Add of the Name and Signature of

me and Signature of Professo Headeoff the Principal/ Internal Guide Dept. of Electrical & Electrocal & Electr

University Examiners:

= (shubha Rao

Ramya K.R Jamb 14-16/18

Name and Signature of Examiner-1

Design and Development of a Voltage Multiplier based High Voltage DC Generator

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

B.Divya 1KG14EE008 Prathima.K.J 1KG14EE024 Subramani.M 1KG14EE036 Vinutha.S 1KG14EE043

Under the Guidance of Dr.B.R.NATARAJAN Head of the Department Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2017-18

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electrical and Electronics Engineering Certificate

This is to certify that the project work entitled Design and Development of a Voltage Multiplier based High Voltage DC Generator is a bonafide work carried out by

B.Divya	1KG14EE008
Prathima.K.J	1KG14EE024
Subramani.M	1KG14EE036
Vinutha.S	1KG14EE043

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Dr. B. R. NATARATAN

Name and Signature of

B.R.N

Name and Signature o Internal Guide

Head of the Department Professor & Head Dept. of Electrical & Electronics Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Principal/Director Dr. S. N. SRIDHARA Principal/Director K. S. School Of Engineering & Management BENGALURU::560 109.

University Examiners:

shubha Reo Sto

Name and Signature of Examiner-1

Ramya K.R

Design and Development of a Child Rescue System Against

Open Bore wells at Agriculture Field in India

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

ARCHANA.V	1KG14EE005
MANASA.K.R	1KG14EE017
SHIVANI.M.RAO	1KG14EE033
MANJUNATH	1KG15EE405

Under the Guidance of Mr.SRINIVAS KALYAN K Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2017-18

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electrical and Electronics Engineering Certificate

This is to certify that the project work entitled Design and Development of a Child Rescue System Against open Bore wells in Agriculture field in India is a bonified work carried out by

Archana.V	1KG14EE005
Manasa. K.R	1KG14EE017
Shivani.M.Rao	1KG14EE033
Manjunath	1KG15EE405

in partial fulfilment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Similar Kalyan K

Internal Guide

Dr. Srilleips Bhoud R epartment Principal/Director Dept. of Electrical & Electronics Engineering S. School Df Engineering & Managemet. K.S. Group of Institutions K.8. School of Engineering & Management BENGALURU=560 109. Bangalere-560 062.

University Examiners:

Name and Signature of Examiner-1

Design and Development of Intelligent Submersible Pump using IoT for Irrigation Purpose

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Lakshmikanth R	1KG14EE016
Sanjana Kulkarni	1KG14EE029
Anil Kumar V	1KG15EE400
Bindushree M	1KG15EE402

Under the Guidance of Mrs. Gousia Sultana Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062 **2017-18**

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled, "Design and Development of Intelligent Submersible Pump for Irrigation Purpose Using IoT" is a bonafide work carried out by

1KG14EE016
1KG14EE029
1KG15EE400
1KG15EE402

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

(GOUSIA SULTANA) housin Sultan

Name and Signature of Internal Guide

Head of the Department tient of Electrical & Electronics Engineering K.S. Group / Institutions K.S. School of Engineering & Management K. S. School DI Engineering & Management Bangalore-560 (r2.

Principal/ Director Dr. S. N. SRIDHAR/ Principal/Director BENGALURU::560 109

University Examiners:

shubhaRao

Name and Signature of Examiner-2

Design and Development of Wireless Sensor Networks for Soldier's Status Monitoring Based on Zigbee

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Arun Kumar D S	1KG14EE048
Shobhitha K	1KG14EE049
Sindhu Patil	1KG14EE050
Sulochana K V	1KG14EE051

Under the Guidance of Mrs RAMYASHREE H.P Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062 2017-18

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled **Design and Development of** Wireless Sensor Networks for Soldier's Status Monitoring Based on Zigbee is a bonafide work carried out by

Arun Kumar D S	1KG14EE048
Shobhitha K	1KG14EE049
Sindhu Patil	1KG14EE050
Sulochana K V	1KG14EE051

in partial fulfilment for the award of **Batchelor of Engineering in Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

H-P 0

Name and Signature of Internal Guide

R.R.M

Head of the department or Hebb) | C Dept. of Electrical & Electronics Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-500 062.

PrincipH. S. N. SRIDHARA Director Principal/Director K. S. School Of Engineering & Management BENGALURU=:560 109.

University Examiners:

shubha Row

Name and Signature of Examiner-1

Kamya K

Name and Signature of Examiner-2

No. 15, Mallasandra, off KanakapuraRoad, Bengaluru-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Redesign of Mini Tiller for small farming is a bonafide work carried out by

Modupalle Chaitanya Kumar 1KG14ME027 Vasanth D 1KG14ME058 Karthik S 1KG15ME408 Krishne Gowda S N 1KG15ME409

In partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgavi, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Name and Signature of Co Guide

Head of the Department Dr. S

RIDHARA Principal/Director

A. Harces

Professor & Head School Of Enginzering & Managemoni Dept. of Mechanical Engineering K.S. Group of Institutions

K.S. School of Engineering & Management Bangalore-560 062.

Name and Signature of Examiner-2

University Examiners:

Name and Signature of Examiner-1 Scanned with CamScanner

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Computational Studies on Heat Transfer in a 2D cavity Flow is a bonafide work carried out by

> BHARATH. K **GUNASHEKAR R** PAWAN K PRANAV BHARADWAJ K

1KG14ME008 1KG14ME014 1KG14ME035 1KG14ME038

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Academic Guide

Winod A

Name and Signature of Academic Co-Guide

HARA

ctor

Realbasene He Dr Dept. oPepatimiat Engineer K.S. Group of Institutions of JRU=560 100

Bangalore-560 062.

University Examiners:

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2 14/06/18

Name and Signature

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work "Investigation of influence of turning tool surface modification on various machining parameters is a bonafide work carried out by

-1KG14ME005
-1KG14ME064
-1KG14ME065
-1KG14ME066

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Signature of Internal Guide with date

Head

f Department Dept. of Mechanical Engineering K.S. Group of Institutions Bangalore-560 062.

Principal/Director

K. S. School Of Engineering & Managenact K.S. School of Engineering & Management BENGALURU=560 109.

Name and Signature of

University Examiners:

ame and Signature of Examiner-1

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT



Department of Mechanical Engineering

Certificate

This is to certify that the Project Work entitled "Performance Evaluation of Nano based Bio-oils as Cutting fluids for Turning operation of Mild Steel" is a bonafide work carried out by

> **YASHWIN G** 1KG13ME059 SUJITH KASHYAP A R 1KG14ME001 KUSHAL S 1KG14ME020 **PUNEETH H** 1KG14ME042

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2018, it is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Dr. Jyothi PN Professor Dept. of Mechanical Engg

Dr. Shailesh Rao Professor & Head Dept. of Mechanical Engg Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

BF. SN Principal/Dire K. S. Schook Standeering & Mar BENGALURU=560 1

University Examiners:

A - Hareach -

Name and Signature of Examiner-1 Scanned with CamScanner

Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Experimental study of axial forces Of 6082 aluminium plate by friction stir welding is a bonafide work carried out by

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G13ME019 G13ME042 G14ME002 G14ME004

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature Internal Guide

Name and Signature of internal Co- Guide

Head of the Department Principal/Director K. S. School Of Engineering & Mana BENGALURU::560 10

University Examiners:

Name and Signature of Examiner-1

Name and Signature of Examine

canned with amScanner

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT



Department of Mechanical Engineering

Certificate

This is to certify that the Project Work entitled REDESIGN AND FABRICATION OF PORTABLE PNEUMATIC PRESS is a bonafide work carried out by

ADITHYA.V.D	1KG15ME400
ADITYA.M.S	1KG15ME401
PUNEETH NAG	1KG15ME411
SHASHANK.H	1KG15ME413

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18, it is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Dr. Yuvaraja Naik Associate Professor Dept. of Mechanical Engg

Dr. Shailesh Rao A Professor & Head Dept. of Mechanical Engg

DPr.S. NSISHIDHAR Princippi/Difector S. School BISSEINdering & Nana BENGALURU::560 10

University Examiners:

A Harren

Name and Signature of Examiner-1

canned with

Name and Signature of Examiner-2

K.S.SCHOOL OF ENGINEERING AND MANAGEMENT



Department of Mechanical Engineering

Certificate

This is to certify that the Project Work entitled "Design And Fabrication Of Semi-Automatic Tap Root Harvester" is a bonafide work carried out by

R SUBRAMANIAN	1KG12ME046
PARAMESH N	1KG13ME411
NIKHIL S	1KG14ME033
RANJITH KUMAR L	1KG15ME412

In partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2018, it is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr. Harsha J Assistant Professor Dept. of Mechanical Engg

Dr. Shailesh Rao A Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalcre-560 062.

Dr. S N Sridhara Principal/Director Dr. S. N.SSEMDHARA Principal/Director K.S. School Of Engineering & Managament

BENGALURU=560 109.

University Examiners:

Yun 14/06/11 Vanja Musk

Name and Signature of Examiner-

Name and Signature of Examiner-2

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No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Synthesis and Characterization of Biopolymer Nanocomposite is a bona fide work carried out by

SAMEEL SHARIFF	1KG14ME050
GANESH GADDE	1KG13ME016
SARATHY VENKATESH	1KG13ME048
SOWNDARIYA M C	1KG15ME414

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Head of the Department

Principal/ Director

Dr. S. N. SRIDHARA Principal/Director K.S. School of Engineering & Manage K.est School Of Engineering & Manager ---BENGALURU=560 109

Name and Signature of Examiner-2

University Examiners:

w 14/05/1

Name and Signature of Examiner-1



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Dept. of Mechanical Engineering K.S. Group of Institutions

Bangalore-560 062.

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Experimental Investigation On the performance characteristics of DTS-i engine fuelled with Gasoline-Butanol blend is a bonafide work carried out by

AKARSH D	1KG12ME003
CHETHAN G T	1KG13ME012
MADHU H M	1KG14ME405
VEERESH R K	1KG14ME416

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of Guide

06106/18

Principal/ Director Head of the Department Professor & Head Dr. S. N. SRIDHAF Dept. of Mechanical Engineering Principal/Director K.S. Group of Institutions K. S. School Of Engineering & Man K.S. School of Engineering & Management BENGALURU -: 560 1 Bangalore-560 062. University Examiners: dreach

Name and Signature of Examiner-1

Name and Signature of Examiner-2

Scanned with amScanner

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Design and fabrication of coconut de-husking and chopping machine is a bonafide work carried out by

ARJUN R

E MAHESH

KORAPATI POORNA KUMAR

AKSHAY B

1KG11ME005 1KG14ME013 1KG14ME019 1KG15ME405

In partial fulfilment for the award of Batchelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

26/05/18.

Name and Signaturé Internal Guide

University Examiners:

A. Hareash A

Name and Signature of Examiner-1 Scanned with CamScanner

Head of the Department

Head of the Department Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Derincipal/OFFIDHARA Principal/Director X. 3. School Of Engineering & Management BENGALURU=560 109.

5/6/18

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled "Design and fabrication of lowcost simplified electric car" is a bonafide Work carried out by

CHASWIN SHETTY	1KG14ME010
HARSHAVARDHAN T L	1KG14ME015
NAGARJUNA M	1KG14ME029
SRIKANTH S	1KG14ME052

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and signature of

Internal Guide

yun 14/06/18 nvaraja Naik

Name and Signature of Examiner-1

Scanned with CamScanner

Head ebartment

Dr. S. N. SRIDHARA PrinDipetMDirector & S. School Of Engineering & Menagemen BENGALURU::560 109.

Name and Signature of Examiner-2

No. #15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Design and Fabrication of Bi-Directional side dumping trailer for trucks is a bonafide work carried out by

1KG14ME017
1KG14ME041
1KG14ME062
1KG15ME403

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree

(SHIN BNAND/

Name and Signature of Internal Guide

the Department Head

Dept. of Mechanical Engineering K.S. Group of Institutions X. S. School Of Engineering & Management K.S. School of Engineering & Manageme Bangalore-560062.

Principal/ Director Dr. S. N. SRIDHARA Principal/Director BENGALURU-560 10\$.

University Examiners:

Grange Na

Name and Signature of Examiner-1

Scanned with CamScanner

Name and Signature of Examiner-2

K.S. School of Engineering and Management #15, Mallasandra, Off Kanakapura road, (Near Vajarahalli) Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the Technical Seminar Report entitled "Experimental Investigation of Forced Convection Heat Transfer through Perforation Fins" is a bonafide work carried out by

MITUN T	1KG14ME026
NIKHIL S	1KG14ME032
PRAMODA A J	1KG14ME037
RAHUL RAO R	1KG14ME044

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

1

)

Signature of Internal Guide With date

Head of Department with date

Principal/Director S. School Of Engineering & Managerice: BENGALURU=560 108

University Examiners.

Dr. Yhvanja Xluik Name and Signature of Examiner-1

Name and Signature of examiner-2

amScanner

K.S. School of Engineering and Management No. #15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Design and Fabrication of semiautomatic coil rewinding machine a bonafide work carried out by

Sachin Gowda	1KG13ME040
Dinesh Babu K	1KG14ME016
Rakshith N	1KG14ME046
Sagar C	1KG14ME049

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2017-18. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Head of the Department

DrinSpan. SRIDHARA Principal/Director School Of Engineering & Manage BENGALURU-560 10

University Examiners:

Dr. Yhnanja Majh Name and Signature of Examiner-1

Scanned with CamScanner

Name and Signature of Examiner-2







ISO 9001: 2000 Certified 12th KM. Hosur – Thally Road, Kallugondapalli Village, Krishnagiri Dist., Hosur – 635 114. T.N Ph: (0437) 233483, 233484, 233441, 233245 Fax: (04347) 233246, E-mail: <u>duroflex_fa@rediffmail.com</u>

Date: 07.04.2018

TO WHOM SO EVER IT MAY CONCERN

This is to certify that MR. PUNEETH, REG No: 1KG16MBA20, Student of K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, #15, Mallasandra, off-Kanakapura main road Bangalore 62. Doing master of Business of administration as undergone 12weeks projects work in our organisation from 15.01.2018 to 28.03.2018 under the topic, "A STUDY ON IMPACT OF THE ADVERTISING ON DUROFLEX PRODUCTS".

He has shown keen interest in learning the systems during his trainings.

We wish him all the success for his future endeavours.

Thanking You,

For Duroflex Pvt Ltd,

Sunil Kumar

MANAGER, HR DEPERTMENT

SHAHI EXPORTS PVT. LTD.

Date:31.03.2018

To Whom so ever it may Concern

This is to certify that Ms. Ambrutha C S (1KG16MBA01) Studying MBA in K.S School of Engineering and Management Bangalore, Successfully completed an project titled "A Study on Employee Welfare Measures" at "Shahi Exports Pvt Ltd". The Period of the Project was from 15nth January 2018 to 31th March 2018.

During the above period. Performance and conduct of Ambrutha C S (1KG16MBA01) has been good and satisfactory.

we wish her all the best for her future. Endeavours.

For Shahi Exports Pvt Ltd.

HR Manager

Address:

Email: www.shahi.co.in

Bannerghatta Main Road, angalore-560076

No: 37/1B, 43/2, 43/3. Arekere Village,

Facsimile: 0091-80-28591123

PAGARIYA FOOD PRODUCTS (P), LTD An ISO 22000-2005 certified company Corporate office: # 222, 1* floor, 3rd main road, Above Jain lab, I.L.S Enclave Chamrajpet, banagalore-560018, INDIA P: +91 80-26606204/5 E:INFO@kwality spices.com



INTERNSHIP CERTIFICATE

TO WHOM SO CONSTANTLY IT MAY APPREHENSION

This is to certify that BEERAPPA C. N (1KG16MBA02) Student of K.S School of engineering and management, Bangalore, VTU has successfully completed his internship training the project titled "A STUDY ON EFFECTIVENESS OF CHANNEL OF DISTRIBUION AT KWALITY SPICES (PAGARIYA FOOD PRODUCTS PVT, LTD) Harohalli from 17-1-2018 to 29-3-2018.

This project on appraisal fulfils all the stated criteria and the student's finding are his original work, we wish him all the best for future Endeavour's.

(External Guide)

Date: 09-04-2018

Unit: Plot No: 302-A, Phase KIADB Industrial, Area, Harohalli, Taluk Kanakapura Dist, Ramanagaram-562 112 Karnataka.



KAMMAVARI SANGHAM (R),1952 K.S. School of Engineering and Management Approved by AICTE-1-5279601, Affiliated to VTU, Belagavi

#15, Near Vajarahalli, Mallasandra, off Kanakapura Road, Bengaluru - 560 109, www.kssem.edu.in Tel : +91 80 28425012/013/163, Fax : +91 80 2842 5164, Mob : 8884444408

REF: KSSEM/MBA-2018-PROJECT REPORT

CERTIFICATE

This is to certify that BOYUNAPALLI RAVI bearing USN 1KG16MBA03. is a bonafide student of Master of Business Administration course of this Institute Batch 2016-2018, affiliated to Visvesvaraya Technological University, Belagavi. Internship report on "A STUDY ON CUSTOMER SATISFACTION AT KK DISTRIBUTORS, BANGALORE" is prepared by him under the guidance of PROF. MANJUNATHA S, in partial fulfillment of the requirements for the award of the degree of Master of Business Administration of Visveswaraya Technological University, Belagavi, Karnataka.

Ot-S mais

Internal Guide & HOD,

Prof.Manjunatha.S, Protessor & Head Dept. of Management Studies K.S. Group of Institutions K.S. School of Engineering & Management Bangaiore-560 062.

Dr. S^{pri}W^{ipS}RIDHARA DrPSiNcfristlerfloctor K. S. School Of Engineering & Management BENGALURU::560 109.



ಟೆಕ್ಸ್ ಟೈಲ್ ಕೋ - ಆಪರೇಟಿವ್ ಬ್ಯಾಂಕ್ ಲಿ., T E X T I L E

CO-OPERATIVE BANK LTD.,

ಆಡಳಿತ ಕಛೇರಿ : 2ನೇ ಮಹಡಿ, ದೇವಾಂಗ ಮಾರ್ಕೆಟ್, ಜುಮ್ಮಾ ಮಸೀದಿ ರಸ್ತೆ, ದೆಂಗಳೂರು - 560 002.

Ref. : TCB/ADMN/ 418 18-19

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ADMINISTRATIVE OFFICE : DEVANGA MARKET, 2nd FLOOR, JUMMA MASJID ROAD, BENGALURU - 560 002

= 5 MAY 2018

CERTIFICATE

This is to certify that Mr.R.Chethan Kumar . Reg. No.1KG16MBA04 a student of MBA in K.S.School of Engineering and Management, Bangalore, has completed Internship on "A study on Comparative Analysis of Textile Co-op Bank Loan Schemes with BCC Bank Loan Scheme" from 19.01.2018 to 31.03.2018 in our Bank at Gottigere Branch.

This permission to do a Internship Training was accorded on the request from the Institution which the student is studying for practical fulfillment for completion of his course.

The student evinced keep in the Training and during the period of Training his conduct was satisfactory.

MANAGER4A.O

Ist Floor, Devanga Market, J.M. Road, Bengaluru - S60 002 Ph: 22217905 - 22237655 - 650 No. 16, Ist "A' Main Road, Sudhamanagar, Bengaluru - S60 027 - Ph: 22243772 - 650 No. 11, 3rd Cross, Gramadevatha Street, Adugodi, Bengaluru - S60 030 - Ph: 22243772 - 650 No. 13, 11, 3rd Cross, Gramadevatha Street, Adugodi, Bengaluru - S60 023 - Ph: 25703133 - 650 No. 38/1, Magadi Rd. Main (near Anjan Theatre), Bengaluru - S60 023 - Ph: 23389481 - 650 No. 14/4, (K-64), 10th Cross, Lakshiminarayanapuram, Bengaluru - S60 021 - Ph: 23325357 - 653 No. 1562/1575/825, 2nd Cross, Weavers Colony, Gottigere, Bengalore - 560 083 - Ph: 28429403 - 655 No. 171, Taluk Office Road, Anekal - 562 106 - Ph: 27830603	372439 372437 372438 372440
--	--------------------------------------



Date 31-03-2018

To whomever it may concern

This is to certify that **Ms. Deeksha Yadav B** (USN No. 1KG16MBA05) has undergone internship at our organization and successfully completed her project titled on **"Recruitment and Selection Process"** From the date of 15th January 2018 to 31st March 2018.

During above period we found her sincere, enthusiastic and hardworking.

We wish her all the very best in her future endeavors.

For Anchor Electricals Pvt. Ltd.,

Authorized Signatory

Anchor Electricals Pvt. Ltd.

8-12, Prestige Nebula, Block-2 3rd Floor, Infantry Road Bangalore - 560 001. Tel : 080 - 30284400 Fax : 080 - 30284411 Regd. Office - 3rd Floor, B Wing (Think Techno Campus, Pokhran Road No. 2 Thane (West), Pin Code 400 807

TIN: 29700389082

Tel : (022) 30418888 2 F : (022) 30418884/5/8/7 www.anchor-world.com A member of Panasionic Group.



Inflow Technologies Pvt. Ltd. Inflow House, # 33 & 34, Indiranagar 1st stage, Off 100 Feet Road, Bangalore - 560 038. Ph: +91 80 41265151, Fax: +91 80 41265152 info@inflowtechnologies.com / inflowtechnologies.com CIN No.: U72200KA2008PTC048560

March 27, 2018

То

The Professor & Head Department of Management Studies KS Group of Institutions Bangalore

This is to inform that Mr. Hassan Noumon Khan (USN No. 1KG16MBA06) has completed his project titled "A Study On HR Policies And Implementation" at Inflow Technologies Pvt Ltd Bangalore during the period of 15-1-2018 to 24-3-2018 towards fulfilling his academic requirement for the completion of his course.

Thanking you

Yours sincerely

Nancy Varghese Head - HR & Admin





Date: 31/03/2018 Place: Bangalore

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. HEMAVATHI.G (Reg.No.-1KG16MBA07) pursuing IV semester MBA at M/s. K S School of Engineering & Management affiliated to VTU University. As part of her curriculum and for the partial fulfilment of MBA degree she has successfully completed Project at M/s. Neo Labels Inc., for the period of 15th January 2018 to 31st March 2018 on "Working Capital Management with special reference to Neo Labels Inc."

During the period of her Internship project work with us her conduct was good.

We wish her all the very best for her future Endeavour.

For Neo Labels Inc, Somegowda Manager – Accountant.

57, 8th Main, Nanjappa Layout, Kanakapura Main Road, Yelachenahalli, Bangalore- 560 062. Ph: 080-2686 0616 Mob : 99007 49879 E-mail : gneolabelsinc@gmail.com website: www.neolabelsinc.com CIN: U85110KA1980SGC003871

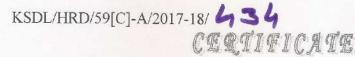


ಕರ್ನಾಟಕ ಸಾಬೂನು ಮತ್ತು ಮಾರ್ಜಕ ನಿಯಮಿತ



(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ)

Karnataka Soaps & Detergents Limited (A Government of Karnataka Undertaking)



Date:24.03.2018

This is to certify that **Ms.** Kusuma.S,Student of MBA, Reg.1KG16MBA08, of K.S.School of Engineering and Management,No.15,Vajarahalli, Mallasandra, Off. Kanakapura Road, Bengaluru-560 054. Affiliated to Visveswaraya Technological University, Belagavi, has done Project work **"A Study on Employee Job Satisfaction"** at Karnataka Soaps & Detergents Limited,Bengaluru-560055, from: <u>15.01.2018 to 24.03.2018.</u>

During her Project work in our Company, we found her Character & Conduct is Good.

We wish her success in Life and Career.

Krist 24/3/18

ASST.GENERAL MANAGER [Human Resource & Development] Kamataka Soaps & Detergents Limited # 27, Industrial Suburb, Bengaluru-Pune Highway, Rajajinagar, Bengaluru-560 055

ಆಡಳಿತ ಕಛೇರಿ ಮತ್ತು ಕಾರ್ಖಾನೆ : ನಂ.27, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಸಬರ್ಬ್, ಬೆಂಗಳೂರು–ಪೂಣೆ ಹೆದ್ದಾರಿ, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು–560 055, ಭಾರತ ದೂರವಾಣಿ : ■ ಕಾರ್ಖಾನೆ : 080–2216 4800 ■ ಶುಲ್ಕ ರಹಿತ ಕರೆ : 1800 425 1103 ■ ಫ್ಯಾಕ್ಸ್ : 080–2337 0498 / 2337 5102 ■ ಟೆಲಿಫ್ಯಾಕ್ಸ್ : 2337 7691 Corporate Off. & Factory : #27, Industrial Suburb, Bangalore-Pune, Highway, Rajajinagar, Bangalore - 560 055. INDIA Ph : ■ Factory : 080-2216 4800 ■ Toll Free 1800 425 1103 ■ Fax : 080-2337 0498 / 2337 5102 ■ Telefax : 2337 7691 Website : http://www.mysoresandal.co.in CIN: U85110KA1980SGC003871



ಕರ್ನಾಟಕ ಸಾಬೂನು ಮತ್ತು ಮಾರ್ಜಕ ನಿಯಮಿತ



Karnataka Soaps & Detergents Limited (A Government of Karnataka Undertaking)

KSDL/HRD/59[C]-A/2017-18/ 433 CERTIFICATE

Date:24.03.2018

This is to certify that **Ms.K.Lakshmi Pavithra**, Student of MBA, Reg.1KG16-MBA09, of K.S.School of Engineering and Management, No.15, Vajarahalli, Mallasandra, Off. Kanakapura Road, Bengaluru-560 054. Affiliated to Visveswaraya Technological University, Belagavi, has done Project work "A **Study on Inventry Management**" at Karnataka Soaps & Detergents Limited, Bengaluru-560055, from: <u>15.01.2018 to 24.03.2018</u>.

During her Project work in our Company, we found her Character & Conduct is Good.

We wish her success in Life and Career.

ASST.GENERAL MANAGER [Human Resource & Development] Karnataka Soaps & Detergents Limited # 27, Industrial Suburb, Bengaluru-Pune Highway, Rajajinagar, Bengaluru-560 055

ಆಡಳಿತ ಕಛೇಠಿ ಮತ್ತು ಕಾರ್ಖಾನೆ : ನಂ.27, ಇಂಡಸ್ಟ್ರಿಯಲ್ ಸಬರ್ಬ್, ಬೆಂಗಳೂರು–ಪುಣೆ ಹೆದ್ದಾರಿ, ರಾಜಾಜನಗರ, ಬೆಂಗಳೂರು–560 055, ಭಾರತ ದೂರವಾಣಿ : ■ ಕಾರ್ಖಾನೆ : 080–2216 4800 ■ ಶುಲ್ಕ ರಹಿತ ಕರೆ : 1800 425 1103 ■ ಫ್ಯಾಸ್ಟ್ : 080–2337 0498 / 2337 5102 ■ ಟೆಲಿಫ್ಯಾಸ್ಟ್ : 2337 7691 Corporate Off. & Factory : #27, Industrial Suburb, Bangalore-Pune, Highway, Rajajinagar, Bangalore - 560 055. INDIA Ph : ■ Factory : 080-2216 4800 ■ Toll Free 1800 425 1103 ■ Fax : 080-2337 0498 / 2337 5102 ■ Telefax : 2337 7691 Website : http://www.mysoresandal.co.in

Certificate from the guide and head of the department



KAMMAVARI SANGHAM (R),1952 K.S. School of Engineering and Management

Approved by AICTE-1-5279601, Affiliated to VTU, Belagavi #15, Near Vajarahalli, Mallasandra, off Kanakapura Road, Bengaluru - 560 109, www.kssem.edu.in Tel: +91 80 28425012/013/163, Fax: +91 80 2842 5164, Mob: 8884444408

REF: KSSEM/MBA-2018-PROJECT REPORT

CERTIFICATE

This is to certify that MADHUSHREE U S bearing USN 1KG16MBA10, is a bonafide student of Master of Business Administration course of this Institute Batch 2016-2018, affiliated to Visvesvaraya Technological University, Belagavi. Project report on "A STUDY ON BUDGETING FRAMEWORK AND PROCESS AT PARSONS NUTRITIONALS PVT LTD.," is prepared by her under the guidance of Prof. CHETHAN M J, in partial fulfillment of the requirements for the award of the degree of Master of Business Administration of Visveswaraya Technological University, Belagavi, Karnataka.

Internal Guide, Prof. Chethan M J Assistant Professor of MBA Dept, KSSEM, Bengaluru

nonfullos

Head of the Department, Prof. Manjunatha.S,

Principal

Dr. S.N. Sridhara, Dr. S. N. SRIDHARA Protessor & Head Dept. of Management Studies & S. School Of Engineering & Management K.S. School of Engineering & Managemen PENGALURU=560 109. Bangaiore-560 662.



ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ಕಾರ್ಖಾನ ನಿಯಮಿತ (ಕರ್ನಾಟಕ ರಾಜ್ಯ ಸರ್ಕಾರದ ಸ್ವಾಮೃಕ್ಕೊಳಪಟ್ಟಿದೆ.) KARNATAKA VIDYUTH KARKHANE LIMITED (A Karnataka Government Undertaking) ISO-9001-2008 Company CIN: U31101KA1975PLC002954

KAVIKA/PA/2017-2018/4263

Date: 23.03.2018

CERTIFICATE

This is to certify that Ms.MANASA.S. (1KG16MBA11), Student of 4^{TH} Semester MBA studying in "K.S.School of Engineering & Management " Mallasandra, off Kanakapura Road Bangalore-560 062 has undergone Project in the area <u>"A STUDY ON COST CONTROL & COST CONTROL</u> <u>TECHNIQUES AT KAVIKA LTD"</u> during the period from 16.01.2018 to 23.03.2018.

The Project has been completed successfully to our satisfaction and her conduct during the tenure of the Project Project was good and we wish all the best in her career.

KARNATAKA VIDYUTH KARKHANE LIMITED

ENKATESHWARA PRASAD) R.

PERSONNEL OFFICER

ಕಾರ್ಖಾನೆ ಮತ್ತು ಆಡಳಿತ ಕಛೇರಿ : ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ಕಾರ್ಖಾನೆ ನಿಯಮಿತ, ಅಂಚೆ ಪೆಟ್ಟಿಗೆ ಸಂಖ್ಯೆ 2610, ಮೈಸೂರು ರಸ್ತೆ, ಜಿ FACTORY & REGISTERED OFFICE : KARNATAKA VIDYUTH KARKHANE LIMITED, POST BOX NO. 2610, MYSORE ROAD, ದೂರವಾಣಿ / Telephone : 080 - 26987200, 26743331, 26742337, ಫ್ಯಾಕ್ಸ್ / Fax : 080-26744; ಈ–ಮೇಲ್/e-mail : @kavika.co.in Website: kavika.co.in ಬೆಂಗಳೂರು ಮಹಾನಗರ ಸಾಲಿಗೆ ಸಂಸ್ಥೆ

ಕೇಂದ್ರ ಕಛೇರಿ : ಬೆಂಗಳೂರು

BENGALURU METROPOLITAN TRANSPORT CORPORATION HUMAN RESOURCE DEVELOPMENT DEPARTMENT

No: BMTC: CO: HRD: 070 / 2018-19

(iii)

Date: 2 /04/2018



CERTIFICATE

This is to certify that Mr. Muthuraj. M. (Reg. No. 1KG16MBA12) student of Master of Business Administration, K.S. School of Engineering and Management, Bengaluru has successfully completed the Project on the title "A Study on Cash Management at BMTC" from 13/01/2018 to 23/03/2018, at Bengaluru Metropolitan Transport Corporation.

The Corporation wishes him a bright future.

Place: Bengaluru

Chief Personnel Manager (HRD) B.M.T.C. Head of the Department Human Resource Development Department Bangaluru Metropolitan Transport Corporation Bangaluru Metropolitan Transport Corporation Bangaluru Schere Shanthingar, Bengaluru-27.



APPLE AUTO

CERTIFICATE BY THE COMPANY

Your Ref. _____

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **MR. VENKATESULU N** Reg No 1KG16MBA13 student at KSSEM COLLEGE, BANGALORE, Has successfully completed the project from JANUARY 3rd 2018 to MARCH 23rd 2018. The project titled on *** A STUDY ON IMPACT OF ADVERTISEMENT** at APPLE AUTO AGENCY PVT.LTD. BANGALORE.

During the above period, performance conduct by. MR. VENKATESULU N (REGNO1KG16MBA13) has been good and satisfactory.

We wish him all the best for his future endeavors.

THANKING YOU, Regards For APPLE AU (JAYA PRAKAS



APPLE AUTO AGENCY PVT. LTD. (Authorised Dealers for : Suzuki Motorcycle India Pvt. Ltd.) # 615, 100ft Ring Rcad, Kathriguppe, BSK 3rd Stage Bangalore - 560 085. Phone : 26697070, 26698080



PRADEEP SURGICAL DRESSINGS PVT. LTD.

MANUFACTURERS OF SURGICAL GAUZE SWABS, DRESSINGS & ALLIED PRODUCTS

3-A, Sarakki Industrial Estate, 3rd Phase, J.P. Nagar, Bannerghatta Road, Bangalore 560 076, INDIA. Tel: 080-26586254 / 26586042 Fax: 080 41536143 E-mail: pradeep.surgical@gmail.com

AN ISO 9001:2008 Company

Date:31-03-2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Nagamani.k (Reg.No-1KG16MBA14) pursuing IV semester MBA at M/s. K S School of Engineering & Management affiliated to Vishweshwaraya Technological University. As part of her curriculum and for the partial fulfilment of MBA degree she has successfully completed Project at M/s Pradeep Surgical and Dressing Pvt Ltd., for the period of 15th January 2018 to 31st March 2018 on the study of "Analysis of Financial Statementwith special reference to Pradeep Surgical and Dressing Pvt Ltd".

During the period of her internship project work with us her conduct was good. We wish her all the very best for her future Endeavour.

For Pradeep Surgical and Dressing Pvt Ltd

mp &m Managing Director (Pradeep Rao)



Registered Office : No. S-404, HM Tambourine, Kanakapura Main Road, Jaraganahalli, J.P. Nagar 6th Phase, Bangalore - 560 078

Synthite

CERTIFICATE

Date: 23.03.2018

This is to certify that Ms. Nayana Banakar student of K.S. School of Engineering and Management, Bangalore. Bearing USN 1KG16MBA15 has completed the project in HR Department at SYNTHITE INDUSTRIES LTD, Haribar under the project title "EMPLOYEE ABSENTEEISM". During the period 15th January to 24th March 2018.

This certificate is issued to produce before "K.S. School of Engineering and Management, Bangalore" for the completion of internship of project at SYNTHITE INDUSTRIES LTD, Baribar. She has successfully completed her project in our organization.

During this period, we found her to be sincere and hard working. We wish her all the best in future endeavors.

For SYNTHITE INCUSTRIES LTD.

Chetan H K. Assistant manager HR

gesthele sedaratese List Kennangestnern – 583 123 Nove Hieritae, Harveri Diat Kamatoka, India T + 918373 240449 F = 918373 240448 Haribac investigate com

CERTIFICATE FROM THE ORGANIZATION





Date: 31/03/2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Pallavi S (Reg. No.- 1KG16MBA16) pursuing IV semester MBA at M/s. K S School of Engineering & Management affiliated to VTU University. As part of her curriculum and for the partial fulfillment of MBA degree she has successfully completed Project at M/s. Precimeasure Controls Pvt. Ltd., for the period of 15th Jan 2018 to 31st March 2018 on "Financial Analysis with special reference to Precimeasure Controls Pvt. Ltd.,"

During the period of her Internship project work with us her conduct was good.

We wish her all the very best for her future Endeavour.

for Precimeasure Controls Pvt. Ltd.,

Asst. Manager - HR

PRECIMEASURE CONTROLS PVT. LTD.

Ph:080-66080108/109/107 CIN : U33130KA2001PTC029210

Branch & Works : Plot No. 65, 1st Stage, KIADB, Sompura Industrial Area, Dabaspet - 562111, Bengaluru, India Website : www.precimeasure.com



CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms.POORNIMA B G (USN No. 1KG16MBA18) from K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE has successfully completed her Internship/Project Training starting from 15-01-2018 to 24-03-2018 the project titled "A STUDY ON TRAINING METHODS, BANGALORE.

She has exhibited a high level of enthusiasm and commitment in her work.

On completion of the project, she has submitted a written report of the above studies.

We wish all the best for her future Endeavour's.

Regards,

Vivek V

Business Associate Lkp Securities Ltd BANGALORE.



LKP Securities Ltd.

Member : NSE Sebi Regn. No. INB / INF 230720030 / MAPIN ID 1000000331 Regd. Off. / WDM : 404, Embassy Centre, Nariman Point, Mumbai - 400 021 022-6635 1234, Fax 022-6635 1249

Shantha Complex, Ilnd Floor, 18-20, Lady Curzon Road, Infantry Road Cross, Bangalore - 560 001 Tel. : +91 80 3074 1400 Fax : +91 80 3074 1516 Website: www.lkpsec.com



Agra Ahmedabad Ahmednagar Aligarh Amritsar Bangalore Chandigarh Chennai Faridabad Gurgaon Hyderabad Jaipur Jalandhar Jamshedpur Jodhpur Kolkatta Ludhiana Mathura Mumbai Nasik New Delhi Noida Pune Rishikesh Sanganer Shrinagar Surat Vrindavan Vyara Yamunanagar



Ref no : date : prer/ 2017/035

CERTIFICATE

This is to certify that, **Mr. PRATHAP KC** (USN-1KG16MBA19) 4th semester MBA student of **K,S,SCHOOL OF ENGINEERING AND MANAGEMENT** has approached a organization he was successful completed Project Report on "**A STUDY ON RISK AND RETURN OF SELECTED MUTUAL FUND**" in SHAREKHAN BY BNP PARIBAS, from 5-01-2018 to 10-03 -2018.

We wish him all the best

ASST.GENERAL MANAGER [MARKETING]

SHAREKHAN BY BNP PARIBAS 492/K, 1st fir, 7th Cross, 7th Bik West, Jayanagar, Bangalore Rural, Karnataka 560082



Date: 25.03.2018

Place: Bangalore

TO WHOMEVER IT MAY BE CONCERN

This is to certify that Mrs.R.SINDHU bearing USN no: 1KG16MBA21,of MBA batch 2016-2018 of K S School of Engineering and management, Bangalore has undergone 10 weeks of internship training on "Employee retention techniques" at ACEBRIGHT (INDIA) PHARMA PVT LTD,Banglore w.e.f 15th January 2018 to 24th march 2018 During the training he has shown tremendous learning propensity.

We wish his success for all his future endeavors.

Mayarhumas,

HR Manager

Acebright (India) Pharma Pvt. Ltd.

CIN: U31909KA2007PTC043663

Zreyah Semiconductor Systems Pvt. Ltd.

March 26, 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. RANJITHA.G (USN 1KG16MBA22) MBA 4th semester student of K S School of Engineering and Management, Bangalore has successfully completed the training on the topic A Study on Employee Welfare for the period of 10 weeks from 15th January 2018 to 23rd March 2018

During her project work, her performance and conduct found to be good and satisfactory. We wish her all the best in all her future endeavors

For Zreyah Semiconductor Systems Pvt Ltd.

Bhoopal Reddy K.C

Director



No. 2, Sy.No. 49/1 & 49/3, AM Industrial Area, Hongasandra Village, Begur Hobli, Hosur Main Road, Bangalore - 560 068, Tel : 080 - 25744631-2 www.zreyahsemicon.com







RK/32-C/043

25.04.2018

Inno

CERTIFICATE

This is to certify that Mrs.SARASWATHI H Y (1KG16MBA24) a student pursuing MASTER OF BUSINESS ADMINISTRATION from K.S.SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE has successfully completed her Internship/Project at BEML Ltd. Bangalore Complex, during the Period from 05.01.2018 to 04.03.2018, as a part of her curriculum and has submitted a report titled "A STUDY ON INVENTORY MANAGEMENT AT BEML LTD".

During the adove period, we have found her to be dilligent and honest in her work and we wish her success in all her future endeavors.

for BEML LIMITED,

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(SYED SHUIYBUDDIN KZ) Asst. Officer-HR



Corporate Office :

'BEML SOUDHA', 23/1, 4th Main Road, S. R. Nagar, Bangalore - 560 027, INDIA Tel : 080 - 2222 4141 e-mail : office@pr.beml.co.in

Manufacturing Units :

KGF Complex Tel : 08153-263020 e-maii : bemiede@vsni.net.in

Mysore Complex Tel: 0821-2402422 e-mail: bernImys@sanchamet.in

Palakkad Complex Tel: 0491-2568055 e-mail: beml.gmpalakkad@gmail.com

International Business Division Tel: +91-80-2222 2730, 2223 3350 a-mail: office@export.beml.co.in

Technology Division Tel:+91-80-2296 3100-109 e-mail: office@ctd.beml.co.in

Trading Division Tel:+91-80-22963113 e-mail:office@trading.beml.co.in

Regional Offices :

Bilaspur Tel : 07752-252082 e-mail : bilaspur@rm.beml.co.in

Chennai Tel : 044-28270792 a-mail : chennai@rm.bemi.co.in

Dhanbad Tel: 0326-2205750 e-mail: dhanbad@rm.beml.co.in

Hyderabad Tel: 040-23227032 e-mail: hyderabad@rm.beml.co.in

Kolkata Tel: 033-22826314 e-mail: kolkata@rm.beml.co.in

Mumbai Tel : 022-22049490 e-mail : mumbai@m.bemi.co.in

Nagpur Tel: 0712-2248435 e-mail: nagpur@rm.beml.co.in

New Delhi Tel : 011-23316500 e-mail : delhi@rm.bernl.co.in

Ranchi Tel: 0651-2560370 e-mail: ranchi@rm.beml.co.in

Sambalpur Tel: 0683-2521604 e-mail: sambalpur@rm.beml.co.in



Date: 22/5/2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Satish Madhukar Khode**, (USN: 1KG16MBA25) student of Fourth Semester MBA, of KS School of Engineering and Management, has successfully completed the project titled **Digital Marketing Strategy, Tools And Its Impact On Customers** in our company with reference to the partial fulfillment of the requirements of the MBA Degree course of Visvesvarya Technological University.

All necessary details were provided from our side for the establishment of the project.

We wish him all the very best in his future endeavors.

Thanking you

With Regards For Oracle India Pvt Ltd.

Hoshi Ŋ

Manish Joshi Sr. Manager- Human Resources

Ref: SKPL: 003/2018

EKR

To

TO

The HOD K.S. School of Engineering and Management, Mallasandra, Kanakapura Road, Bangalore,

Subject : Permission for Project in Stovekraft Pvt Ltd

With reference to the above we have granted permission to Mr. Shankar R Registration No. 1KG16MBA26 for project work in Stovekraft Pvt Ltd for the period of 10 Weeks from 20th January 2018 as per the letter submitted by you.

For STOVE KRAFT PVT LTD

Authorised Signatory

Place: Bangalore Date : 20-01-2018



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47/1, Dickenson Road, Manipal Centre, Bangalore 560 042, India. T +91 80 2558 4242 F +91 80 2558 8594 E central@royalorchidhotels.com www.royalorchidhotels.com

Date: 30th Mar 2018

TO WHOM IT MAY CONCERN

This is to certify that Mr. Shashi Kumar A, a student of MBA 4 Semester, Reg. no. 1KG16MBA27 (Major in Finance), K S School of Engineering and Management Affiliated to VTU University has successfully completed Three months (From 5th January, 2018 to 28th Mar, 2018) long internship programme on Credit Management at Royal Orchid Central, a Unit of Icon Hospitality PVT Ltd. During the period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.

ROYAL

For Royal Orchid Central T R Nagesh

Unit Financial Controller

(A Unit of ICON Hospitality Pvt. Ltd.)



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213, 2nd Floor, 5th Main, Opp. Bank of India, RPC Layout, Vijayanagar, Bangalore – 560 104, INDIA. Ph: +91 80 2310 2812 | Mobile: +91 98446 75485 E-mail: group@sunness.in | Web: www.sunness.in CIN: U67120 KA2009 PTC050745

CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. SHILPA M (USN No.1KG16MBA28) from K.S.SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE has successfully completed her Internship/Project Training starting from 15-01-2018 to 24-03-2018 the project titled "A STUDY ON HUMAN RESOURCE DEVELOPMENT ACTIVITIES", BANGALORE.

She has exhibited a high level of enthusiasm and commitment in her work.

On completion of the project, she has submitted a written report of the above studies.

We wish all the best for her future Endeavour's.

Regards, *

BANGALORE.

RANJAN S Business Associate SUNNESS CAPITAL INDIA PVT. LTD. SUNNESS CAPITAL INDIA PRIVATE LIMITED # 20. 2nd Floor. 24th Main 5th Cross, Above Airtel, J.P. Nagar, 2nd Phase, Bangalore - 560 078. Ph.: 080-26582058 www.sunness.in BANGALORE CITY CO-OPERATIVE BANK LTD

3/7,3rd cross, 2nd block, opposite Ayyappa swami temple, Koramangala, Bangalore 560068 PH:080-23302009



Date:25/03/2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. ShivaShankara Reddy SS, Bearing USN No.1KG16MBA29, studying MBA in KS School of Engineering and Management-Bangalore, Under Visvesvaraya Technological University has successfully completed the Project report **"A Study on Lending policy at Bangalore City Co-operative Bank Ltd"**. For a Period of 10 weeks from19/01/2018 to 25/03/2018.

Thank You.

yours Sincerely, Nur

Mohith Singh. R

Bangalore City Co-operative Bank Ltd. H.R. Manager Koramangala Bengaluru - 560051.



Date: 31/03/2018

CERTIFICATE

This is to certify that Ms. Shwetha .P (Reg No – 1KG16MBA30) pursuing IV semester MBA at K S School of Engineering and Management affiliated to Visvesvaraya Technological University. As per her part of curriculum and for the partial fulfilment of degree of MBA degree she has successfully completed project at Featherlite Office System Pvt. Ltd, for the period of 15th January to 31st March 2018 on the study of "Receivable Management" under the Guidance of Mr.Nagarajan M, Dy.General Manager – Accounts & Finance.

During the period her performance and conduct was satisfactory.

Company wishes her all Success in her future career.

For Featherlite Office Systems Pvt. Ltd S **Project** Guide Bangalore Nagarajan M 4 Dy General Manger - Accounts & Finance

 FEATHERLITE OFFICE SYSTEMS (P) LTD

 # 83 & 88/1, Bangalore - Mysore Road,

 Heijala Circle, Ramanagaram Dist.

 Pin Code - 562 109.

 Fax: 28437771

 website : www.featherlite/umiture.com



#432-A 2nd Block, Kalyan Nagar, Bengaluru, 560043 Contact+918904904120 E-mail: info@fincoresoftwares.com www.fincoresoftwares.com

CERTIFICATE

This is to certify that the project titled "Cash budgeting models based comprehensive study" is submitted to Fincore in fulfillment of the requirement for the degree of MBA from KS SCHOOL OF ENGINEERING AND MANAGEMENT, Bangalore. The project is a bona fide record at work carried out by Miss. SUCHITRA BV (1KG16MBA31) under the supervision and guidance of Mr. Sagar VP, Operations manager, Fincore Bangalore between the periods from 15-01-2018 to 01-04-2018.

We are happy to recommend that Miss. SUCHITRA BV who completed the project successfully would be an asset to any organization that she is going to serve in future.

Regards,

Erg8.

Mr. Sagar VP ManagerOperations Bangalore-560 043



Hero

HERO MOTOR CORP.

#2/6, 4th Block, Chamrajpet, Bangalore, Karnataka 5600 02.

Phone number: +91 9066566317 Email:Herochamrajpet@heromotorcorp.in

Date: 15/01/2018 to 24/03/2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.Tahir Sharief (Reg No. 1KG16MBA32) Pursuing IV semester MBA at K.S School of Engineering & Management affiliated to VTU University. As part of his curriculum and for the partial fulfillment of MBA degree he has successfully completed Internship project at Hero Motor Corp., for the period of 10 weeks during the period of his internship project work with us his conduct was good.

We wish him all the very best for his future Endeavour.

for Hero Motor Corp.

(HR Manager)

SANJAY D





March 12, 2018

TO WHOMSOEVER IT MAY CONCERN

This to certify that Ms.Uma Devi M (USN No.1KG16MBA33) from K.S.School of Engineering and Management, Bengaluru, who is pursuing her IV Sem MBA, had undergone Internship between January 2018 and March 2018 in our HRD Department and completed the same.

During her internship, she studied the whole concept of HR under the guidance of the H.O.D.

During her stay with us, we found her a very good and fast learner and enthusiastic in knowing more about the practicality concerning her subjects.

We wish her Good Luck,

FOR PROMAC ENGINEERING INDUSTRIES LTD.

K.M.S. Simha Knumar

Sr. Manager - HRD

Turnkey Projects : Cement Plants, Bulk Material Handling Systems for Power Plants & Other Process Plants



GE Industrial Solutions

GE India Industrial Pvt. Ltd. Plot No. 42/1 & 45/14, Electronic City - Phase II Bangalore - 560 100.

Tel. : +91 80 4111 3000 Fax : +91 80 2852 8469 / 552

30-march-2018

TO WHOME SO EVER IT MAY CONCERN

This is certify that **Jayasree v** bearing register number **1kg16MBA34**, student of **k. s. school of engineering & management**, department of human resource management, Bangalore had undertaken an internship project at our organization . from 15-jan-2018 to 30- march-2018. she has completed the project report and organization study successfully.

During the project we found her to be diligent and hardworking

We wish her all the best in her future endeavors.

NO US For GE India Industrial Pvt Ltd

Ashok Dutt Human Resources Manager





Karnataka State Financial Corporation KSFC Bhavan No 1/1 Thimmaiah Road Bangalore 560051 Phone:22263355 Email: admin@ksfc.in www.ksfc.in

Ref: F005/PR/HR/1062/18

05/04/2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Vishal.V Bearing USN No.1KG16MBA35, studying MBA in KS School of Engineering and Management-Bangalore, Under Visvesvaraya Technological University has successfully completed the Project report "A Study on Asset-Liability and Fund Management at Karnataka State Financial Corporation". For a Period of 10 weeks from 22/01/2018 to 31/03/2018.

We wish him the best for his Future Endeavors.

Thanking You.

Yours's Sincerely,

Ranjith Kumar.S

Assistant HR, KSFC

Karnetaka State Financial corporation. Assistant H.R. \$1/1 , Thimmalah Read Vasant Nagar. Bengaluru-560051.



Date: 31/03/2018

INTERNSHIP CERTIFICATE

TO WHOME SO EVER IT MAY CONCERN

This is certify VYSHALLR (USN.1KG16MBA36) student of K.S. School of Engineering and Management Bangalore. VTU has successfully completed her internship training the project titled, "A STUDY ON CREDIT APPRAISAL AT VIJAYA BANK", Bangalore from 16-01-2018 to 31-03-2018.

The project on evaluation fulfills all the stated criteria and the student's findings are his original work, we wish her all the best for her future endeavors.

MANAGER

S KMF ಕರ್ನಾಟಕ ಸಹಕಾರಿ ಹಾಲು ಉತ್ಪಾದಕರ ಮಹಾಮಂಡಳಿ ನಿಯಮಿತ Karnataka Co-Operative Milk Producer's Federation Limited



No.2040/Adm-1/2018

Date: 02.04.2018

CERTIFICATE

This is to certify that **Ms.Yashaswini S** studying M.B.A at K.S.School of Engineering and Management, Mallasandra,Kanakapura Road Bengaluru, has successfully completed her project work on **"Distribution Channel Network at Karnataka Co-operative Milk Federation LTD"** for a period from 15.01.2018 to 31.03.2018. This certificate is issued for the purpose of academics only. Her conduct during this period is found to be satisfactory.

Your's faithfully,

for Karnataka Co-Operative Milk Federation Ltd.,

Sr. Deputy Director (Admin) Sr. Deputy Director(^ Karnataka Milk Federatio. Bangalore - 29.

ช้.อo.อฮฺ xołter, eoಚ ಚcบ xozi, : 2915, เลา อo.ळ่เช. อbcrña dxj, เอกหดง – 560 029. KMF Complex, P.B. No. 2915, Dr. M.H. Marigowda Road, Bengaluru - 560 029. Phone : 080-26096800, 25536625, Fax : 25536105. e-mail : ps.md@kmf.coop / admin@kmf.coop / finance@kmf.coop / marketing@kmf.coop / purchase@kmf.coop / mis@kmf.coop ah@kmf.coop / step@kmf.coop / ct@kmf.coop / qc@kmf.coop / Website : www.kmfnandini.coop



H. O. No. 5, 9TH CROSS, N. R. COLONY, BANGALORE - 56 0 019.

No.

No.STCB/CO-15/2018-19

13.4.2018

Date

PROJECT COMPLETION CERTIFICATE

We hereby certify that **Mr.Bharath.J**, Registration No:1KG16MBA38, MBA student of Visvesvarya Technological University, Belagavi, K.S.School of Engineering and Management, No.15, Mallasandra, Off Kanakapura Road, Bangalore – 560 109, has satisfactorily completed his project work on **"Revenue and Expenditures of Sree Thyagaraja Co-operative Bank Ltd.,"** in our Bank successfully for a period of 10 weeks from 19.01.2018.

During his project work in our Bank we found his character & conduct satisfactory.

We wish him all the best in his future endeavors and career.

Regards,

Por Bies Thyagataja Co-op Bank Lie

etel Manege

VODAFONE INDIA SERVICE PRIVATE LIMITED SCD 127489283 DIST: SRI DEVIKA RANI ENTERPRICES HAROHALLI, KANAKAPURA (TQ) RAMANAGARA-562112



REF:VODA/HRD/Trainee Ltr.

DATE:06/04/2018

TO WHOME SO EVER IT MAY CONCERN

This is to certify Mr. Anil N, (1KG16MBA39) student of 4th sem MBA, KS School of Engineering and management science, has successfully completed his project titled "BRAND AWARENESS OF VODAFONE INDIA SERVICE PVT,LTD." at vodafone company under my guidance from 15 Januvary-2018, to 31 march 2018.

He has shown the keen interest in the subject and has taken immense care in gathering data and information and the project has been completed by him to our utmost satisfaction. During his association with us, his conduct and character were exemplary.

For : Vodafone India service Pvt Ltd

(Bangalore EAST Zone)

Mr.-RAGHU.T.

(AREA Sales Manager)

DISTRIBUTER

SRI DEVIS A DATE DATE DATE DATE DATE DATE DATE MINI STORE Harol alli, Anekal Main Road, Kanakapura Takuk, Ramanagara Dist 562112 POS Code : 142642206



Rapsri Engineering Products Co. Ltd. Reg Plant : Plot No. 318F, KIADB Industrial Area Harohalli II Phase, Bannikuppe Village, Harohalli, Kanakapura Taluk, Ramanagar Dist.-562 112 Ph : 80-67228244, 67228237 Fax : +918 06 7228232 www.rapsrl.com

29TH May 2018

TO WHOMSOEVER IT MAY CONCERN

This is certify that Mrs. Deepa B. G (Reg. No-1KG16MBA40) pursuing IV semester MBA at M/s. K S School of Engineering & Management affiliated to VTU University. As part of her curriculum and for the partial fulfillment of MBA degree she has successfully completed project at M/s. Rapsri Engineering Product Company Ltd, for the period of 15th January 2018 to 31st March 2018 on "Employee Health and Safety Measures at Rapsri Engineering Products Co. Ltd."

During the period of the Internship project work with us her conduct was good.

We wish her all the very Best for her further Endeavour.

For Rapsri Engineering Products Co. Ltd.

Manjunatha S M Associate Manager- HR, IR & Admin

President : 26601631 Managing Director : 26601291 Manager (Adm. & Est.) : 26617441 EPBX No. 22427940, 41, 42, 47 Fax : 26601291



The Bangalore, Bangalore Rural & Ramanagara District Central Co-operative Bank Limited

TO WHOMSOEVER IT MAY CONCERN

This to Certify that Mr. Mallikarjuna S, (Register No.161NCOM015) pursuing IV Semester MBA, at K.S. School of Engineering and Management, Bangalore, has successfully completed the Project Report on "Credit Risk Management" in Bangalore, Bangalore Rural & Ramanagara District Central Co-Operative Bank Ltd., for the period of 15th January 2018 to 31st March 2018.

Mr. Mallikarjuna S, was a deligent trainee. He used time effectively for enhancing the learning opportunity.

Chief Executive Officer

ಬೆಂಗಳೂರು, ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ ಮತ್ತು ರಾಮನಗರ ಜಿಲ್ಲಾ ಕೇಂದ್ರ ಸಹಕಾರ ಬ್ಯಾಂಕ್ ನಿಯಮಿತ

ಮುಖ್ಯ ಕಛೇರಿ : ನಂ. 6, 'ಲಕ್ಷ್ಮೀಸದನ', 5ನೇ ಮುಖ್ಯರಸ್ತೆ, ಚಾಮರಾಜಪೇಟೆ, ಬೆಂಗಳೂರು - 560 018



135, 11 & 12 KOLLARINDUSTRIAL AREA BIDAR INDUSTRIAL AREA BIDAR Karnataka INDIA 585403.

PH:080-27798456 7892131170

Date:31-03-2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms.NAVEEN C (Reg.No-1KG16MBA42) pursuing IV semester MBA at M/s. K S School of Engineering & Management affiliated to Vishweshwaraya Technological University. As part of her curriculum and for the partial fulfilment of MBA degree he has successfully completed Project in THE COCO-COLA COMPNY LTD for the period of 15th January 2018 to 31st March 2018 on the study of EFFICTIVENESS OF BRAND POSTIONING with special reference to The Coco-Cola Compny Itd During the period of her project work with us her conduct was good.

We wish him all the very best for her future Endeavour.

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Traffic Signal Co-ordination by Progression Method Along The Stretch of Banashankari to BTM is a bonafide work carried out by

B Vinod Kumar	1KG13CV007
Menni Jagadeesh	1KG13CV030
Naveen Kumar N	1KG13CV034
Anil Kumar MS	1KG13CV063

in partial fulfilment for the award of Batchelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Sauthe B.4 Name and Signature of

Internal Guide

malle

Head of the Department Professor & Head Dept. of Civil Engineering K.S. Group of Institutions Bangalore-560 062.

Dr. S. Principal/Director K. S. School Of Engineering & Manager K.S. School of Engineering & Management BENGALURU -: 56C 1

University Examiners:

mittelle

Name and Signature of Examiner-1

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **Rainwater Harvesting System for K.S.School of Engineering and Management** is a bonafide work carried out by

Pramodh Kumar N	1KG12CV411
Shravanthi D	1KG13CV050
Ashwini K P	1KG14CV404
Pavan Kumar M	1KG14CV415

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Dr. Vyshal: Vyshal.

mAkelle

Name and Signature of Internal Guide

Head of the Department

Dr. S. N. SRIDHARA Principal/Director K.S. School Of Engineering & Menage ment BENGALURU 560 109

Principal/ Director

University Examiners:

Witcelle Ba 2376/17 Bar Akelle

Name and Signature of Examiner-1

Professor & Head Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certíficate

This is to certify that the project work entitled Implementation of advance traffic management system at silk board function Bangalore is a bonafide work carried out by

ABHISHEK B	1KG14CV402
JAIPRAKASH NARAYAN T K	1KG14CV407
KEERTHI T S	1KG14CV408
MADHU A M	1KG14CV411

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

SWATHL MS.

Name and Signature of Internal Guide

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Head of the Department K.S. Schor'

Drin OpaM DGRIDHARA Dept. of Civil Engineering X. S. School Of Engineering S Menegement K. S. Group of Institutions X. S. School Of Engineering S Menegement Principal/Director ering & Management BENGALURU: 560 109. .-iule-560 062.

University Examiners:

Whelle 23THIN Do Vijayaleski Allelle Name and Signature of Examiner-1

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Civil Engineering

Certíficate

This is to certify that the project work entitled **Identification**, Analysis and **Remedial measures of Black Spots- A Case Study from Madiwala to Electronic city**, **Bangalore** is a bonafide work carried out by

A Ashwini	1KG13CV001
Amit Kumar	1KG13CV004
Harish Kumar	1KG13CV015
Shikhar Shukla	1KG13CV049

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Savitha B.G.

Saine B.4 Name and Signature of Internal Guide

WAlle 23

Head of the Department Professor & Head Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062

Principal/Director ARA

Principal/Director

K. S. School Dr Engineering 8 Manage BENGALURU=:530 109.

University Examiners:

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "ANALYSIS AND DESIGN OF MULTI-STOREYED RESIDENTIAL BUILDING USING COMMERCIAL SOFTWARE" is a bonafide work carried out by

SNEHA.S. TOGGI	1KG12CV041
KAILASH.N	1KG13CV019
RAKESH.R	1KG13CV044
SUSHMA.Y. A	1KG14CV421

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering**" of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Mr. Veerendra Kumar.M

Associate Professor Dept. of Civil Engg. KSSEM, Bengaluru

University Examiners:

Name and Signature of Examiner-1

Hebepstratic bepain freing K.S. Group of Institutions K.S. School of Engineering & Management De Vis Basterburg 5600020. K.S.

Dr. Vijavalakshmi Akella

Professor and Head Dept. of Civil Engg. KSSEM, Bengaluru

Dr. Brincipal/SRIDHARA ment Principal/Director K. S. School Of Engineering & Managomer BENGALURATES60 109.

> Principal KSSEM, Bengaluru

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **"OPTIMIZATION OF MIX DESIGN FOR SELF COMPACTING CONCRETE"** is a bonafide work carried out by

HARISH J1KG13CV014MANJUNATH P B1KG13CV028MOHAN KUMAR K R1KG13CV031ARUN KUMAR H M1KG13CV061

in partial fulfilment for the award of **"Bachelor of Engineering in Civil Engineering"** of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

for 8. wordent

Name and Signature of Internal Guide

Mr. Manjunath B

Mr. Thejas C M

Assistant Professors Dept. of Civil Engg. KSSEM, Bengaluru

University Examiners:

whether 16/17

Name and Signature of Examiner-1

uttelle

Head of the Department Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Dr. VijayalakshmiAkella

Professor and Head Dept. of Civil Engg. KSSEM, Bengaluru

Principal/ Director

Dr. S N Sridhara

Principal KSSEM, Bengaluru

Ken

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **Design of a Sewage Treatment Plant at X.S. School of Engineering and Management** is a bonafide work carried out by

MADAN GOPAL V	1KG13CV026
RAJESH R KULKARNI	IKG13CV043
RAVI KIRAN A	1KG13CV045
RAVI KIRAN SHASTRI	1KG13CV046

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

SWATHS. M.S.

KAVYA . M Ke 10

Willelle

Swatter Name and Signature of Internal Guide

Name and Signature of Internal Guide

Professor & Head re of Dept. of Civit Indifference K.S. Group of Ingineering & Management Bangalore-560 062.

University Examiners:

hittelle 23/417

Name and Signature of Examiner-1

Name and Signature of Examiner-2

Robith GA

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Numerical validation of experimental results for bearing capacity of vertical skirted footing on c-o soil is a bonafide work carried out by

> **M PRAVEEN KUMAR** NANDAN R PRAVEEN SHAMBHAVI B S

1KG13CV025 1KG13CV033 1KG13CV039 1KG13CV048

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

AREKAL VIJAY

Name and Signature of Internal Guide

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Principal/

Professor & Head Head of the Department K.S. Group of Institutions K.S. School of Engineering & Managem Sn School Of Engineering B Mo.

Universita Balanin 59:062.

Dr. S. NDIBRODHARA Principal/Director

BENGALURU=560 1:

Name and Signature of Examiner-1

Name and Signature of Examiner-2

phith. CA

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Effect of Super Plasticizers on Properties of Concrete" is a bonafide work carried out by

Nithin G.R 1KG13CV036 Vijaya Saagar A 1KG13CV059 Manoj Kumar J.D 1KG13CV062

in partial fulfilment for the award of Batchelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Name and Signature of Industrial Guide

nAkelle Profess of 3 Head

Principal/

Dept. Depiaitmegineering Director K.S. Group of Institutions. N. SRIDHARA K.S. School of Engineering & Mapagemental/Director Bangalore-560 062 tion Of Engineering & Management

BENGALURU-560 109.

University Examiners:

wall

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Numerical Simulation of Experimental Results for Bearing Capacity of Internal Inclined Skirted Footing on c- ϕ Soil is a bonafide work carried out by

Madhurya S 1KG15CSE07

in partial fulfilment for the award of Master of Technology in Structural Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Arekal Vijay Internal Guide

University Examiners:

1. Melle

Dr.Vijayalakshmi Akella

Head of the Department

Dr. S. N. Sridhara Principal/Director Dr. S. N. SRIDHARA

Professor & Head Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management ENGALURU=560 109. Bangatore-560 up2

KAVYASHREE R.R.

AREKALVISAY MA 12/8/1

Name and Signature of Examiner-1

Name and Signature of Examiner-

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Comparitive study on Tubular Structure subjected to Mega and Diagrid Bracing System" is a bonafide work carried out by

Ranjitha. S 1KG15CSE15

in partial fulfilment for the award of Master of Technology in Structural Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Naveena M.P MA

Name and Signature of Internal Guide Wille

Head of the Department Professor & Head Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalure-56: c62.

Principal/ Director Dr. S. N. SRIDHARA Principal/Director Y. S. School Of Enginatoring & Mar. - Amer' BENGALURU=:560

University Examiners:

Name and Signature of Examiner-1

1/2017

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **"Optimum Positioning of Shear Wall** in High Rise Building Subjected to Seismic Loads" is a bonafide work carried out by

Kruthi P 1KG15CSE06

in partial fulfilment for the award of Master of Technology in Structural **Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

AMRUTHA D. SHENOY Ameridha. D

Name and Signature of Internal Guide

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Head of the Department Professor & Head Dept. of Civil Engineering K.S. Group of Institutions ncement \$ \$ \$ colofEngin.

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Principal/Director K. S. School III Engineering & Management

University Examiners:

09/09/12

mikelle 9/9/17

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Lateral Strut Analysis of Masonry Infill Walls With and Without Openings" is a bonafide work carried out by

Indrajeet.C.Bagi

1KG15CSE05

in partial fulfilment for the award of Master of Technology in Structural Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of Internal Guide

malle

Head of the Department Professor & Head Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangatore-569 962

Principal/ Dr. S. Nois SRIDHARA Principal/Director V. S. School Of Engineering & Manag-BENGALURU=:560 109.

University Examiners:

11/2017

Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mattasandra, off Kanakapara Road, Bergatura-560109



Department of Computer Science Engineering

Certificate

This is to certify that the project work entitled An Autonomous Sailing Robot for Underwater Exploration is a bonafile work carried out by

> Priyadarshini S Privakshitha U Raghavi M

1KG13CS069 1KG13CS070 1KG13CS074

in partial fulfilment for the award of Bachelor of Engineering in Computer Science Indincering of Visvesvaraya Technological University, Belagavi, during the year 2014-17. It is cortified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement in respect of project work prescribed for the degree.

AName and Signature of N Internal Guidel

Name and Signature of Brite Principal Principal Dr. B. R. R. Population Dr. S. N. SRIDHARA Professor & HaD, Dept of CSE Principal/Director K 5 School of Englocenno & S-School Of Englosering 5 Macager Bengature-500109 BENGALURU-560 109.

University Examiners:

king R.S. Versellin

Name and Signature of Examiner-1

11th 2 4/6/2017

14 Route Portan JR Name and Signature of Examiner-2

K S SCHOOL OF ENGINEERING AND MANAGEMENT

#15, Mallasandra, off. Kanakapura Road, Bengaluru-560109 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



2016-2017

CERTIFICATE

Certified that the project work entitled "DESIGN AND IMPLEMENTATION OF A FRAMEWORK FOR CONTROLLING DATA DEDIPHICATION IN ENCRYPTED BIG DATA" carried out by Mr. MANJUNATH R S. bearing USN IRGI5SCS01, a bonalide sudent of K S Nebool of Engineering & Management, Bengaloro to partial fullification for the award of Master of Technology in Computer Science and Engineering, of the Visvesvaraya Technological University, Belagasi during the year 2016-2017 ft is certified that all corrections/suggestions indicated for the Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the neadence requirements in respect of the project work prescribed for the M Tech degree.

B. K. Rag Eralchi Dr. B. K. Rauhaycudta

Professor & Helly Deff The Str. Professor & Helly Deff The Str. Professor of Engineering & Management Bengskin optitus

Name of the Examiner

Dr. S.N. Sridhurn Principal/Hirector Dr. S. M. SRIDHARA Principal/Director K.S. School Of Engineering & Management BENGALURU=560 109

Signature with Date:

1.

K S SCHOOL OF ENGINEERING AND MANAGEMENT

#15, Mallasandra, off. Kanakapura Road, Bengaluru-560109 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



2016-2017

CERTIFICATE

Certified that the project work entitled "DESIGN AND IMPLEMENTATION OF A FRAMEWORK FOR CONTROLLING DATA DEDIPHICATION IN ENCRYPTED BIG DATA" carried out by Mr. MANJUNATH R S. bearing USN IRGI5SCS01, a bonalide sudent of K S Nebool of Engineering & Management, Bengaloro to partial fullification for the award of Master of Technology in Computer Science and Engineering, of the Visvesvaraya Technological University, Belagasi during the year 2016-2017 ft is certified that all corrections/suggestions indicated for the Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the neadence requirements in respect of the project work prescribed for the M Tech degree.

B. K. Rag Eralchi Dr. B. K. Rauhaycudta

Professor & Helly Deff The Str. Professor & Helly Deff The Str. Professor of Engineering & Management Bengskin optitus

Name of the Examiner

Dr. S.N. Sridhurn Principal/Hirector Dr. S. M. SRIDHARA Principal/Director K.S. School Of Engineering & Management BENGALURU=560 109

Signature with Date:

1.

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled Design and Implementation of Patient Monitoring System Using Steady State Visual Evoked Potential Signal Based on LABVIEW is a bonafide work carried out by

Bhavya. S	1KG13EC011
Chethana H.G	1KG13EC016
Harathi Devi. Nalla	1KG13EC026
Harsha K.M	1KG13EC028

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Shalini Shravan

Name and Signature of Internal Guide

Head of the Department

Dept. of Electronics & Communication Engineering K.S. Group of Institutions - Bangalore-560 062.

Principal/ Director Dr. S. N. SRIDHARA Principal/Director K.S. School of Engineering & Management K. S. School Of Enginzering & Management BENGALURU: 560 109.

University Examiners:

Name and Signature of Examiner

Dr. HSM ble ct dy Name and Signature of Examiner-2

2461

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled "Design and Implementation of IoT Based Digital Water Supply Management and Billing System" is a bonafide work carried out by

Alluri Mahesh	1KG13EC004
B Vaishnavi	1KG13EC009
C Vani	1KG13EC013
K Lakshmi Sagar	1KG13EC036

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

>

Mrs Renuka V. Tal Assistant Professor

Dr. Girish Affimarad Head of the Department Professor & Head Dept. of Electronics & Communication Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Dr. S.N. Sridhara Principal/Director

Dr. S. N. SRIDHARA Principa!/Director K. S. School Of Engineering & Managerers BENGALURU::560 105

University Examiners:

Name and Signature of Examiner-1

23/6/12

Ileda

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled Implementation of an Indoor Navigation Robot for Visually Impaired and New Visitors is a bonafide work carried out by

> Rahul Patil Swaroop Dixit S Ujwal L Hemanth M. V.

1KG13EC082 1KG13EC108 1KG13EC111 1KG14EC403

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2016-2017. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

irector K. S. School Of Frainparing & Menagement BENGALURU-560 109. Primaleiba Name and Signature of Professor & Guide Dept. of Electronics & Communication Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062. University Examiners: Name and Signature of Examiner Name and Signature of Examiner-2 HSM ledd.

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Implementation of a Human Eye movement Controlled Wheel Chair with Fall Detection using Raspberry Pi is a bonified work carried out by

Prudhvi P	1KG13EC080
Salla H Lokesh	1KG13EC095
Sandeep Mani	1KG13EC096
Vinay Kumar M C	1KG14EC409

in partial fulfilment for the award of Batchelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Shanthala. G.M.

Name and Signature of Guide

University Examiners:

Principal/ Director

Head of the Department Prefessor & Head Dept. of Electronics & Communication Engineering K.S. Group of institutions

Bangalore-560 062.

Dr. S. N. SRIDHARA Principal/Director K.S. School of Engineering & Management K. S. School Of Engineering & Mazar

1.1

Name and Signature

DV. HSM Redd

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled **Implementation of Stereo Vision** Based Robot for Environment Mapping is a bonafide work carried out by

> Gowtham.R Nanda Prasad.G Prakash B Rakesh Kumar.V

1KG12EC032 1KG13EC065 1KG13EC077 1KG13EC087

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2013-14. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

BAQU Name and Signature of Guide Head of the Department D Principal (Ravikiran B.A.) Principal/Director Professor & Het K. S. School Of Engineering & Management Dept. of Electronics & Communication Engineering BENGALURU ... 560 109. K.S. Group of Institutions University Examiners: K.S. School of Engineering & Management Bangalore-560062. 123/61/2 Name and Signature of Examiner-1 Name and Signature of Examiner-2 tony Reddy

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled **Design and Implementation of Voice, Touch and Gesture based "Natural User Interface"(NUI)** is a bonafide work carried out by

> Arpitha D Apthi Chaitra T P Harish Kumar P Jayabharathi B S

1KG13EC007 1KG13EC014 1KG13EC027 1KG13EC034

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgavi, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Principalio Director Name and signature of Head of the K.S. School of Eliginatoring & Management Department Internal Guide H. of Electronics & Communication Engineering K. S. School of Engineering & Management University Examiners: Bangalore-560 109 Name and Signature of Examiner-1 Name and Signature of Examiner

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled **Design and Implementation of Embedded System Based Autonomous Fire Fighter Robot** is a bonafide work carried out by

Harshana P	1KG13EC029
Harshitha K	1KG13EC030
Manasa L	1KG13EC052
Raghav R Bhaskar	1KG12EC075

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

University Examiners:

Name and Signature of Examiner-1

de Head of the Department Principal/Director Professor & Head **Principal/Director** Dept. of Electronics & Communication of Engineering & Management K. S. School of Engineering & Management Sc

Bangalore-560 109

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Design and Implementation of Surveillance Robot for Outdoor Security is a bonafide work carried out by

Meghana S	1KG13EC056
Nikhil Teja V	1KG13EC069
Raghuveer Murali	1KG13EC081
Sanjana S	1KG13EC097

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 206-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Signature of Internal Guide

xell Dept. of Electronics & Communication Engin N. of Electronics a Communication & Maragenering & Management K. S. School of Engineering & Maragenering & Management Bangalore-560 109

University Examiners:

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

Certificate

DESIGN AND IMPLEMENTATION OF REAL TIME SIGN LANGUAGE DETECTION AND CONVERSION TO SPEECH SYSTEM

This is to certify that the project work entitled DESIGN AND IMPLEMENTATION OF REAL TIME SIGN LANGUAGE DETECTION AND CONVERSION TO SPEECH SYSTEM is a bonafide work carried out by

Ramya R	1KG13EC089
Rohith Kumar K.J	1KG13EC090
Sundari P.M	1KG13EC103
Usha R	1KG13EC112

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and** communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Head

mxcelle

Head of the Department essor & Head Dept. of Electronics & Communication Engineering & Manager K. S. School of Engineering & Manager Bangalore-560 109

University Examiners:

Name and Signature of Examiner-1

No. 15, Mallasandra, Off Kanakapura Road, Bangalore-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled "Design and Implementation of Smart Ration Distribution and Controlling System" is a bonafide work carried out by

> Kalluru Sai Kumar Naidu Mukesh N Murthy S V C Anand Babu

1KG13EC040 1KG13EC059 1KG13EC062 1KG11EC080

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Ms.Arpitha Beerala Asst. Professor Department of ECE KSSEM, Bangalore

Dr. Girish VAttimarad Professor and HOD Department of ECE Communication Englished Director Dept of Encine and Communication Englished Director Dept of Encine and Communication Englished Director Bangalore-560 062 K. S. School of Engineering & Managem Bangalore-560 062 Bangalore-560 109

University Examiners:

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled **Implementation of Effective Blood Bank Management using IoT** is a bonafide work carried out by

J.Pallavi	1KG13EC032
Karthik. M. B	1KG13EC041
Madhura. S	1KG13EC047
Monika. K. J	1KG13EC058

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

marcell PrincipaliodDirector Name and Signature of Head of the Department K.S. School of Engineering & Management Guide Dept. of Electronics & Communication Pengaleran 560 062 K. S. School of Engineering & Management Bangalore-560 109 University Examiners: Name and Signature of Examiner-1 Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled **Design and Implementation of Universal ATM Card using RFID** is a bonafide work carried out by

Ananthaneni Padmaja11Maheswari Maddineni11Malathi MM11Prashanthi Pallineni11

1KG13EC005 1KG13EC046 1KG13EC049 1KG13EC072

in partial fulfilment for the award of **Batchelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr. Chethan Sharma.P Assistant prof. & Guide

yxelle

a.P Dr. Girish.V.Attimarad Principal Suithactor de Prof. Head of Pept KCF School of Engineering & Management Dept. of Electronics & Communication Engine K. S. School of Engineering & Management Bangalore-560 062 Bangalore-560 109

University Examiners:

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled **IoT Based Smart and Secure Home Design Using Solar Powered devices** is a bonafide work carried out by

Divya.M	1KG13EC020
M.Akhil Naidu	1KG13EC061
T. Sree Pallavi.	1KG13EC109
Sunil Sangappa Kagal	1KG13EC105

in partial fulfilment for the award of **Bachelor of Engineering in Electronics And Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and gnature of Guide

Head of Department

Principalecoirector

Professor & Head K.S. School of Engineering & Management Dept. of Electronics & Communication Engineering Bangalore-560 062 K. S. School of Engineering & Management Bangalore-560 109

University Examiners:

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled "Histogram Based Automated Visual Inspection System for Textile Industry using FPGA" is a bonafide work carried out by

Sumanth.C	1KG11EC071
Manjunatha.B.C	1KG11EC402
Aishwarya.M.Raman	1KG12EC004
Suraj.S	1KG13EC106

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

MKelle

The of Head of the Department Professor & Head Dept. of Electronics & Communications & Management K. S. School of Engineering & Management Bangalore-560 109

University Examiners:

Name and Signature of Examiner-1

Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled " **Design and Implementation of Electric Meter Reading, Billing, Theft detection unit And Control**" a bonafide work carried out by

> Divya L Divya R Harshitha R Manushri K U

1KG13EC019 1KG13EC021 1KG13EC031 1KG13EC055

in partial fulfilment for the award of **Bachelor of Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Guide

University Examiners:

Head of the

Head of the Princip dir/noiparctor Departments of Head Dept. of Electronics & Comminipation Baylow February Management K. S. School of Engineering & Massion 60 062 Bangalore-560 109

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled **Design and Implementation of a Programmable Smart Stick for Visually Impaired using ARM7** is a bonafide work carried out by

Rajesh C S	1KG10EC084
Suhas R M	1KG13EC101
Sunil Kumar S	1KG13EC104
Suresh J	1KG13EC107

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-2017. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Dr. Girish V Attimarad Professor and HOD Internal Guide

Uncelle

Dr. Girish V Attimarad Professor and HOD Professor & Heal.S. School of Engineering & Management K. S. School of Engineering & Management Bangalore-560 109

University Examiners:

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electronics & Communication Engineering

Certificate

This is to certify that the project work entitled RF Based Speed Anti-Violation System with Insurance Detection using IoT is a bonafide work carried out by

> Nagendra V Rakshitha G Siddharth Nambiar KT Vyshnavi Lakshmi Burle

1KG13EC063 1KG13EC088 1KG13EC099 1KG13EC116

in partial fulfilment for the award of Bachelor of Engineering in Electronics & Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr. Manu DK Associate Professor Dept. of ECE KSSEM

Principasticitation Head of Debartment Dr. Girish. V CommunicativesE School win Engandening & Management uept.1965 of of Engineering & Manageme & Singa Vore-560 062 Bangalore-560 109

University Examiners:

Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Electronics & Communication Engineering

Certíficate

This is to certify that the project work entitled **Design and implementation of Internet of Things (IoT) based metal and non-metal segregation** is a bonafide work carried out by

> Ashwini B P. Hari Krishna Prakash Kumar Sah Manalee Bhushan

1KG10EC009 1KG12EC065 1KG12EC068 1KG13EC050

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgavi, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

mittelle

Head of the Department Principarts/ Director ProfessorSchool of Engineering & Management K. S. School of Engineering & Management Bangalore-560 109

University Examiners:

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled "Design and Implementation of a Real-time Surveillance Mini-Rover based on Python-Java using Raspberry Pi 3" is a bonafide work carried out by

Anirudh.A.S	1KG13EC006
Atul Kumar	1KG13EC008
Mukesh Pandey	1KG13EC060
Partha Sarathy .G	1KG12EC067

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgavi, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Head of the Department Principal / K. S. School of Engineering & Management K. S. School of Engineering & Management Bangalore-560 109

University Examiners:

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Design and Implementation of Acoustic Image Enhancement Using Underwater Vehicle is a bonafide work carried out by

> RAJESH S BHARATH N L GOVIND RAJU T PRASHANTH KUMAR N

1KG13EC085 1KG14EC401 1KG14EC402 1KG14EC405

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-2017. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

ARTHIK

Dr. Karthik P Professor, Dept. of ECE Internal Guide

notalle

Dr. Girish. V. Attimarad Professor and HOD, ECE^d K.S. School of Engineering & Management Dept. of Electronics & Communication Engine Bangalore-560 062 K. S. School of Engineering & Manageme Bangalore-560 062 Bangalore-560 109

University Examiners:

Name and Signature of Examiner-1

Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled **Design and Implementation of Voice Operated system for Physically Challenged People** is a bonafide work carried out by

Kondepati Harshitha	1KG13EC042
Nesara R	1KG13EC068
Pooja Yadav S	1KG13EC075
Jeevitha S	1KG13EC121

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of **Visvesvaraya Technological University**, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Internal Guide

Head of the De Front of Electronics & Commun gal of Engineering & Management S. School of Engineering & Manag Bangalore-560 062 Bangalore-560 109

University Examiners:

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Implementation of Smart Parking System using Arduino is a bonafide work carried out by

> Neethu R Parnitha Mahesh Prashant D Sumanth Kamath V

1KG13EC066 1KG13EC073 1KG13EC078 1KG13EC102

in partial fulfilment for the award of Bachelor of Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature

of Guide

Head of ther & Head Dept. of Electronics & Communication Engineering & Management K. S. School of Engineering & Manage Bangalore-560 062 Bangalore-560 109

University Examiners:

Name and Signature of Examiner-2

Design of Electrical Power Theft Detection System and Wireless Meter Reading Using ATMEGA 32

A Project Work submitted to



Visvesvaraya Technological University In partial fulfilment of the requirements For the award of degree of

Bachelor of Engineering In Electrical and Electronics Engineering

Submitted by

Anusha N1KG13EE002Chaithra N1KG13EE009Dishashree T N1KG13EE014Murali P1KG13EE027

Under the Guidance of

Mrs. PRATHIKSHA

Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2016-17

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled **Design of Electrical Power Theft Detection System and Wireless Meter Reading Using ATMEGA 32** is a bonafide work carried out by

Anusha N	1KG13EE002
Chaithra N	1KG13EE009
Dishashree T N	1KG13EE014
Murali P	1KG13EE027

in partial fulfilment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

(PRATHIKSHA)

Prothibles al stall +

Name and Signature of Internal Guide

University Examiners:

B. Rr

Head of the Department Professor & Head Dept. of Electrical & Electronics Engineering

R.R. ML

K.S. School of Engineering & Management Bangalore-560 062.

Principal/Director Dr. S. N. SRIDHARA Principal/Director School Of Engineering & Management School Of Engineering & Management

Name and Signature of Examiner-2

DY. B.R. NATARAJAOV

Design and Development of Microcontroller based Auto-Start Three-Phase Induction Motor Protection Unit

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Cherukuri kireeti1KG13EE011Jyothi. Y1KG13EE017Mellemputi Manisha1KG13EE021Prasad. M1KG14EE408

Under the Guidance of

Dr. B. R. Natarajan Professor and Head Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062 2016-17

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Design and Development of Microcontroller Based Auto-Start three-phase Induction Motor protection Unit is a bonafide work carried out by

Cherukuri Kireeti	IKG13EE011
Jyothi. Y Mellemputi Manisha	1KG13EE017
	1KG13EE021
Prasad. M	1KG14EE408

in partial fulfilment for the award of Batchelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

B.R.M Dr. B.R.NATALOY Name and Signature of Head of the Internal Guide Principal Profo Department Director Dept. of Electrical & Electronics Engineering r. S. M. SRIDHARA University Examiners: Principal/Director K.S. Group of Institutions K.S. School of Engineering & Management chool Bt Engineering & Management Bangalore-560062. BENGALURU::560 109. O.R. DY B.R. NATARATAN -DHANA AKSMMI Name and Signature of Examiner-1 Name and Signature of Examiner-2

Design and Development of Micro Grid for Generation of Small Power Using Distributed Generation in Standalone Mode

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Polarpu Varun Chowdary Sachin H Abhishek D Chethan P

1KG12EE025 1KG12EE030 1KG13EE001 1KG13EE012

Under the Guidance of Ms.Gousia Sultana Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2016-17

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Design and Development of Micro Grid for Generation of small Power using Distributed Generation in Standalone Mode is a bonafide work carried out by

Polarpu Varun Chowdary	1KG12EE025
Sachin H	1KG12EE030
Abhishek D	1KG13EE001
Chethan P	1KG13EE012

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

(GOUSIA SULTANA) hous - Sultaa

Name and Signature of Internal Guide

A.R.N

Principal/

Head of the Head Dept. of Electrical & Electronics Engineering Dr. S. N. SRIDHARA K.S. Group of Institutions

Principal/Director K.S. School of Engineering & Management. School Of Engineering & Management BENGALURU::560 109.

University Examiners:

BRING Pr.B.R.NA

Name and Signature of Examiner-1

Y DHANALAKSHMI Name and Signature of Examiner-2

Design and Development of GSM Based Vehicle Parameter Monitoring and Controlling

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Deelip Kumar V	1KG13EE013
Karthik V R	1KG13EE018
Rajath Kashyap R	1KG13EE028
Vajja Hithesh Siddhartha	1KG13EE033

Under the Guidance of

Mr.Kamalapuram Srinivas Kalyan Assistant Professor Department of Electrical & Electronics Engineering KSSEM, Bangalore



Department of Electrical&Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062 2016-17

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical & Electronics Engineering

Certificate

This is to certify that the project work entitled **Design and Development of GSM Based Vehicle Parameter Monitoring and Controlling** is a bonafide work carried out by

Deelip Kumar V	1KG13EE013
Karthik V R	1KG13EE018
Rajath Kashyap R	1KG13EE028
Vajja Hithesh Siddhartha	1KG13EE033

in partial fulfilment for the award of **Bachelor of Engineering in Electrical & Electronics Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

52/00/20 Szinivas Kalyon K

Name and Signature of Internal Guide

Head of the Department

Principal/ DibiSct N. SRIDHARA Principal/Director K. S. School Of Engineering & Management BENGALURU:=560 109.

University Examiners:

ARIN B'R. NATARA Name and Signature of Examiner-1

"Dr. DHANALAICS HMJ, R. Name and Signature of Examiner-2

Design and Implementation of Rain Water, Humidity and Temperature Detector Alarm Unit for Green House Irrigation System

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Bellam Jyothi Prakash	1KG13EE006
Bimbika R Patel	1KG13EE007
Birendra Kumar Bhagat	1KG13EE008
Nikhil Bhaskar	1KG13EE026

Under the Guidance of

Mrs. Manjula B.G Associate Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2016-17

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Design and Implementation of Rain Water, Humidity and Temperature Detector Alarm Unit for Green House Irrigation System is a bonafide work carried out by

Bellam Jyothi Prakash	1KG13EE006
Bimbika R Patel	1KG13EE007
Birendra Kumar Bhagat	1KG13EE008
Nikhil Bhaskar	1KG13EE026

in partial fulfilment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

angula B B.R.M

Name and Signature of Internal Guide

Head of the Department Dept. of Electrical & Electronics Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

BRNR DSBR. NATARATIN

Name and Signature of Examiner-1

Principal/Director Dr. S. N. SRIDHARA Principal/Director K. S. School Of Envincering & Manager BENGALURU::550 109.

Name and Signature of Examiner-2

Design and Experimental Analysis of a DC Motor Speed Synchronization System

A Project Work submitted to



Visvesvaraya Technological University In partial fulfilment of the requirements For the award of degree of

Bachelor of Engineering In Electrical and Electronics Engineering

Submitted by

Kiran Kumar B Pavan Kumar B Varsha C K

1KG14EE404 1KG13EE003 1KG13EE034

Under the Guidance of Mrs Prabha N Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2016-17

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Design and Experimental Analysis of a DC Motor Speed Synchronization System is a bonafide work carried out by

> Kiran Kumar B Pavan Kumar B Varsha C K

1KG14EE404 1KG13EE003 1KG13EE034

in partial fulfilment for the award of Batchelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2013-14. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Publia N

R.R.N

Name and Signature of Internal Guide

Head of the Department

rofessor & Head Dept. of Electrical & Electronics Engineering Principal/Director K.S. Group of Institutions K. S. School Of Engineering & Management K.S. School of Engineering & ManagemanBENGALURU ... 560 109. Bangalore-560 062.

University Examiners:

D.R.M Dr. BR. NATARATAN

Name and Signature of Examiner-2

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Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled **Design And Fabrication Of Weather** Monitoring Station is a bonafide work carried out by

Mr. Charan Raj K N	1KG13ME010
Mr. Rajat S	1KG14ME034
Mr. Sumanth K P	1KG14ME051
Mr. Sai Venkatesh E	1KG14ME064

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** in Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr. Karthik B M Assistant Professor Dept. Mechanical Engg

Dept of Meers of & Head Dept of Meers of & Head Professor & Head K.S. Schopel MEaning & Managem Bangalore-560 062.

Dr. S N Srid Principal/Director K. S. School Of Engineering & Managame BENGALURU: 560 109.

University Examiners:

Dr Shailerh

carName and Signature of Examiner-1 amScanner

1 24/6/17 Name and Signature of Examine

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled **Design, Fabrication and Testing of** Areca nut Tree Climber is a bonafide work carried out by

> Chandan H Govinda Raju B Prajwal Gadiyar H Shreyas G

1KG13ME007 1KG13ME018 1KG13ME029 1KG13ME050

in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Name Internal Guide / Principal Guide Dr. S. N. SRIDHARA Principal/Director S. School Of Engineering & Management BENGALURU=560 109.

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outwik B.Y

Name and Signature of Co Guide

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 Head of the Department Professor & Head
 Dept. of Mechanical Engineering K.S. Group of Institutions
 K.S. School of Engineering & Management
 Bangalore-560 062.

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "IMPROVEMENT OF PRODUCTIVIY AND REDUCTION IN LEAD TIME BY USING CNC SHOT PEENING" is a bona fide work carried out by

> CHANDAN K.M PRAVEEN R **RAGHUNANDAN B.R** SHIVA N

1KG13ME008 1KG13ME030 1KG13ME033 1KG13ME049

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide Dr. Sha, Tuh Rev H

University Examiners:

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Name and Signature of External Guide ಗ್ರಮಾಪಾಲ (ಮಧನ್)

Dreel उप प्रबन्धक (कार्यविधि) Copter Division, HAL, Banga

Principal/

Head of the Department

Director Dr. S. N. SRIDHAR

Professor & Head Principal/Director Dept. of Mechanical Engineering Principal/Director K.S. Group of Institutions. School Of Engineering & Manag Manager (Methods) K S School of Engineering & Managenten GALURU=560 105

Bangalore-560 062.

Name and Signature of Examiner-2

No. #15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Design and Fabrication of solar powered pesticide sprayer is a bonafide work carried out by

> Pruthvi. D Rakshitha. M Sanjana. S. Kubsad G.Bindu Madhavi

1KG13ME031 1KG13ME036 1KG13ME046 1KG13ME061

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

SHINANAND

Name and Signature of Internal Guide

Head of the Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School Of Engineering & Manageme BENGALURU == 560 100 K.S. School of Engineering & Manage Bangalore-560 062,

Principal/ Director Dr. S. N. SRIDHARA Principal/Director

University Examiners:

Dr. Shalenh Rus

Name and Signature of Examiner-1

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22/6/17 Name and Signature of Exam

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Conversion of Non Bio-Degradable Plastic to Synthesis Gas by Pyrolysis Process is a bonafide work carried out by

Mr. Manoj Kumar R P	1KG13ME063
Mr. Naveen Kumar H	1KG14ME408
Mr. Parappa S Tamadaddi	1KG14ME049
Mr. Suhas K S	1KG14ME415

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering in Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr. Harsha J Assistant Professor Dept. Mechanical Engg

University Examiners:

Shailah Name and Signature of Examiner-1

Shailesh Rao

Professor & Head Dept. Mechanycai Engy Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & ManagKminischool UI Engineering & Manager: Bangalore-560 062.

Dr. S N Sridhara

Principal/Director

Dr. S. S. SRIDHARA Principal/Director BENGALURU=560 109.

jk, 23/6/17 Name and Signature of Examiner-

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled **Design and Fabricate a** transplanting system for paddy seedlings by using crank and lever mechanism is a bonafide work carried out by

> ANEEL KUMAR N G 1KG14ME400 CHANDRASHEKAR B 1KG14ME401 MANURAJ 1KG14ME407 T K POORNACHANDRA 1KG14ME410

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

(Kursh, 00

Mr. Bharath Kumar M Assistant Professor Dept. Mechanical Engg

Signature of Examiner-1

University Examiners:

Dr. Shailesh Rao A Professor & Head Dept. Mechanical Engg

Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management

Bangalore-560 062.

Dr. S N Sridhara

Name and Signature of Examine

Dr. S N Sridhara Principal/Director Dr. S. N. SRIDHARA Principal/Director

X. S. School Of Engineering & Managamer* BENGALURU::560 109

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Performance Evaluation of Nano based Bio-oils as cutting fluids for Drilling operation of Mild Steelis a bonafide work carried out by

Dhanaraj.S	1KG12ME402
Madhu.M	1KG12ME407
Ravindra. R	1KG13ME416
Venkatesh Nikhil. H. S	1KG13ME420

in partial fulfilment for the award of Batchelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Br-JyOTh P'N

Name and Signature of Internal Guide

Name and Signature of Industrial Guide

Principal/

Dr. Dr. SRIDHARA Plotesso Dept. of Mechanical Engineering Principal/Director K.S. Group of Institutionschool Of Engineering & Manager K.S. Group of Institution K.S. School of Engineering & Management LURU=560 109. Bangalore-560 062.

University Examiners:

Dr. Sharler Roof

Vame and Signature of Examiner-1 iscanner

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Design and Fabrication of Three Axis Modern trailer is a bonafide work carried out by

M Dillip	1KG13ME023
Rayapaneni Devi Vara Prasad	1KG13ME039
K Sasi Kumar	1KG13ME062
Yogesh M	1KG12ME055

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

212011

Name and Signature of Internal Guide

University Examiners:

ProfassafiseHead Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Principal/ Dr. S. N. SRIDHARA Principal/Director K. S. School Of Engineering & Managem BENGALURU=:560 109.

Dr. Shailerh Rau

Name and Signature of Examiner-1 Scanned with amScanner

·K, 24/6/17

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560062



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled **Three modes powered hybrid drive to** increase the performance in two wheelers is a bonafide work carried out by

Karthik J	1KG13ME021
Mahesh kumar B D	1KG13ME024
Punith V	1KG13ME032
Shashi Kumar M	1KG14ME414

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

311/10

Principal/Director Dr. S. N. SRIDHARA Principal/Director K. S. School Of Engineering & Management BENGALURU==560 109.

Name and Signature of Internal Guide Department

Head of the Department Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Name and Signature of Examiner-2

University Examiners:

Dr. Shalah Ras A

Name and Signature of Examiner-1



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No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Synthesis and Characterization of Biodegradable Polymer Nano Composite is a bonafide work carried out by

> BALAJI. R DEEPAK.M K.V. DILIP KUMAR MANOJ.V.REDDY

1KG13ME006 1KG13ME013 1KG13ME020 1KG13ME027

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

avest

Name and Signature of Internal Guide

(A. HAREESH)

University Examiners:

Name and Signature of Examiner-1

Head Popf B690 Epath Roht Dr. SPINCIBIRIDEPARA Dept. of Mechanical Engineering Principal/Director K.S. Group of Institution S. School Of Engineering & Managerra K.S. School of Engineering & Manage BENGALURU=560 109 Bangalore-560 062.

Name and Signature of Examine

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No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Mechanical Characterization of Welded Joint of Dissimilar Composition of Al-Si Alloy by Using Friction Stir Welding is a bonifide work carried out by

Aithal Shashanka Dayananda	1KG13ME004
Chandan S	1KG13ME009
Ganesh J	1KG13ME017
Vinay S	1KG13ME057

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide 1 University Examiners:

Name and Signature of Internal Guide 2

Head of the Department

Principal/ Director

Shula

Name and Signature of Examiner-1 Scanned with CamScanner

KALAJI.R

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Design and Fabrication of Multiutility Machine for Seed Sowing and Planting is a bonafide work carried out by

Srikumar H. S	1KG12ME045
Sai Teja. K	1KG13ME043
Sumukh S. M	1KG13ME052
Suraj. J. Rao	1KG13ME053

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

umir

Name and Signature of Internal Guide with date

University Examiners:

Head of the Department Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management BENGALURU= 560 109. Bangalore-560 062.

Principal/ Director Dr. S. N. SRIDHARA Principal/Director K. S. School Of Engineering & Management

m. Sh

Name and Signature of Examiner-1 with dated with CamScanner

Name and Signature of Examiner with date

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled **Experimental investigation on tool** wear during turning operation of mild steel using Gingelly oil as cutting fluid is a bonafide work carried out by

Mr. Abhishek P	1KG13ME002
Mr. Manjunatha N	1KG13ME025
Mr. Sandeep K S	1KG13ME044
Mr. Arun Gowda H G	1KG13ME402

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mrs. Alam Radhika Associate Professor Dept. Mechanical Engg

University Examiners:

Dr Shailer

Name and Signature of Examiner-1

Dr. Shaffeshikab Autions Profestering Autions Professor & thead of Managem Dast. Mechanical Engelos. K.S. School of Bangalore

620

DDS. MSSrithasa RIDHARA Principal/Diziela/Director K. S. SchallevEngineering & Management BENGALURU=560 109.

Name and Signature of Examiner-

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Friction stir welding of hypoeutectic alloys using yttrium oxide is a bonafide work carried out by

Abhishek K B	1KG13ME003
Arkesh D J	1KG13ME005
Chetan R S	1KG13ME011
Sachin Pruthviraj M	1KG13ME041

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Name and Signature of internal Co- Guide

Head of the

Department

Professor & Head

Principal

Director

Dr. S. N. SRIDHARA Principal/Director

Dept. of Mechanical Engineering K.S. Group of Institutions K. S. School Of Engineering & Managenia K.S. School of Engineering & Managem BENGALURU ... 560 109. Bangalore-560 062.

University Examiners:

Name and Signature of Examiner-1 amScanner

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled **Experimental evaluation of optimal Ethanol-Gasoline blend percentage under variable compression ratios in a Four Stroke Digital Twin Spark Ignition Engine,** is a bonafide work carried out by

1KG10ME027
1KG12ME027
1KG12ME041
1KG14ME417

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Laiball

Name and Signature of Internal Guide

Head of the Separation of the chanical Engineering Principal/ Dept. of Mechanical Engineering Principal/Director K.S. Group of Institutions Scheeh Df Engineering & Management K.S. School of Engineering & Management Bangalore-560 062.

University Examiners

Name and Signature of Examiner-1

BALAJI.B

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled **Experimental investigation on tool** wear during turning operation of mild steel using Gingelly oil as cutting fluid is a bonafide work carried out by

Mr. Abhishek P	1KG13ME002
Mr. Manjunatha N	1KG13ME025
Mr. Sandeep K S	1KG13ME044
Mr. Arun Gowda H G	1KG13ME402

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2016-17. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mrs. Akam Radhika Associate Professor Dept. Mechanical Engg

Engineering Baninee Hand & Management Dr?Shailesh Ragivinns Dept Mechanical Enge K.S. School Bangalore

Dr.S.N.gridHarsSRIDHARA Principal/Aircipal/Director K.S. Schulter Engineering & Management BENGALURU=:560 109.

University Examiners:

Dr. Shailerh Ro A

,23/6/17 Name and Signature of Examiner-2

Reliance

Reliance Securities Limited 11th Floor, R – Tech IT Park Western Express Highway Goregoan (East) Mumbal – 400 063

Tel: +91 223320 1212 Fax: +91 223320 1555 www.rsec.com

To whom it may concern

This is to certify that Mr. ABHISHEK K R (1KG14MBA01) from K S SCHOOL OF ENGINEERING & MANAGEMENT COLLEGE, Bangalore has successfully completed an internship and project titled "A STUDY ON PORTFLIO MANAGEMENT" at Reliance Securities Ltd." in partial fulfillment of the requirement for the award of him MBA degree from Visvesvaraya Technological University. The period of the project was from 14th December 2015 to 17th Feb 2016.

During the above period, performance and conduct of. ABHISHEK K R (1KG14MBA01) has been good and satisfactory.

We wish him all the best for his future endeavors.

Place: Bangalore

Date: 17/Feb/2016



Registered office: 11th Floor, R – Tech IT Park Western Express Highway Goregoan (East), Mumbal – 400 063.



CCOM/HR/PRJT/34/2016 March 3, 2016

CERTIFICATE

This is to certify that Mr. Ankepalli Harikrishna (Reg. No: 1KG14MBA02), from KS School Of Engineering and Management, No15, Mallasandra, Kanakapura Road, Bangalore has completed his Project in Finance titled "STUDY ON COMMODITY FUTURES MARKET MCX" at our Institution Celebrus Commodities Limited, Bangalore, under the guidance of Mr. Krishna Bhat, Regional Manager. It is made sure that his original work has not been submitted anywhere in any form. The project work was carried during 14th December 2015 to 17th February 2016.

Yours truly,

For Celebrus Commodities Limited

Ancy PA Assistant Manager-HR



Seal of the organization

CELEBRUS COMMODITIES LIMITED. 27/540, 3rd Floor, EAK Towers, Main Avenue, Panampilly Nagar, Cochin - 682 036, Kerala, India Phone: +91 484 664444, Fax: 0484 4012769, E-mail: into@celebrus.in CIN: U67190KL2009PLC024798

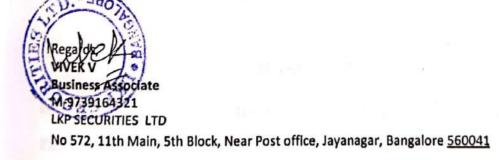
INTERNSHIP CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **HEMA.R.C** (Reg no. 1KG14MBA07) student of K.S School of Engineering and Management , Bangalore, VTU University has successfully completed her internship training the project titled "DERIVATIVES IN FUTURE AND OPTIONS" at LKP securities Ltd, Bangalore from 14-12-2015 to 17-02-2016.

She has exhibited a high level of enthusiasm and commitment in her work. On completion of the project, she has submitted a written report of the above studies.

We wish her all the best for her future Endeavour's.



LKP Securities Ltd Member NSE Sebi Regn. No. INB / INF 230720030 / MAPIN ID 1000000331 Regd. Off. / WDM: 404, Embassy Centre, Nariman Point, Mumbai - 400.021 022-6635 1234, Fax: 022-6635 1249

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INTERNSHIP CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that KILARI NIKHIL, USN 1KG14MBA11 student of K.S School of Engineering and Management, Bangalore, VTU University has successfully completed his internship training the project titled "A STUDY ON CONTRIBUTION OF PERSONAL SELLING ON SALES VOLUME" at EUREKA FORBES LTD- Security System Division Euro Vigil Bangalore from 14-12-2015 to17-02-2016.

He has exhibited a high level of enthusiasm and commitment in his work. On completion of the project, he has submitted a written report of the above studies.

We wish him all the best for his future Endeavour's.

Thanks & Regards, VishWanath B Regional Sales Head Euro vigil-Electronic Security System Division Bangalore-560060 M-9945699050 Electronic BES LTD

10 122-23

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HR/Certificate/2016-08

Date: 16-02-2016

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. M. Sunil Dath (USN: 1KG14MBA14) student of K S School of Engineering and Management has successfully finished his Internship Project in our HINDUSTAN UNILEVER LIMITED.

Name of the Project: "Analysis of Supply Chain Management of Hindustan Unilever Limited".

Duration of the internship Project: From: 09-12-2015 to 16-02-2016.

We wish him all the success in his future endeavours.

For Hindustan Unilever Limited

orized Signatory

HINDUSTAN UNILEVER LIMITED 64 Main Road, Whitefield, Bangalore, Karnataka, India Tel : +91-22-39830000 Fax: +91-22-28249438 Email: lever.care@unilever.com



Right Choice Mind Set Legal Friend

Date: 20th Feb 2016

Subject: Study completion

This is to inform that Ms.Nidhi kumari, Student Ref USN no. 1KG14MBA18 Final year MBA student from K.S.S.E.M College Bangalore. Has conducted & completed her Project study from 8th Dec 2015 to 16th Feb 2016 in our firm on Topic <u>Recruitment Process.</u>

The final report on the said topic yet to be submitted to us.

For RML Management Consultants

Chief Consultant

Placements

Training & Development

Legal Services

585, 'VENKATESHA', 16th Main, 10th Cross, Padmanabhanagar, Bangalore - 560 070. Tel: 080-2679 1687, E-mail: kvsathya@rmlconsultants.com Website: www.rmlconsultants.com



FLORET CONSULTING

361 Ground Flace, 7th Cross Jayanagar (Block, Bangalore, 560,011 \$ +91-80-2656,5727 \$ info@floretconsulting.com

www.floretconsuting.com

17th Feb, 2016

To Whom So Ever It May Concern

This is to certify that Ms. Priyanka Rani (USN No: 1KG14MBA21), a student of KS School of Engineering & Management, Bangalore has successfully completed her Internship in our organization from 7th December 2015 till 17th February 2016.

During her tenure as an Intern with Floret Consulting, she has worked on project titled "Impact of Social Media in Recruitments" and have also worked on Sourcing / Profiling through Social Media.

During her Internship duration with us, we found her as sincere, hardworking and a dedicated professional.

We wish her all the very best for her future endeavors.

For Floret Consulting Shilpi Sarkar

HR Executive



. - -

IMAGE LABELS PVT. LTD.

No. 10, Vejarahall, Off Kanakapura Road, Bangatore - 560 052. Phone : 060 - 2642 5555 / 2608 7000, Fix: 080 - 2842 5678, E-mail : admin@imagefabels.in, www.imagefabels.in



Date: 17-02-2016

CERTIFICATE

This is to certify that Ms. Rakshitha .T.M (Reg No 1KG14MBA22), student of K. S. School of Engineering & Management, No.15, Mallasandra, Off Kanakapura Rond, Banagalore-62 has successfully completed her internship on "A STUDY ON MEASURE OF QUALITY OF WORKLIFE OF EMPLOYEES AT IMAGE LABELS PRIVATE LIMITED", HANGALORE, for a period of 10 weeks from 14/12/15 to 17/2/2016.

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We wish all the best for her future endeavors.

For Image Labels Pvt. Ltd.,

(K.JAVAKUMAR)

' General Manager - IIR

独SGIA

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KAVIKA/PA/2015-2016/

Date: 05-03-2016

CERTIFICATE

This is to certify that Mr. R NARESH KUMAR., USN1KG14MBA23 Student of IV Semester M.B.A (Master of Business Administration) Studying at K.S School of Engineering and Management Bangalore-560062 has undergone Internship Training in the area of 'A Study On Employee Satisfaction' in our Organization for a period of Two month from 19-12-2015 to 19-2-2016.

We wish him all success in his future endeavour.

for KARNATAKA VIDYUTH KARKHANE LIMITED

63/16 (N.S. SURESHNATH) DEPUTYMANAGER-QUALITY CONTROL PERSONNEL & ADMINISTRATION-I/c

ಕಾರ್ಖಾನೆ ಮತ್ತು ಆಡಳಿತ ಕಛೇರಿ : ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ಕಾರ್ಖಾನೆ ನಿಯಮಿತ, ಅಂಚೆ ಪೆಟ್ಟಿಗೆ ಸಂಖ್ಯೆ 2010, ಮೈಸೂರು ರಸ್ತೆ, ಬೆಂಗಳೂರು - 500 020. FACTORY & REGISTERED OFFICE : KARNATAKA VIDYUTH KARKHANE LIMITED, POST BOX NO. 2610, MYSORE ROAD, BANGALORE - 560 026.

080-26744291

ದೂರವಾಣೆ :) 26748274, 26743331, Telephones : \$ 26742337, 26752934 26987200

md@kavika.co.in

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تأمير المعنى معنى المعنى ا معنى المعنى المع

No.Bamul/Admn-01/Cert/2015-16

Date: 24.02.2016

<u>CERTIFICATE</u>

This is to Certify that Mr. Sathish R, M.B.A. Student of K,S.School of Engineering L Management has successfully completed the Project on "A Study on Brand Awareness" from Date: 09.12.2015 to 14.02.2016 at Bengaluru Urban, Bengaluru Rural and Ramanagara District Co-Operative Milk Producer's Societies Union Ltd., Bengaluru- 560029.

> General Manager(admn) Bengaluru Co-op Milk Union Ltd.,

<u>ಟೆಂಗಳೂರು ದೇರಿ: ರಾ. ಎಂ.ಪೆಚ್.ಮಂಗೌಡ ರಸ್ತೆ ದಂಗಳೂರು-560 029</u> ಕನ್ನಮರ್ ಕೇರ್: 080-25539123, ಸೆಕ್ನೂರಿಟಿ ಅಫೀಸ್ : 080-26096287, ಫ್ಯಾಕ್ಟ್ : 080-25536597 Phone : Customer Care : 080-25539123, Security Office : 080-26096287 Fax : 080-25536597 Email : bamulkmf@yahoo.co.in Website : bamulnandini.coop</u>



TO WHOM IT MAY CONCERN

This is to certify that MR. THOKALA RAKESH (1KG14MBA28) from K S SCHOOL OF ENGINEERING & MANAGEMENT COLLEGE, Bangalore has successfully completed an internship and project titled "A STUDY ON CUSTOMER SATISFACTION AT SAVOURY SEASHELL RESIDENCY, BENGALURU" in partial fulfillment of the requirement for the award of him MBA degree from Visvesvaraya Technological University. The period of the project was from 14th December 2015 to 17th February 2016.

During the above period, performance and conduct of MR.THOKALA RAKESH (1KG14MBA28) has been good and satisfactory.

We wish him all the best for his future endeavors.



Place: Bengaluru Date: 17/Feb/2016

> No. 10 | Bhavani Layout | Next to Maruthi Sagar Automobiles Bannerghatta Main Road |Bangalore - 560 029 | Ph: 080 49355500 Email: info@savouryseashell.com | savouryseashell.residency@gmail.com Website: www.savouryseashell.com

> > Scanned with CamScanner



BMA Wealth Creators Ltd.

CERTIFICATE

This is to certify that Mr VINAY.V USN: 1KG14MBA30 a student of MBA studying at K.S SCHOOL OF ENGINEERING & MANAGEMENT Bangalore has undergone the internship and has completed project titled as "A STUDY ON ANALYSIS OF INVESTMENT OPTIONS" at BMA Wealth Creators Ltd (Jayanagar Bangalore Branch) from a period of 14th December 2015 to 14th February 2016 in our company under the guidance of Mr. RASHMI RANJAN PADHI.

We wish to express our appreciation for his excellent work done and wish him all the success in her new endeavour.

Place: Bangalore

External Guide

Date: 25-Feb-2016

RASHMI RANJAN PADHI (Unit Head-Karnat rate Office:

Vishwakarma II 29/5A, Dr. Ambedkar Sarani, Topsia Road, Kolkata - 700046 PH : 033-400110099

Regd. Office: 14/1, Paul Mansion, 1st Floor, 6, Bishop Lefroy Road. Kolkata 700020

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560062



Department of Civil Engineering

Certíficate

This is to certify that the project work entitled **A Comparative Study between Cost and Materials for Green Building and Conventional Building** is a bonafide work carried out by

Mukesh B R	1KG13CV409
Naveen P	1KG13CV410
Raghu C M	1KG13CV413

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Wheelle

Name and Signature of Internal Guide I

University Examiners:

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Name and Signature of Examiner-1

M.T. Shruyas. Name and Signature of Head of the Principal/ Internal Guide II & Departments Principal / Director Classific Conference & School of Engineering & Man

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K.S. School of Engineering & Management Bangalore-560 062

Lakshmitanth. S. - H___- /-

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Urban Planning and Land Reuse of Tumakuru Town is a bonafide work carried out by

Sunil K R	1KG12CV044
Vivekananda B	1KG12CV053
Lavakumar G R	1KG13CV406
Shivaprasad B S	1KG13CV415

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

VJandi: Vyshali

Name and Signature of Internal Guide-1

Kann

Name and Signature of Internal Guide-2

h. Melly Head of the Department

Professor & Head

Principal

Principal / Director Dept. of Civil Engineer N.S School of Engineering & Managemen Bangalore-560 062

University Examiners:

martelle

Druyayalalin Alulle

Name and Signature of Examiner-1

K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560062

Lakshmikanth.s. el : te .s.

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Analysis and Design of Department of Aeronautical Engineering Building Located at Chikkaballapur Using ETABS Software is a bonafide work carried out by

Abhishek Gowda B	1KG12CV001
Hindu Priya K	1KG12CV010
Meghan Gowda J S	1KG12CV021

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Kachana.

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Mrs.Rachana Project Guide

Mr.Anjan Kumar M.U

Project Co-Guide

whelle

Dr.Vijayalakshmi Akella Dr.S.N.Sridhar Principal Director Head of the Department Professor & Head K.S. School of Engineering & Management Bangalore-560 062 Dept. of Civil Engineering K.S. Group of Institutions

K.S. School of Engineering & Management Bangalore-560 062.

Lakahmikanth. S.

Name and Signature of Examiner-2

University Examiners:

madelle

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **Experimental Studies on Bearing** Capacity of Skirted Footing on C-D Soil is a bonafide work carried out by

Kiran V	1KG12CV016
Mrudula N Gowda	1KG12CV023
Nandish S V	1KG12CV026

in partial fulfilment for the award of **Bachelor of Engineering in civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

ARE FAL VIDAY

Name and Signature of Internal Guide

marcelle

Head of the Department Professor & Head Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Principal/ Director Principal/Director K.S. School of Engineering & Management Bangalore-560 062

University Examiners:

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Tor vijay delstin Arcelle,

Name and Signature of Examiner-1

Lakshmikanthis.

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **Effect of super-plasticizers on geo**polymer concrete is a bonfire work carried out by

Kiran Kumar M U	1KG12CV015
Mallikarjuna S K	1KG13CV407
Ravikumar Handral	1KG13CV414

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide-1 WAtcelle

Head of the Department Professor & Head Dept. of Civil Engineering K.S. Sc K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Principal/Director Principal/Director K.S School of Engineering & Management Bangatere-560 062

University Examiners:

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Name and Signature of Examiner-1

Lakebrickanth.S. Lon - He is.

Name and Signature of Examine

No. 15. Mallasandra. off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **Design of Bridge with Deck Slab** and **Post-Tensioned girders** is a bonafide work carried out by

Karthik T D	1KG12CV012
Karuna C M	1KG12CV013
Pooja C N	1KG12CV030
Pooja R	1KG12CV031

in partial fulfilment for the award of **Batchelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

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Principal Dir

Head of the Separate Principal Director Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

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Name and Signature of Examiner-1

akahmikautth -S

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certíficate

This is to certify that the project work entitled Dynamic Analysis of Multi Storied Building with Pile Foundation Considering Soil Structure Interaction is a bonafide work carried out by

> Malashree M N **1KG14CSE08**

in partial fulfilment for the award of Master of Technology in structural Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of Internal guide

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Name and Signature of Dept. of Civil Engineering Head Sido Depaintutions K.S. School of Engineering & ManagementK.S. School of Engineering & Management Bangalore-560 062.

Principal/Director Principal / Director Bangalore-560 062

University Examiners:

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Name and Signature of Examiner-1

Manjunatha L L. Mgt



Department of Civil Engineering

K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062

Certificate

This is to certify that the project work entitled **A Comparative Study of Timber Concrete Hybrid Structures with Regular RCC Structure and Timber Structure** is a bonafide work carried out by

SHUBHADA.R 1KG14CSE19

in partial fulfilment for the award of Master of Technology in Structural Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal guide

malelle

Name and Signature of Head of the Department Professor & Head Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Name and Signature of Principal/Director

Principal / Director K.S School of Engineering & Management Dangalore-560 062

University Examiners:

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "A Study on Performance of High-Rise Buildings of Different Structural Systems for Lateral Loads" is a bonafide work carried out by

Sachin G S 1KG14CSE15

in partial fulfilment for the award of Master of Technology in Structural Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

SUSHMA.M

Suchana M

Name and Signature of Internal Guide

horelle

Head of the Department Frofessor & Head Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062

Principal / Director

Principal / Director K.S. School of Engineering & Management Bangalore-560 062

University Examiners:

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "SIZE EFFECT OF STEEL FIBER REINFORCED CONCRETE BEAMS" is a bonafide work carried out by

ARUN KUMAR K

1KG14CSE02

in partial fulfilment for the award of "Master of Technology in Structural **Engineering**" of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Mr. Verrendra Kumar M Associate Professor Dept. of Civil Engg. KSSEM, Bengaluru Wittelle

Professor & Head Head of the Department Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Dr. Vijavalakshuri & Kella Drofessor and Head Dept. of Civil Engg. KSSEM, Bengaluru

ment Principal/ Director ering Principal/ Director tions K.S. School of Engineering & Management A kella Dr8 Sn3aSrid 530 862

Principal KSSEM, Bengaluru

Iniversity Examiners:

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "A Study on Seismic Response of an Asymmetrical Structure with Change in Angle of Incidence and Design of Raft Foundation" is a bonafide work carried out by

Amruth.K

1KG14CSE01

in partial fulfillment for the award of **Master Of Technology** of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this project report satisfies the academic requirement in respect of project work prescribed for the degree.

wittelle Wittelle Name and Signature internal guide Name and organized department of ersor's Head Name and Signature of head of the Name and Signature of Principal and Director Principal/Director Part Contractory Bept. of Civil Engineering K.S. Ground Constant K.S. School of Engineering & Management sent & School of E School of E Sanagement Bangalore-560 062 barga ure bur und University Examiners:

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Computer Science & Engineering

Certíficate

This is to certify that the project work entitled Development of a Mobile Voice Screening Application using Noise-Aware Methodology is a bonafide work carried out by

Shahista A.R	1KG12CS092
Shravanthi M	1KG12CS095
Swathi B Shetty	1KG12CS108
Varsha T.G.	1KG12CS114

in partial fulfilment for the award of Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi, during the year 2015-16. It is certified that all the suggestions indicated during the project work have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Nun

Mrs. Veena R.S. Associate Professor Internal Guide

BK Rage 2

Dr. B. K. Raghavendra Professor and Head dra Dr. Bept. of CS&E Professor & HoD, Dept.of CSE K S School of Engineering & Manto School of Engineering Bengaluru-560109

Dr. S. N. Sridhara Principal/ Director

University Examiners:

B. K. Rage \$16 D. B. K. Ragharende

Name and Signature of Examiner-1

nang 16/2018

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Computer Science Engineering

Certíficate

This is to certify that the project work entitled Implementation of Cloud Based Application for Medical Information Exchange using 3DES is a bonafide work carried out by

Gouthami H	1KG12CS035
Nidhishree V	1KG12CS068
Savitha S	1KG12CS090
Shruti Rajan	1KG12CS097

in partial fulfilment for the award of Bachelor of Engineering in Computer Science Engineering of Visvesvaraya Technological University, Belagavi, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Pepalalouna B.K. Rach a

Name and Signature of Internal Guide

University Examiners: B-K Rag 5616 D. B. K. Ragharende

Name and Signature of Examiner-1

Principal/ K S School of Engineering & Manage School of Engineering & Management Driedlet the Appwendra Bengalury 760109

Pro BHASKER NA

No. 15, Manasanura, on Kanakapara in



Department of Computer Science Engineering

Certíficate

This is to certify that the project work entitled Development of security System for ATM Based on Biometric Approach is a bonafide work carried out by

Charishma Yadav.L	1KG12CS023
E.Haritha	1KG12CS029
Haripriya.k	1KG12CS036
Deepu.N	1KG13CS400

in partial fulfilment for the award of Bachelor of Engineering in Computer Science Engineering of Visvesvaraya Technological University, Belagavi, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

M T Gopalakrishna Prof & Internal Guide

B·K. Rag Dr. B K Raghavendra

DroB&HADASEvendra

fr B. K. Rad 5 Dr. S N Sridhara

Principal/Director Principal / Director

Professor & HoD, Dept.of CSE KSSchool of Engineering & Management Bengaluru-560109

K.S. School of Engineering & Management Bangalore-560 062

University Examiners:

Dr. J. Anither

Name and Signature of Examiner-1

B. K. Raghevourtra

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Computer Science and Engineering

Certificate

This is to certify that the project work entitled Implementation of Fast Transmission on Remote Network using Voice Authentication is a bonafide work carried out by

> Akshaya B G M B Keerthana Namratha C

1KG12CS008 1KG12CS052 1KG12CS065

in partial fulfilment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr Santosh Kumar J

Assistant Professor

Relate B. K. Rag 6 Ir. Santosh Kumar J Dr. B. K. Raghavendra

Das

Principal Difector Professor and Head K.S. Scheet Management KSBEngelore-560 062

Department of CS&E K S School of Engineering & Management

Bengaluru-560109

B. K. Rag Dr. B. K. Raghavondra Name and Signature of Examiner-2

Delle J Anithe

nd Signature of Examiner-1

K. S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Computer Science and Engineering

Certificate

This is to certify that the project work entitled " Development of a Framework to Secure Sensitive Data Sharing on a Big Data Platform" is a bonafide work carried out by

> Archana. R Kavya Shree. M. C

1KG12CS014 1KG12CS043

in partial fulfilment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mrs. Amitha. S Assistant Professor Internal Guide

B-K. Rag

Dr. B. K. Raghavendra Professor and Head Professor & HoD, Dept.of CSE

Dr. S. N. Sridhara Principabirector Dr. Department of CSEdra K.S. School of Engineeting & Management Bangalore-550 062

KSSchool of Engineering & Management Bengaluru-560109

J. Anithe C. A. In Name and Signature of Examiner-1

B. K. Rad Sills Dr. B. K. Rachavender

e and Signature of Exan

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Computer Science and Engineering

Certíficate

This is to certify that the project work entitled Development of Secure Authentication for Online Payment System based on Visual Secret Key Sharing and Steganography is a bonafide work carried out by

Aishwarya C V	1KG12CS004
Akshata A Raikar	1KG12CS007
Harshitha B M	1KG12CS039

in partial fulfilment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Dr. M T Gopalakrishna Prof & Internal Guide

Aguetto Mrs. Shruthi U Asst Prof & Internal Prof & HOD CSE Guide

B.K.Rage E Dr. B K Raghavendra

Dr. S N Sridhara Principal/Director

Dr. B.K.Raghavendra Professor & HoD, Dept of KSSSchool of Engineering & Management K S School of Engineering & Managem&angalore-560062 Bengaluru-560109

pr. J. Anithe

B. K. Kag Solo Dr. B. K. Racharendro

Name and Signature of Examiner-2

Name and Signature of Examiner-1

K S SCHOOL OF ENGINEERING AND MANAGEMENT

#15, Mallasandra, off Kanakpura Road, Bengaluru-560109 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



2015-2016

CERTIFICATE

Certified that the project work entitled "IMPLEMENTATION OF SECURE DATA ACCESS CONTROL METHOD USING ARE AND PRE FOR P2P CLOUD STORAGE carried out by Mr. ABNISH SINGH B, USN IKG14SCS01, a bonafide student of K.S. SCHOOL OF ENGINEERING & MANAGEMENT, BENGALURU in partial fulfillment for the award of Master of Technology in COMPUTER SCIENCE AND ENGINEERING, of the Visvesvaraya Technological University, Belagavi during the year 2015-2016. It is certified that all corrections/suggestions indicated have been incorporated in the report deposited in the departmental library. The Project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the M.Tech degree.

Dr. B K Raghavendra (Internal guide) Professor & Head, Dept. of CSE, KSSEM, Bengaluru

Name of the Examiner

1-2-

Dr. B K Raghavendra

Professor & Head, Dept. of CSE, KSSEM, Bengaluru

External viva

morelle

Dr. S.N Sridhara Principal/Director KSSEM, Bengaluru Principal/Director K.S. School of Engineering & Managem Bangalore-560.062

Signature with Date:

Implementation of Java Based Image Processing Tool for Image Enhancement

A Project Work submitted to



Visvesvaraya Technological University In partial fulfilment of the requirements For the award of degree of

Bachelor of Engineering In Electronics and Communication Engineering

Submitted by

B.Dîleep Kumar Pramod B Santosh Mahato Vijay D

1KG12EC012 1KG12EC069 1KG12EC088 1KG12EC110

Under the Guidance of

Mr.Sanjay Baburao Nayak Associate Professor, Department of ECE, KSSEM, Bangalore

Mrs. Arpitha Beerala Assistant Professor Department of ECE KSSEM, Bangalore



Department of Electronic and Communication Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109 2015-16

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Electronics and Communication Engineering

Certificate

This is to certify that the project work entitled Implementation of Java Based Image Processing Tool for Image Enhancement is a bonafide work carried out by

B.Dileep Kumar	1KG12EC012
Pramod B	1KG12EC069
Santosh Mahato	1KG12EC088
Vijay D	1KG12EC110

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Mr. Sanja Baburao

Nayak. Associate Professor Department of ECE KSSEM, Bangalore

Mrs. Arpitha Beerala Assistant Professor Department of FCE KSSEMI, Beargalore KSSEM, Bangalore Department of FCE KSSEMI, Beargalore RSSEM, Bangalore Principal / Director

Dr.Girish.V.Attimarad HOD of ECE

Dr.S.N. Sridhara Principal of K.S. School of Engineering & Management Bangalore-560 062

Bangalore-560 062.

C-CHANNEYONDA

Name and Signature of Examiner-2

University Examiners:

Monitoring and Controlling of Power Grid Using GSM Modem

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Kavya K M Kiran Kumar R Namratha Patil

1KG12EE014 1KG12EE015 1KG12EE020

Under the Guidance of Mrs. PRATHIKSHA Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



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K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062 Department of Electrical and Electronics Engineering Certificate This is to certify that the project work entitled Monitoring and Controlling of Power Grid using GSM Modems is a bonafide work carried out by 1KG11EE014 Kavya K M 1KG12EE015 Kiran Kumar R 1KG12EE020 Namratha Patil in partial fulfilment for the award of Batchelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree. (PRATHIKSHA) B.R. M Drothikshy + 106/16 Principal/ Head of the Name and Signature of K.S. Group of Institutional

Internal Guide

Dept. of Ele Department K.S. School of Engineering & Mark Se School of Engineering & Management Bangalore-560 062 Bangalore-560652.

University Examiners:

Dr. B.R. NATARAJAN

B.M.WR

Ruma Sinha

Name and Signature of Examiner-1

Design and Development of Speed Control Unit for Three Phase Brushless DC Motor

A Project Work submitted to



Visvesvaraya Technological University

in partial fulfilment of the requirements

for the award of degree of

Bachelor of Engineering

in

Electrical and Electronics Engineering

Submitted by

Rakshith	1KG11EE018
Mamatha K	1KG12EE019
Nirikshith B.R	1KG12EE023
Vaishnavi K	1KG12EE033
Under	the Guidance of

Mrs. Raja Vidya

Assistant Professor

Department of Electrical and Electronics Engineering

KSSEM, Bangalore



Department of Electrical and Electronics Engineering

K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062

2015-16

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Department of Electrical and ElectronicsEngineering

Certificate

This is to certify that the project work entitled "Design and Development of Speed Control Unit for three Phase Brushless DC Motor" is a bonafide work carried out by

Rakshith	1KG11EE018
Mamatha K	1KG12EE019
Nirikshith B.R	1KG12EE023
Vaishnavi K	IKG12EE033

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PQ.1

Name and Signature

of Internal Guide

B.R.MMIII (Koi6

Head of the Professor & Head Dept. of Elect Department ics Engine S K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

Dr. B. R. NATARATIM

B.R.M

Ruma Sinha

Name and Signature of Examiner-2

Design and Development of Short Circuit Fault Locator for an Underground Cable System

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Akshaye Monnappa1KG12EE001G Rekha1KG12EE009T Phani Kumar1KG12EE032Yathish Kumar H.J1KG12EE402

Under the Guidance of Mrs RAMYASHREE H.P

Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



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No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certíficate

This is to certify that the project work entitled **Design and Development of Short Circuit Fault Locator for an Underground Cable System** is a bonafide work carried out by

Akshaye Monnappa	1KG12EE001
G Rekha	1KG12EE009
T Phani Kumar	1KG12EE032
Yathish Kumar H.J	1KG12EE402

in partial fulfilment for the award of **Batchelor of Engineering in Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2015-2016. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Ramyashaee, H.P.

Name and Signature of Internal Guide

B. R. Nr 116/2116 Head of the ad

Principal/

Dept. of Elect Repartment its Engineering Director K.S. Group of Institutions Principal / Director K.S. School of Engineering & Managerite. Bangalore-560 062. Bangalore-560 062

University Examiners:

Dor B. R. NATANJAV

B-R ina

Name and Signature of Examiner-1

Kuma Sinha

Design and Implementation of Wireless Power Transfer Charging System on Miniature Model

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Mohammad Azeem	1KG10EE015
Deepak T. R	1KG12EE007
Pratiksha Bhushan	1KG12EE026
Swathi G. N	1KG12EE031

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Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Design and Implementation of Wireless Power Transfer Charging System on Miniature Model is a bonafide work carried out by

Mohammad Azeem	1KG10EE015
Deepak T. R	1KG12EE007
Pratiksha Bhushan	1KG12EE026
Swathi G. N	1KG12EE031

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

(GOUSZA SULTANA) hour Subtana Name and Signature

of Internal Guide

R. R. M. 116 2116 Profession & Management K.S. Group of Institutions K.S. Group of K.S. Group of Institutions K.S. Group of Institutions K.S. Group of Institutions K.S. Group of K.S. School of Engineering & Management Bangalore-560 062

Bangalore-560 062.

University Examiners:

Dr. B.R. NATARAJAN

B.R. WA

Ruma Sinha

Name and Signature of Examiner-2

Design and Experimental Analysis of a DC Microgrid Model based on Multisource System

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering

in

Electrical and Electronics Engineering

Submitted by

Sandeep R1KG10EE027Boyapati Harish1KG12EE005Pushpalatha S1KG12EE027Vunnam Neeharika1KG12EE034

Under the Guidance of

Mrs. Prabha N

Assistant Professor

Department of Electrical and Electronics Engineering KSSEM, Bangalore



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Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled **Design and Experimental Analysis** of a DC Microgrid model based on a Multisource system is a bonafide work carried out by

Sandeep R	1KG10EE027
Boyapati Harish	1KG12EE005
Pushpalatha S	1KG12EE027
Vunnam Neeharika	1KG12EE034

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(Prabha N)

Name and Signature of Internal Guide

B.R. NR 11/6/2016

Headsofrtheead Principal/ Dept. of ElecDepartment in a Engineering Principal/ K.S. Group of Institutions v S School of Engineering & Management K.S. School of Engineering & Management Bangalore-560 062. Bangalore-500 062

Dr. B. R. NAZARAJA

Brance

Ruma Sinha

Name and Signature of Examiner-1

Name and Signature of Examiner-2

Design of a Transformer-less Inverter for Non-Isolated Micro-inverter Applications Using High Efficiency MOSFET's

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Sathish B1KG11EE012Kavya D N1KG12EE013Naveen V1KG12EE022Vathsav Naidu B S1KG13EE401

Under the Guidance of Mr. HARIPRASAD Y Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



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No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled **Design of a Transformer-less Inverter** for Non-Isolated Micro-inverter Applications Using High Efficiency MOSFET's is a bonafide work carried out by

Sathish B	1KG11EE012
Kavya D N	1KG12EE013
Naveen V	1KG12EE022
Vathsav Naidu B S	1KG13EE401

in partial fulfilment for the award of **Batchelor of Engineering in Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2015-2016. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Hanprougery Rol6/12)

Name and Signature of Internal Guide

R.R. NA 11/6/2016 Head of the

Head of the Principal/ Department & Maad Dept. of Electrical & Strational & Engineering Director K.S. Group of Institutions K.S. School of Engineering & Management Bangelore-monipel, Bangalore-560.062

University Examiners:

Dr.B.R. NATARAJAN

BRINZ

Ruma Inha

Name and Signature of Examiner-2

Design and Implementation of Automatic Street Light Control System Using Light Dependent Resistor

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Karthik A	1KG11EE006
A Pavan Kumar	1KG12EE002
Gouthami C	1KG12EE011
Santosh C	1KG12EE035

Under the Guidance of

Mrs. RAMYA K.R

Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



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No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certíficate

This is to certify that the project work entitled **Design and Implementation of Automatic Street Light Control System Using Light Dependent Resistor** is a bonafide work carried out by

Karthik A	1KG11EE006
A Pavan Kumar	1KG12EE002
Gouthami C	1KG12EE011
Santosh C	1KG12EE035

in partial fulfilment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

(RAMYA K.R)

Name and Signature of Internal Guide

B.R. Na 116/2

of Head of the Principal/ Department ad Principal/ Dept. of Electrical & Electronics Engin KSN School of Engineering & Management K.S. Group of Institutions Bangalore-560 062 K.S. School of Engineering & Management Bangalore-560 062.

Ruma Sinha

University Examiners:

Dr. B. B. NATAROSAN B.R. MZ

Name and Signature of Examiner-

Design and Development of a Capacitive Power Transfer for Contactless Charging of low Power Devices

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering

in

Electrical and Electronics Engineering

Submitted by

Bhuvaneshwari S	1KG12EE004
Dakshayani S	1KG12EE006
Rakshak B R	1KG12EE029

Under the Guidance of

Mrs Manjula B G

Assistant Professor

Department of Electrical and Electronics Engineering KSSEM, Bangalore



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2015-16

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Design and Development of Capacitive Power Transfer for Contactless Charging of Low Power Devices is a bonafide work carried out by

Bhuvaneshwari S	1KG12EE004
Dakshayani S	1KG12EE006
Rakshak B R	1KG12EE029

in partial fulfilment for the award of Batchelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

01 06 16 B.R. was Name and Signature of

Internal Guide

Head of the 11/2 2014 Principal/ Department to a consector Principat/Director Dept. of Electrical & Electronical Engineering Frince 1589 Director K.S. Group of institutions K.S. School of Engineering & Management

University Examiners:

K.S. School of Engineering & Management Bangalore-560 C62 Bangalore-560 062.

Ruma Soha

Name and Signature of Examiner-2

Pr. B. R. MUSRASIN BRIM

Design and Development of Power Factor Detector for Three Phase Load

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Eesha	1KG12EE008
H.N. Chandrashekar Gouda	1KG12EE012
Maddirala Sreenath Reddy	1KG12EE017
M. Nandini	1KG12EE021

Under the Guidance of Dr. B.R. Natarajan Professor and Head Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062 2015-16

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Design and Development of Power Factor Detector for Three Phase Load is a bonafide work carried out by

Eesha	1KG12EE008
H.N. Chandrashekar Gouda	1KG12EE012
Maddirala Sreenath Reddy	1KG12EE017
M. Nandini	1KG12EE021

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

B.R.M

Name and Signature of Internal Guide

University Examiners:

B. R. NO

Head of theead Dept. of EledDepartmentonics Engineering K.S. Group of Institutions Bangalore-500 062.

Principal Director Principal, Director K.S. School of Engineering & Management S. School of Engineering & Management Bangalore-560 052

Dr.B.R. MATOROJA .B.R. MZ Name and Signature of Examiner-1

Kuma Sinha

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled **Design and development of an** aquatic weed cutter model is a bonafide work carried out by

NIKHIL.R	1KG12ME034
SHASHI SHEKAR.T.C	1KG12ME044
VINYAS.P.V.KUDDANNAYA	1KG12ME052
MUTTARAJU.N	1KG13ME410

in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Guide

Name and Signature of Co-Guide

f Head of the Principal/ Department Prin Director Professor & Head Dept. of Mechanical Engineering & Managen K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

Da A S.D Evern

None and Signature of Examiner-1 CamScanner

Name and Signature of Examiner-2

Br. JYOW PN

K.S. School of Engineering and Management No. 15, Mallasandra, Off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled DESIGN AND FABRICATION OF MULTI PURPOSED SWIMMING ROBOT is a bonafide work carried out by

> Arjun B N Bharath R N Kumar N V Mithun Kumar C

1KG12ME401 1KG13ME403 1KG13ME406 1KG13ME409

in partial fulfilment for the award of **Batchelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Guide

Bkins

[BHARATH KUMAR M]

Name and Signature of Co-Guide

Head of the

Principal/ Director

Department Direct Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Name and Signature of Examiner-2

11/2/16

University Examiners: ENRON

Name and Signature of Examiner-1

Scanned with CamScanner

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled **Design and Fabrication of Automatic Feed Pneumatic Power Sheet Metal Cutting Machine** is a bonafide work carried out by

Chandan M.	1KG12ME010
Gurudutt R.	1KG12ME017
Praveen M.	1KG12ME036
Sanjay kumar S.	1KG12ME042

in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

[YUVARAJANAIK]

Name and Signature of Internal Guide

8. pm

[BHARATH KUMARM]

Signature of Head of the

Name and Signature of Internal Guide

Principal/

University Examiners:

CamScanner

De. A-S-DENOOR

Name and Signature of Examiner-1

de Department Director Professor & Head Principal, Director Dept. of Mechanical Engineering School of Engineering & Managen K.S. Group of Institutions Bangalore-560 062 K.S. School of Engineering & Management

Bangaio 260 Ta20 In

Name and Signature of Examiner-2

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560062



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Experimental Investigation on Mechanical Properties of Friction Stir Welded AA 5052 and AA 6061 is a bonafide work carried out by

Lokesh K N1KG12ME026MerbinVinesh V1KG13ME408Pushpak S1KG13ME414Vivek K1KG12ME053

in partial fulfilment for the award of Batchelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2013-14. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Guide

Sasil

Head of the Department Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Principal/ Director Principal / Director K.S School of Engineering & Management Bangalere-560 062

University Examiners:

Re-A-5 Revanya.

Name and Signature of Examiner-1

Dr. Jyolin PM



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Fabrication and Characterization of Jute and Carbon Fiber Reinforced Epoxy Based Hybrid Composites is a bonafide work carried out 64

> ABHINAB BARUAH GANESH SINGH **RAKESH MOHAN** HARSHA L

1KG12ME002 1KG12ME016 1KG12ME039 1KG11ME018

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Dr. Jyolii PN

Name and Signature of Internal Guide

Head of the

Department

Professor & Head

Principal/ Principathy Director K.S. School of Engineering & Management Dept. of Mechanical Engineering Bangalore-550 062

University Examiners:

5 DONATER

Name and Signature of Examiner-1

Dr. Jyo In p.N

Name and Signature of Examiner-2

K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled "Effect of burner design on the Performance of LPG stove" is a bonafide work carried out by

1KG11ME020
1KG11ME038
1KG12ME018
1KG12ME023

in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Head of the Professor & Head

KyS: Group of Institutions's

Principal/ Principal / Director Deetto Mechanical Engineering & Management Bangalore-569 062

KSSScholatEngineering & Mainagement University Examiners: Bangalore 5600622.

Da. A S Devarya. Rady 11/16

Name and Signature of Examiner-1

Dr. JYOKUPN

No. 15, Mallasandra, off Kanakapura Road, Bengaluru - 560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Experimental Evaluation Process Parametric Using Different Tool Rake Angles in Turning Operations with Gingelly Oil as Cutting Fluid is a bonafide work carried out by

> **RAGHAVENDRA**.Y.R **ARJUN .S .GALGALI DARSHANA**.S YESHWANTH.T

1KG12ME037 1KG13ME400 1KG13ME404 1KG13ME421

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Head of the Department

Principal/ Director Dept. of Mechanical Engineering Principal / Director

K.S. Group of Institutions K.S. School of Engineering & Management K.S. School of Engineering & Management Bangalore-560 062 Bangalore-560 062.

University Examiners:

Re. D.S. Devary

Name and Signature of Examiner-1 CamScanner

Br. P.N. Jyohn

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Design and Fabrication of Automated Manual Gear Transmission In Motor Bike is a bonafide work carried out by

CHETHAN J	1KG12ME012
DARSHAN NAIK	1KG12ME014
LAKSHMI KESARI	1KG12ME024
MAHANTHESH S	1KG12ME028

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Ollenp/03/01/16. Akash deep. B.N.

Name and Signature of Internal Guide

Head of the Department Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

K.S. School of Engineering & Management Bangalore-560 062

University Examiners:

B.D.S- Revora

Name and Signature of Examiner-1

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Experimental Studies on Cutting Parameters during Drilling Operation of Mild Steel Using Eco-Friendly Vegetable Oil as Cutting Fluidis a bonafide work carried out by

M Susmitha Sharan P

1KG11ME054 1KG12ME043

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2013-14. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Pr. Jyoli pN

Name and Signature of Internal Guide

Head of the Department Professor & Head

Principal/ Director

Dept. of Mechanical Engineering Principal / Director K.S. Group of Institutin S. School of Engineering & Manageme K.S. School of Engineering & Manageme Bangalore-560 062 Bangalore-560 062.

University Examiners:

S- Reverbyl

Name and Signature of Examiner-1

Ar. Jyolin PM

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Design and fabrication of three wheeled power tiller for agricultural and transportation purpose using Suzuki fiero engine is a bonafide work carried out by

Abhilash S	1KG12ME001
Chandan S T	1KG12ME011
Ravikiran P	1KG12ME040
Arjun S S B	1KG13ME401

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of Internal Guide

University Examiners:

Name and Signature of Internal Co- Guide

Head of the

Principal/

Department Director Director Dept. of Mechanical Engineering & Managen K.S. Group of Institution Bangalore-560 062 K.S. School of Engineering & Management Bangalore-560 062.

Rz-A-S. Devaha

Name and Signature of Examiner-1

m. you pr

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled **Design and Fabrication of** Mechanical Fixture for Friction Stir welding Process is a bonafide work carried out by

Nara Sai Kiran Chowdary	1KG12ME032
Mohan Kumar N	1KG11ME055
Manuholu Sai Kiran	1KG12ME030
Durgaprasad G	1KG12ME404

in partial fulfilment for the award of **Batchelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

<u>I GUVARAJA NAIK</u> Name and Signature of Guide

Bury

[GHARATH KUMARM] Name and Signature of Co-H Guide D

ure of Co- Head of the Principal/ Department Principal/ Professor & Head Dept. of Mechanical Engineering of Engineering & Marss K.S. Group of Institutions Bangatore-560 062 K.S. School of Engineering & Management Bangalore-560 062. Mr - YO M PM

13/6/16

University Examiners:

De A-Spevara

Name and Signature of Examiner-1

No. 15, Mallasandra, off. Kanakapura Road, Bengaluru-560 109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "An Experimental Investigation on Mechanical Properties of Hybrid Hemp/Glass Fibre Composites" is a bonafide work carried out by



in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

ANAND

Name and Signature of the Internal Guide

malle

Principal/Director

Head of the Department Professor & Head Principal/Director Dept. of Mechanical Engineering K.S. Group of InstitutionsK.S. School of Engineering & Management K.S. School of Engineering & Management Bangalore-560 062 Bangalore-560 062.

University Examiners: Name and Signature of E Scanned with

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Br : you pu

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled FABRICATION OF AN ECONOMICAL MANUAL MILKING MACHINE carried out by

1KG10ME035
1KG10ME039
1KG10ME047
1KG10ME057

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

umi Name and Signature of Co-

Guide

Head of the

Principal/

Department

Director Principal/Director

K.S. School of Engineering & Management Bangalore-560 062

University Examiners:

Pr. A. S - Devan

Name and Signature of Examiner-

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Pr Jyphu PN

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Optimization of Reinforcement speed for Aluminium Metal Marix Composite For Marine Applications a bonafide work carried out by

Deekshith kumar.B.S	1KG12ME015
Hari Prasad.D	1KG12ME019
Harish.R	1KG12ME020
Vinay Varshan.T	1KG12ME051

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Guide

University Examiners: hlb

Name and Signature of Examiner-1

end of the lead Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management K.S. School of Engineering & Managem Bangalore-560 062. Dr JYOUN

Principal/ Director Bangalore-560062

Name and Signature of Examiner-2

6/16

PN

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of MechanicalEngineering

Certificate

Thisistocertifythattheprojectworkentitled"Re-Design and Fabrication Of Portable Rod Bending Machine For Civil Construction Sites" is a bonafide work carried outby

> **CHETHAN Y** KIRAN M MANOJ M.R SALMAN KHAN

1KG12ME013 1KG12ME022 1KG12ME029 1KG12ME415

partial fulfilment for the In award of Bachelor of Engineering inMechanicalEngineering of VisvesvarayaTechnological University, Belgaum, during theyear2015-16. It is certified that all the suggestions indicated during internalassessmenthave been incorporated in the report and this thesis satisfies theacademicrequirement in respect of project work prescribed for thedegree.

1 P

InternalGuide

Head of the Department Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions

UniversityExaminers: 4-As-DERDO

K.S. School of Engineering & Management Por Jyohn PN Bangalore-560 062.

K.S. School Engineering & Management Bangalore-560 062

Name and Signature of Examiner-1 amScanner

Name and Signature of Examiner-2

11/116

No. 15, Mallasandra, off Kanakapura Road, Bengaluru -560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled **"Design and fabrication of Pot Erosion Testing Machine"** is a bonafide work carried out by

> Akshay G Thyagaraj Naik V Pradeep H K

1KG12ME004 1KG12ME049 1KG13ME413

in partial fulfilment for the award of **Batchelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Head of the

Name and Signature of Guide

department Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Principal/ Director

Principal / Director K.S. School of Engineering & Management Bangalore-560 062

University Examiners:

Da A.S. Devarya.

Name and Signature of Examiner-1 CamScanner

Mr JOEn PM

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled FRICTION STIR WEILDING OF DISSIMILAR EUTECTIC ALUMINIUM SILICON ALLOYS BY USING VERTICAL MILLING MACHINE is a bonafide work carried out by

T. Naveen Kumar	1KG12ME048	
P.M. Vamshi Krishna	1KG12ME050	
Yenuganti Sreekar	1KG12ME054	

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

malli Dr. Shail och Name and Signature of Name and Signature of Head of the Principal/ Guide Co-Guide Department Director Principal/Director Professor & Head Dept. of Mechanical Engigestinsol of Engineering & Management K.S. Group of Institutions Bangalore-560 062 K.S. School of Engineering & Management University Examiners: Bangalore-560062. 5-DENO Dr. Tu 12/6/16 Name and Signature of Examiner-1 Name and Signature of Examiner-2 Scanned with amScanner

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Design and Fabrication of closed loop water tunnel for experimental and numerical investigation of flow dynamics over submerged bodies" is a bonafide work carried out by

BHARATH G	1KG12ME006
BHARATH KUMAR K	1KG12ME007
BHARATHESHWARA REDDY K	1KG12ME008
NARESH	1KG12ME033

in partial fulfilment for the award of **Batchelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2015-16. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

24/05/10.

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Name and Signature of Co-Guide Profe

ture of Co- Head of the Principal/ Department Director Professor & Head Principal/ Dept. of Mechanical Engineer School of Engineering & Mana K.S. Group of Institutions Bangalore-560 062

K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

amScanner

5-Devagajo Deverision

Name and Signature of Examiner-1

Pr Jy olla

Name and Signature of Examiner-2

Reliance

Reliance Securities Limited 11th Floor, R – Tech IT Park Western Express Highway Goregoan (East) Mumbai – 400 063

Tel: +91 223320 1212 Fax: +91 223320 1555 www.rsec.com

To whom it may concern

This is to certify that Mr. ABHISHEK K R (1KG14MBA01) from K S SCHOOL OF ENGINEERING & MANAGEMENT COLLEGE, Bangalore has successfully completed an internship and project titled "A STUDY ON PORTFLIO MANAGEMENT" at Reliance Securities Ltd." in partial fulfillment of the requirement for the award of him MBA degree from Visvesvaraya Technological University. The period of the project was from 14th December 2015 to 17th Feb 2016.

During the above period, performance and conduct of. ABHISHEK K R (1KG14MBA01) has been good and satisfactory.

We wish him all the best for his future endeavors.

Place: Bangalore

Date: 17/Feb/2016



Registered office: 11th Floor, R – Tech IT Park Western Express Highway Goregoan (East), Mumbal – 400 063.



CCOM/HR/PRJT/34/2016 March 3, 2016

CERTIFICATE

This is to certify that Mr. Ankepalli Harikrishna (Reg. No: 1KG14MBA02), from KS School Of Engineering and Management, No15, Mallasandra, Kanakapura Road, Bangalore has completed his Project in Finance titled "STUDY ON COMMODITY FUTURES MARKET MCX" at our Institution Celebrus Commodities Limited, Bangalore, under the guidance of Mr. Krishna Bhat, Regional Manager. It is made sure that his original work has not been submitted anywhere in any form. The project work was carried during 14th December 2015 to 17th February 2016.

Yours truly,

For Celebrus Commodities Limited

Ancy PA Assistant Manager-HR



Seal of the organization

CELEBRUS COMMODITIES LIMITED. 27/540, 3rd Floor, EAK Towers, Main Avenue, Panampilly Nagar, Cochin - 682 036, Kerala, India Phone: +91 484 664444, Fax: 0484 4012769, E-mail: into@celebrus.in CIN: U67190KL2009PLC024798

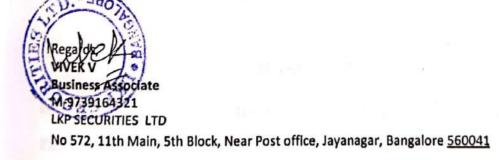
INTERNSHIP CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **HEMA.R.C** (Reg no. 1KG14MBA07) student of K.S School of Engineering and Management , Bangalore, VTU University has successfully completed her internship training the project titled "DERIVATIVES IN FUTURE AND OPTIONS" at LKP securities Ltd, Bangalore from 14-12-2015 to 17-02-2016.

She has exhibited a high level of enthusiasm and commitment in her work. On completion of the project, she has submitted a written report of the above studies.

We wish her all the best for her future Endeavour's.



LKP Securities Ltd Member NSE Sebi Regn. No. INB / INF 230720030 / MAPIN ID 1000000331 Regd. Off. / WDM: 404, Embassy Centre, Nariman Point, Mumbai - 400.021 022-6635 1234, Fax: 022-6635 1249

Shantha Complex, IInd Floor. 18-20, Lady Curzon Road, Infantry Road Cross, Bangalore 560 001 Tel +91 80 3074 1400 Fax +91 80 3074 1516 Website: www.lkpsec.com

Agra Ahmedabad Ahmednagar Aligarh Amritsar Bangalore Chandigarh Chennai Faridabad Gurgaon Hyderabad Jaipur Jalandhar Jamshedpur Jodhpur Kolkatta Ludhiana Mathura Mumbai Nasik New Delhi Noida Pune Rishikesh Sanganer Shrinagar Surat Vrindavan Vyara Yamunanagar



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INTERNSHIP CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that KILARI NIKHIL, USN 1KG14MBA11 student of K.S School of Engineering and Management, Bangalore, VTU University has successfully completed his internship training the project titled "A STUDY ON CONTRIBUTION OF PERSONAL SELLING ON SALES VOLUME" at EUREKA FORBES LTD- Security System Division Euro Vigil Bangalore from 14-12-2015 to17-02-2016.

He has exhibited a high level of enthusiasm and commitment in his work. On completion of the project, he has submitted a written report of the above studies.

We wish him all the best for his future Endeavour's.

Thanks & Regards, VishWanath B Regional Sales Head Euro vigil-Electronic Security System Division Bangalore-560060 M-9945699050 Electronic BES LTD

10 122-23

Bangalore Office : No. 42, P-3/C, Haralukunte, Muneshwara Layout, Kudlu, Bangalore - 560 068. Ph.: 080-30251600/602, Fax: 080-30251619/1550

Eureka Forbes Limited. Corporate Office : B1/B2, 701, Marathon Innova, Marathon NextGen, Off Ganpatrao Kadam Marg, Lower Parel, Mumbai : 400 013, India. Phone : 022 - 30449700 022 - 30449888 Fax : 022 - 30449701 Mailing Address : P.O. Box 936 G.P.O., Mumbai - 400 001. India.

Wesbite http://www.eurekaforbes.com

Regd. Office : 7, Chakraberia Road (South) Kolkatta - 700 025. Phone : 033 - 2474 9342

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HR/Certificate/2016-08

Date: 16-02-2016

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. M. Sunil Dath (USN: 1KG14MBA14) student of K S School of Engineering and Management has successfully finished his Internship Project in our HINDUSTAN UNILEVER LIMITED.

Name of the Project: "Analysis of Supply Chain Management of Hindustan Unilever Limited".

Duration of the internship Project: From: 09-12-2015 to 16-02-2016.

We wish him all the success in his future endeavours.

For Hindustan Unilever Limited

orized Signatory

HINDUSTAN UNILEVER LIMITED 64 Main Road, Whitefield, Bangalore, Karnataka, India Tel : +91-22-39830000 Fax: +91-22-28249438 Email: lever.care@unilever.com



Right Choice Mind Set Legal Friend

Date: 20th Feb 2016

Subject: Study completion

This is to inform that Ms.Nidhi kumari, Student Ref USN no. 1KG14MBA18 Final year MBA student from K.S.S.E.M College Bangalore. Has conducted & completed her Project study from 8th Dec 2015 to 16th Feb 2016 in our firm on Topic <u>Recruitment Process.</u>

The final report on the said topic yet to be submitted to us.

For RML Management Consultants

Chief Consultant

Placements

Training & Development

Legal Services

585, 'VENKATESHA', 16th Main, 10th Cross, Padmanabhanagar, Bangalore - 560 070. Tel: 080-2679 1687, E-mail: kvsathya@rmlconsultants.com Website: www.rmlconsultants.com



FLORET CONSULTING

361 Ground Flace, 7th Cross Jayanagar (Block, Bangalore, 560,011 \$ +91-80-2656,5727 \$ info@floretconsulting.com

www.floretconsuting.com

17th Feb, 2016

To Whom So Ever It May Concern

This is to certify that Ms. Priyanka Rani (USN No: 1KG14MBA21), a student of KS School of Engineering & Management, Bangalore has successfully completed her Internship in our organization from 7th December 2015 till 17th February 2016.

During her tenure as an Intern with Floret Consulting, she has worked on project titled "Impact of Social Media in Recruitments" and have also worked on Sourcing / Profiling through Social Media.

During her Internship duration with us, we found her as sincere, hardworking and a dedicated professional.

We wish her all the very best for her future endeavors.

For Floret Consulting Shilpi Sarkar

HR Executive



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IMAGE LABELS PVT. LTD.

No. 10, Vejarahall, Off Kanakapura Road, Bangatore - 560 052. Phone : 060 - 2642 5555 / 2608 7000, Fix: 080 - 2842 5678, E-mail : admin@imagefabels.in, www.imagefabels.in



Date: 17-02-2016

CERTIFICATE

This is to certify that Ms. Rakshitha .T.M (Reg No 1KG14MBA22), student of K. S. School of Engineering & Management, No.15, Mallasandra, Off Kanakapura Rond, Banagalore-62 has successfully completed her internship on "A STUDY ON MEASURE OF QUALITY OF WORKLIFE OF EMPLOYEES AT IMAGE LABELS PRIVATE LIMITED", HANGALORE, for a period of 10 weeks from 14/12/15 to 17/2/2016.

3

We wish all the best for her future endeavors.

For Image Labels Pvt. Ltd.,

(K.JAVAKUMAR)

' General Manager - IIR

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KAVIKA/PA/2015-2016/

Date: 05-03-2016

CERTIFICATE

This is to certify that Mr. R NARESH KUMAR., USN1KG14MBA23 Student of IV Semester M.B.A (Master of Business Administration) Studying at K.S School of Engineering and Management Bangalore-560062 has undergone Internship Training in the area of 'A Study On Employee Satisfaction' in our Organization for a period of Two month from 19-12-2015 to 19-2-2016.

We wish him all success in his future endeavour.

for KARNATAKA VIDYUTH KARKHANE LIMITED

63/16 (N.S. SURESHNATH) DEPUTYMANAGER-QUALITY CONTROL PERSONNEL & ADMINISTRATION-I/c

ಕಾರ್ಖಾನೆ ಮತ್ತು ಆಡಳಿತ ಕಛೇರಿ : ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ಕಾರ್ಖಾನೆ ನಿಯಮಿತ, ಅಂಚೆ ಪೆಟ್ಟಿಗೆ ಸಂಖ್ಯೆ 2010, ಮೈಸೂರು ರಸ್ತೆ, ಬೆಂಗಳೂರು - 500 020. FACTORY & REGISTERED OFFICE : KARNATAKA VIDYUTH KARKHANE LIMITED, POST BOX NO. 2610, MYSORE ROAD, BANGALORE - 560 026.

080-26744291

ದೂರವಾಣೆ :) 26748274, 26743331, Telephones : \$ 26742337, 26752934 26987200

md@kavika.co.in

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No.Bamul/Admn-01/Cert/2015-16

Date: 24.02.2016

<u>CERTIFICATE</u>

This is to Certify that Mr. Sathish R, M.B.A. Student of K,S.School of Engineering L Management has successfully completed the Project on "A Study on Brand Awareness" from Date: 09.12.2015 to 14.02.2016 at Bengaluru Urban, Bengaluru Rural and Ramanagara District Co-Operative Milk Producer's Societies Union Ltd., Bengaluru- 560029.

> General Manager(admn) Bengaluru Co-op Milk Union Ltd.,

<u>ಟೆಂಗಳೂರು ದೇರಿ: ರಾ. ಎಂ.ಪೆಚ್.ಮಂಗೌಡ ರಸ್ತೆ ದಂಗಳೂರು-560 029</u> ಕನ್ನಮರ್ ಕೇರ್: 080-25539123, ಸೆಕ್ನೂರಿಟಿ ಅಫೀಸ್ : 080-26096287, ಫ್ಯಾಕ್ಟ್ : 080-25536597 Phone : Customer Care : 080-25539123, Security Office : 080-26096287 Fax : 080-25536597 Email : bamulkmf@yahoo.co.in Website : bamulnandini.coop</u>



TO WHOM IT MAY CONCERN

This is to certify that MR. THOKALA RAKESH (1KG14MBA28) from K S SCHOOL OF ENGINEERING & MANAGEMENT COLLEGE, Bangalore has successfully completed an internship and project titled "A STUDY ON CUSTOMER SATISFACTION AT SAVOURY SEASHELL RESIDENCY, BENGALURU" in partial fulfillment of the requirement for the award of him MBA degree from Visvesvaraya Technological University. The period of the project was from 14th December 2015 to 17th February 2016.

During the above period, performance and conduct of MR.THOKALA RAKESH (1KG14MBA28) has been good and satisfactory.

We wish him all the best for his future endeavors.



Place: Bengaluru Date: 17/Feb/2016

> No. 10 | Bhavani Layout | Next to Maruthi Sagar Automobiles Bannerghatta Main Road |Bangalore - 560 029 | Ph: 080 49355500 Email: info@savouryseashell.com | savouryseashell.residency@gmail.com Website: www.savouryseashell.com

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BMA Wealth Creators Ltd.

CERTIFICATE

This is to certify that Mr VINAY.V USN: 1KG14MBA30 a student of MBA studying at K.S SCHOOL OF ENGINEERING & MANAGEMENT Bangalore has undergone the internship and has completed project titled as "A STUDY ON ANALYSIS OF INVESTMENT OPTIONS" at BMA Wealth Creators Ltd (Jayanagar Bangalore Branch) from a period of 14th December 2015 to 14th February 2016 in our company under the guidance of Mr. RASHMI RANJAN PADHI.

We wish to express our appreciation for his excellent work done and wish him all the success in her new endeavour.

Place: Bangalore

External Guide

Date: 25-Feb-2016

RASHMI RANJAN PADHI (Unit Head-Karnat rate Office:

Vishwakarma II 29/5A, Dr. Ambedkar Sarani, Topsia Road, Kolkata - 700046 PH : 033-400110099

Regd. Office: 14/1, Paul Mansion, 1st Floor, 6, Bishop Lefroy Road. Kolkata 700020

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Groundwater Exploration Using Electrical Resistivity Meter is a bonafide work carried out by

Shruthi P Reddy	1KG11CV034
Soundarya V	1KG11CV035
Pani Raj Patil	1KG12CV410
Ravi Kumar S	1KG12CV415

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Dr Vyshal, yohal. Name and Signature of

Internal Guide 1

Veena. T witiggul. Name and Signature of Internal Guide 2 Wittelle

Head of the Department

Wille

Principal/ Director

University Examiners Name and Signature of Examiner-1

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Strenght Aspects Of Glass Fibre Reinforced Concrete is a bonafide work carried out by

Madamanchi Surendranadh	1KG11CV013
Niraj Pradhan	1KG11CV019
Rakesh Choudhary G.C.	1KG11CV028
Uttam V.B.	1KG10CV042

in partial fulfilment for the award of Batchelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature

Internal Guide

University Examiners:

ustelle

Head of the Department Professor & Head Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

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Principal/ Director Principal / Director K.S. School of Engineering & Management Bangalore-560 062

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled Experimental Studies on Bearing Capacity of T-shaped Footing on Granular Soils a bonafide work carried out by

> Rabin Adhikari Joshua F. Njau Rohit Patra Devarish G. Gowda

1KG10CV027 1KG11CV011 1KG11CV030 1KG12CV403

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

AREKAL VIJAY

Name and Signature of Internal Guide

malle

Head of the Department Professor & Head Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

makelle

Principal/ Director Principal / Director K.S. School of Engineering & Management Bangalore-560 062

University Examiners:

Name and Signature of Examiner-1

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certíficate

This is to certify that the project work entitled **Experimental Study on Hybrid** fibre Reinforced Concrete with the Addition of Polymer (SBR) is a bonafide work carried out by

Deepak . B. N	1KG11CV404
Nagaraj . P	1KG12CV408
Nandini . S	1KG11CV018
Vignesh . W	1KG12CV419

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Kaperni

Name and Signature of Internal Guide Hickes sufficielead

marile

Principal/ Director

DeptDofieiwithEngineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062. Bangalore-560 062

University Examiners:

Name and Signature of Examiner-1

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled **Development of fibre reinforced light weight concrete** is a bonafide work carried out by

Chetan.P	1KG11CV402	
Sunetra.K.R	1KG11CV037	
Vinaya Shree.S	1KG12CV420	
Vinod Kumar.K	1KG11CV043	

in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

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Name and Signature of Internal Guide Name and Signature of Industrial Guide

WAlcebe

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Head of the Department Professor & Head

Principal/ PriDirector/

Professor & Head Dept. of Civil Engineering & Line K.S. Group of Institutions Bangalore-560 062

K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

witcelle

Name and Signature of Examiner-1

B. Judice 96/15

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Civil Engineering

Certificate

This is to certify that the project work entitled RE DESIGN OF TRAFFIC SIGNAL AT BANASHANKARI JUNCTION is a work carried out by

- Rajshekar M Rohith R Rohith S Vishwas S
- 1KG11CV026 1KG11CV031 1KG11CV032 1KG11CV044

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-2015. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Wheele

Name and Signature of Internal Guide

Head of the Department

marile

Principal/ Director

University Examiners:

Name and Signature of Examiner-1

K.S. School of Engineering and Management No. 15, Sollisandra, of Kanakapura Russi, Beogneou 560167



Department of Computer Science and Engineering

Certificate

This is to asside that the project work mittled "Mereilage using Corners and EFY? Dissiging Termique with Client Server Lammonscation" is a Sonafide work April and Sec.

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in pursual fail times, for the amond of Buchelly of Inglanaving in Lampaday Science. dist Engineering of Virvervances Section optical Oncorreity, Dilagana, during the pare receives. R is carried and the suppretions indicated duries and internal assessment have been incorporated in the request unit the thesis saturing the actidents requirimment in respect of project work prescribes for the algorith.

Mr. Lucasser Charmanaire Assertant Punkster, hierel Cente

Dy B.K. Faglereara Performent Heal Department of CSE H30

R. S.S. Station

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University Examinent:

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R.S. Aleens

Name and Nontarure of Examinary-

of Name and Signature of Francisco-2

K.S.SCHOOL OF ENGINEERING & MANAGEMENT

#15, Mallasandra, off Kanakpura Road, Bengaluru-560062

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project work on "DEVELOPMENT OF FRAMEWORK TO PROVIDE DATA SECURITY FOR NoSQL DATA IN CLOUD" carried out by Ms. ANKITA D. PAI, bearing the USN 1KG13SCS01, a bonafide student of K. S. SCHOOL OF ENGINEERING AND MANAGEMENT, Bengaluru in partial fulfillment for the award of the degree of Master of Technology in Computer Science and Engineering of the Visvesvaraya Technological University, Belagavi during the year 2014-2015. It is certified that all corrections/ suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Mrs. Veena R. S

Associate Professor Department of CSE KSSEM, Bengaluru

Dr. B. K Raghavendra Professor & Head. Department of CSE Dept. of Computer Sciences Engineering K.S. Scheel of Engineering & Management K.S. School of Engineering & Management

Bangalore-560 062. External Viva

Dr. S. N Sridhara

Principal/Director KSSEM Bringingh/ Director

Signature & Date

Name of the Examiners

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication

Certificate

This is to certify that the project work entitled is a bona fide work carried out by

Diwesh Jaiswal.A Guruprasad.S Karthik.D Rohitha.H.V 1KG10EC016 1KG11EC023 1KG11EC028 1KG11EC063

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communication Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

fer n

Signature of Internal Guide **Dr.Fathima Jabeen** Professor & Head, Department of E.C.E <u>P</u><u>t</u><u>o</u><u>8</u><u>0</u><u>6</u><u>1</u><u>5</u> Signature of Co-Guide **Mr.Puneeth.S** Assistant-professor, Department of E.C.E Head of the Department **Dr.Fathima Jabeen** Department of E.C.E

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Principal/ Director Dr.S.N.Sridhara K.S.S.E.M

C.E Professor & Head, Principal / Director Dept. of Electronics & Communication Engineering & Management K.S. Group of Institutions Banyalore-560 062 K.S. School of Engineering & Management Bangalore-560 062.

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Department of Electronics and Communication

Certificate

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Diwesh Jaiswal.A Guruprasad.S Karthik.D Rohitha.H.V

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ten n

Signature of Internal Guide Dr.Fathima Jabeen Professor & Head, Department of E.C.E

t 08/06/15 Signature of Co-Guide Mr.Puneeth.S Assistant-professor, Department of E.C.E

Funn Head of the Department **Dr.Fathima Jabeen** Department of E.C.E

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Principal/ Director Dr.S.N.Sridhara K.S.S.E.M

Principal / Director

Dept. of Electronics & Communication Engineering & Manageneering Banyalore-560 062 k.S. Greep of Institutions

K.S. School el Engineering & Management Bangalere-560 062.

University Examiners:

Name and Signature of Examiner-1

Name and Signature of Examiner-2

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum-590018



A Project Work Report on

"Automatic Traffic Signal Control and the Patient Data Transmission for Emergency Service Vehicle using ARM controller"

Submitted in partial fulfilment of the requirements For the award of degree of

Bachelor of Engineering In Electronics and Communication Engineering By Rangadhama.J 1KG11EC058

Sushma.D Pavithra.V Umesh Yadav.R 1KG11EC058 1KG11EC075 1KG11EC405 1KG12EC409

Under the Guidance of

Guide: Mrs. Gunasheela .T .J Assistant Professor, Department of ECE, KSSEM Bangalore. Co-Guide: Dr. Karthik .P Associate Professor, Department of ECE, KSSEM Bangalore.



Department of Electronics and Communication Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062 2014-15

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering Certificate

This is to certify that the project work entitled "Automatic Traffic Signal Control and the Patient Data Transmission for Emergency Service Vehicle using ARM controller" is a bonafide work carried out by

Rangadhama.J	1KG11EC058
Sushma.D	1KG11EC075
Pavithra.V	1KG11EC405
Umesh Yadav.R	1KG12EC409

in partial fulfilment for the award of **Bachelor of Engineering in Electronics and** Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirements in respect of project work prescribed for the degree.

Signature of Guide Mrs.Gunasheela T.J Assistant Professor, Department of ECE, KSSEM

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Signature of Co-Guide Professor, Head of Principal The Edirector Dr. Karthik Bept of Electronic Departmentation Engineering, S.N. Sridbarg & Management Associate Professor, Dr. Fathinia Jatieni A.S. School KSSEM Department of ECE, K.S. School of FCE agement Bangalore-560 082 KSSEM Bangalore-560 082

University Examiners:

Name and Signature of Examiner-2

Name and Signature of Examiner-1

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Microcontroller Based Voice Controlled MP3 Player

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electronics and communication Engineering

Submitted by

Vinodh Kumar.B Manoj Raja .E Yoganand.E Udaya Kiran.R 1KG10EC010 1KG10EC017 1KG11EC017 1KG11EC412

Under the Guidance of

GUIDE: Mrs SHANTHALA.G.M Asst. professor Department of ECE

3

CO-GUIDE: Mr MANU.D.K Asst.professor Department of ECE



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No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics and Communication Engineering

<u>Certificate</u>

This is to certify that the project work entitled microcontroller based voice controlled mp3 player is a bonafide work carried out by

Vinodh Kumar.B	-	1KG10EC010
Manoj Raja .E	-	1KG10EC017
Yoganand.E	-	1KG11EC017
Udaya Kiran.R	-	1KG11EC412

in partial fulfilment for the award of Bachelor of Engineering in Electronics and communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Guide Mrs.Shanthala G.M Asst.Professor Dept. OF ECE KSSEM



Mr.Manu.D.K Asst.Professor Dept. OF ECE KSSEN

Head of the Dept. Dr.Fathima jabeen Dept. OF ECE,

mallelle

Principal/ Director Dr.S.N.Sridhara **KSSEM**

K.S. Group of Institutions

Professorafiead

Principal / Director of Electronics & Communication KnSinSchupl of Engineering & Managem

Bangalore-560 062

University Schalat Fraiseering Schanagement Bangalore-560062.

Name and Signature of Examin

Name and Signature of Examiner-2

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A Wireless Based Patient Monitoring System Using Android Technology

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electronics and Communication Engineering

Submitted by

B.Sneha Bhavana.V Brunda.S Murali.T.S 1KG11EC006 1KG11EC008 1KG11EC009 1KG11EC036

Under the Guidance of

Puneeth.S Assistant Professor Department of ECE KSSEM,Bangalore

Ravikiran.B.A Assistant Professor Department of ECE KSSEM,Bangalore



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No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560062



Department of Electronics and Communication Engineering

Certíficate

This is to certify that the project work entitled A Wireless Based Patient Monitoring System Using Android Technology is a bonafide work carried out by

B.Sneha1KG11EC006Bhavana.V1KG11EC008Brunda.S1KG11EC009Murali.T.S1KG11EC036

in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belagavi, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

T 56/A/15 Signature of Guide Mr.Puneeth.S Assistant Professor Department of ECE, KSSEM BAM_U_ Signature of Co-Guide

Mr.Ravikiran.B.A

Assistant Professor

Department of ECE,

KSSEM

feren 6/1/15

Professor, Head of Department **Dr.Fathima Jabeen** Department of ECE, KSSEM

Principal/Director Dr.S.N.Sridhara KSSEM

Principal / Director K.S. School of Engineering & Manageme

Professor & Head K.S. School of Engineering Bangalore-560 062 K.S. Group of Institutions

K.S. School of Engineering & Management

University Examiners:

Name and Signature of Examiner-1

Bangalore-560 062.

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Design and Implementation of Helmet to Track the Accident Zone and Recovery using GPS and GSM

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electronics & Communication Engineering

Submitted by

Deepak T.E1KG11EC014Shaikh Mubassir Ahmed1KG11EC065Yellavarthi Vaishnavi1KG11EC088

Under the Guidance of

Internal Guide: Dr. Karthik P Associate Professor Department of ECE

Internal Co-Guide: Mrs.Sindhu I M Assistant Professor Department of ECE



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No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electronics & Communication Engineering

Certíficate

This is to certify that the project work entitled Design and Implementation of Helmet to Track the Accident Zone and Recovery using GPS and GSM is a bonafide work carried out by

Deepak T.E	1KG11EC014
Shaikh Mubassir Ahmed	1KG11EC065
Yellavarthi Vaishnavi	1KG11EC088

of Engineering in Electronics & Communication Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Dr. Karthik P Associate Professor Dept. of ECE KSSEM

Mrs. Sindhu I M Assistant Professor Dept. of ECE KSSEM

Jun ge

Dr. Fathima Jabeen Professor & Head Dept. of ECE KSSEM

Dr. S. N Sridhara

Principal/ Director KSSEM

Principal Disoctor S School of Engineering & Management Bangalore-560062

Dept. of Electronics & Communication Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Professor & Head

Name and Signature of Examine

hopolalingthia ch

Name and Signature of Examiner-2

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Energizing Circuit For Electromechanical Contactors

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Arshad ulla Tejashwini K Prajwal K T

1KG11EE001 1KG11EE005 1KG11EE009

Under the Guidance of

Mr.Hariprasad. Y Asst. Professor Department of E&E Engineering KSSEM, Bengaluru



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No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled "Energizing Circuit For Electromechanical Contactors" is a bonafide work carried out by

Arshad ulla Tejashwini K Prajwal K T 1KG11EE001 1KG11EE005 1KG11EE009

in partial fulfilment for the award of **Bachelor of Engineering in electrical and** electronics Engineering of Visvesvaraya Technological University, Belagavi, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

B.K.Ma

Head of the Department Principal/ Director

Professor & Head Principal / Director Dept. of Electrical & Electrosics Engineering & Managemer K.S. Group of Institutions Bangalore-560 062 K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

DS. B.R. NATARAJAN B.R. MR

5/6/11 Biclayi Ramalarhua

Name and Signature of Examiner-2

Ultra-Fast Switching Electronic Circuit Breaker with GSM

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Roopini.C	1KG11EE010
Vinod Kumar.R	1KG11EE017
Rakesh.R	1KG12EE401

Under the Guidance of

Mr. Satish Kumar D Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



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No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Ultra-Fast Switching Electronic Circuit Breaker with GSM is a bonafide work carried out by

Roopini.C	1KG11EE010
Vinod Kumar.R	1KG11EE017
Rakesh.R	1KG12EE401

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

D. Likken BRM

). SATIJH KUMAR Name and Signature of Internal Guide

Head of the Department Professor & Head

Bangalore-560 062.

Principal/Director

Principal / Director Dept. of Electrical & Electronics Engineering School of Engineering & Management K.S. Group of Institutions Bangalore-560 062 K.S. School of Engineering & Management

University Examiners:

1611

Name and Signature of Examiner-2

Name and Signature of Examiner-1

SOLAR SMART INVERTER

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering In Electrical and Electronics Engineering

Submitted by

Manedi Bhanu Prasad T.S.Harshitha Sumesh R.N

1KG12EE400 1KG11EE016 1KG10EE032

Under the Guidance of

Mrs.Manjula .B.G Asst.Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



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No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Solar Smart inverter is a bonafide work carried out by

Manedi Bhanu Prasad	1KG12EE400
T.S.Harshitha	1KG11EE016
Sumesh R.N	IKGI0EE032

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

.

Name and Signature of Industrial Guide

B.A. mal Head of the

Principal/

Properationentid Director Dept. of Electrical & Electronics Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062. Bangalore-560 062

University Examiners:

816/11 Name and Signature of Examiner-2

Regulated Power Supply with Digital Control

A Project Work submitted to



Visvesvaraya Technological University in partial fulfilment of the requirements for the award of degree of

Bachelor of Engineering in Electrical and Electronics Engineering

Submitted by

Manju Mukesh Reddy.C.S 1KG11EE007 Swetha Sastry B.G 1KG11EE015

Under the Guidance of

Mrs. Ramyashree. H.P Assistant Professor Department of Electrical and Electronics Engineering KSSEM, Bangalore



Department of Electrical and Electronics Engineering K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062 2014-15

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Electrical and Electronics Engineering

Certificate

This is to certify that the project work entitled Regulated Power Supply with Digital Control is a bonafide work carried out by

> Manju Mukesh Reddy.C.S 1KG11EE007 Swetha Sastry B.G 1KG11EE015

in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

RAMYASHREE H.P.

Name and Signature of Internal Guide

Name and Signature of Industrial Guide

BAMA

Head of the Principal Director

Department Professor & Head Principal / Director Dept. of Electrical & Electronics E K.S. Group of Institution of Engineering & Managam K.S. School of Engineering & Manag Bappalore-560 061 Banyalore-560 062.

University Examiners:

DY. B.R. MATADASA A.K.M

Name and Signature of Examiner-1

8/6/11 Balaji Ramaking

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled **Design and Analysis of a Rotary** Shaft Seal for Crank Shaft Application is a bonafide work carried out by

Mohan kumar aradhya H M	1KG10ME033
Monish H R	1KG10ME035
Rudragouda	1KG10ME042
Vedamurthy G R	1KG10ME050

in partial fulfilment for the award of **Batchelor of Engineering in Mechanical** Engineering of Visvesvaraya Technological University, Belgaum, during the year 2013-14. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

lep/06/06/15 lep.B.N.

Name and Signature of Internal Guide Name and Signature of Industrial Guide

Head of the Principal/ Department Director Professor & Head Principal / Director Dept. of Mechanical Engineering Ingineering & Management K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

Name and Signature of Examiner-1 Scanned with CamScanner

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Automatic Gear Transmission Bicycle" is a bonafide work carried out by

K R KISHAN	1KG11ME021
KARTHIK S MURTHY	1KG11ME023
PRUTHVI K V	1KG11ME039
SHASHI KIRAN C R	1KG11ME046

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

106/18

Internal Guide

University Examiners:

JYOK PN

Name and Signature of Examiner-1 CamScanner

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Head of the Department Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Principal/ Director

Principal / Director K.S. School of Engineering & Management Bangalore-560 062

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560062



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled **"Structural Design And Analysis Of** Seat Support Of A Microlight Aircraft" is a bonafide work carried out by

ABHINAV RAJ	1KG11ME001
ABHISHEK K	1KG11ME002
SUHAS B S	1KG11ME048
VINAYAKA K C	1KG11ME053

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Santoch lumar K.T.

Name and Signature of Internal Guide

NAMAN DUGAR

Name and Signature of Industrial Guide

Head of the Department Professor & Head

Wille

Principal/ Director Principal/Direc

Dept. of Mechanical Engineering School of Engineering & K.S. Group of Institutions K.S. School of Engineering & Mar.agement Bangalore-560 062.

University Examiners:

Jyoun PH

Name and Signature of Examiner-1 CamScanner

Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Design and Fabrication of a Water Table for Flow Visualisation and Analysis is a bonafide work carried out by

Bharath Hemanth	1KG11ME008
Bhargav. V	1KG11ME010
Pavan Kumar. A	1KG11ME037

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2013-14. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Principal

Department Professor & Head

K.S. School of Engineering & Management

Bangalore-560 062.

Director Principal/Director Dept. of Mechanical Engineeti8gSchool of Engineering & Management

Bangalore-560 062

University Examiners:

JyolinpN

Name and Signature of Examiner-1

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Name and Signature of Examiner-2

Dr. Davaninhe

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Investigation of Performance and Behaviour of Cylinder Liner made of Hypereutectic aluminium Silicon alloy with Lining of Copper with varying thickness is a bonafide work carried out by

> Avilash Jha Gnanamurthy D.B Sriranga T.A Vaibhav M.S.

1KG11ME006 1KG11ME016 1KG10ME047 1KG10ME049

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

JYOTH PN

Name and Signature of Internal Guide

Head of the Department

Professor & Head

Bangalore-560 062.

Principal/ Director Principal / Director Dept. of Mechanical Engineering School of Engineering & Managen Bangalore-560 062 K.S. Group of Institutions K.S. School of Engineering & Management

University Examiners:

JyolinpN

Name and Signature of Examiner-1 Scanned with CamScanner

Dr. Narahmhe cous Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Investigation of Material properties of Al-5%Si alloy reinforced with Cow dung and Rice husk ash" is a bonafide work carried out by

> Bharath kumar B.S. Pavan kumar G

1KG11ME009 1KG12ME409

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide Head of the Department

Principal/ Director

Professor & Head Principal/Director Dept. of Mechanical Engineering K.S. Group of Institution S.S School of Engineering & Management K.S. School of Engineering & Management Bangalore-560 062 Bangalere-560 062.

University Examiners:

Name and Signature of Examiner-

Name and Signature of Examiner-1

amScanner

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Fabrication and Experimental Setup for Misalignment of Magnetic Coupling test" is a bonafide work carried out 64

> GANESH KUMAR M J V MANJUNATH B J NISHANTH NAG H D **PAVAN KUMAR B**

1KG11ME015 1KG11ME028 1KG11ME036 1KG12ME410

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

TUVARAJA NALK fairle 0906/14

Name and Signature of Internal Guide

Head of the Department

Principal/ Director

Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Principal / Director K.S. School of Engineering & Manageman Bangalore-560 062

University Examiners:

CamScanner

Jyolhi PN

Name and Signature of Examiner-1

Scanned with

Name and Signature of Examiner-2 Dr. Naranne puda

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Experimental evaluation of optimal Ethanol-Gasoline blend percentage under variable compression ratios in a Four Stroke Digital Twin Spark Ignition Engine, is a bonafide work carried out by

Manjunatha H R	1KG11ME029
Rajesh T S	1KG11ME041
Vinay H K	1KG11ME052

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

BKM SEL6115

Name and Signature of Co- Guide

Head of the

Principal/

Director

Department Professor & Dept. of Mechanical Engineering Principal / Director K.S. Group of the Wiss School of Engineering & Management · anagementingalore-560 062 K.S. School of Er Ballyainic-unu und.

University Examiners:

JYOIMPN

Name and Signature of Examiner-1

Scanned with CamScanner

Dr. Navan mbro Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Dual mode system to increase the performance of two wheelers is a bonafide work carried out by

Akiff Delvi	1KG11ME003
Bharath D	1KG11ME007
Gourav K	1KG11ME017
Mohammed Hammood Hussain	1KG11ME030

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

12/05/06/15 ash deep: 12

Name and Signature of Internal Guide

Head of the Professor a Headt Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Principal / Director

Principal/Director K.S. School of Engineering & Management Bangalore-560 062

University Examiners:

HOLL PN

Name and Signature of Examiner-1 CamScanner

Dr. Dr. alimb

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "STUDY OF SURFACE FINISH AND CHIP FORMATION DURING TURNING OPERATION OF MILD STEEL USING NON-EDIBLE OIL AS METAL CUTTING FLUID" is a bonafide work carried out by

ANAJAN R	1KG12ME400
JAGATH J K	1KG12ME405
SAMEER RAJENDRA NAYAK	1KG12ME416
SHIVARAJ G	1KG12ME417

In partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Alsklis Alam Radhika

Name and Signature of Internal Guide

University Examiners:

Name and Signature of Examiner-1

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Head of the Department Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Director

Principal / Director K.S. School of Engineering & Management Bangalore-560 062

K.S. School of Engineering and Management No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Fabrication of Multi-Purpose Go-Kart is a bonafide work carried out by

Harsha V R	1KG11ME019
Likith Sagar B	1KG11ME024
Shashank M S	1KG11ME045
Vijaya Vittala A	1KG11ME051

in partial fulfilment for the award of Batchelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of Internal Guide

Head of the Department

Professor & Head Bept. of Mechanical Engineering K.S. School of Engineering & Management K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Principal/ Director

Principal/Director Bangalore-560 062

University Examiners:

CamScanner

JYOW PN

Name and Signature of Examiner-1

Dr. Aprasimhy Name and Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled "Experimental Investigation to Study the Variation In Crank angle diagram with respect to different operating conditions using ethanol gasoline blend", is a bonafide work carried out by

Jithin Ganesh	1KG10ME020
Sharana Basappa Wurli	1KG10ME045
Mohammed Zahid	1KG11ME031
Prakash J	1KG12ME412

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

06.06.15

Name and Signature of Internal Guide

Rtw0616/15

Co-Guide

Name and Signature of

Head of the

Department

infelle

Principal/ Director

Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions of Engineering & Management K.S. School of Engineering & Management Bangalore-560 062.

University Examiners:

Jyoin Pr

Name and Signature of Examiner-1

Name and Signature of Examiner-2 De paran ml

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Department of Mechanical Engineering

Certificate

This is to certify that the project work entitled Portable biogas generating unit, is a bonafide work carried out by

Ranjith kumar N	1KG11ME406	
Deepak B N	1KG11ME401	
Lakshmikanth R	1KG11ME403	
Venkataramana reddy	1KG11ME011	

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Name and Signature of

Internal Guide

Name and Signature of

Co- Guide

Professor & Head

K.S. School of Engineering & Management

Bangalore-560 062.

Department

Principal Director

Principal/Director Dept. of Mechanical EngineeringK.S. School of Engineering & Management Bangalore-560 062

University Examiners:

JyOlhi PN

Name and Signature of Examiner-1

Name and Signature of Examiner-2 Dr. Navafunt

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled Design and fabrication of portable suitcase car is a bonafide work carried out by

Kishore.R Puneeth.N Shivkumar Venkatesh Prasad.P.R

1KG12ME406 1KG12ME414 1KG12ME418 1KG12ME419

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Jame and Signature of Internal Guide	Head of the Department	Priprinel Dar Director
in antipa-ap in an isa in	Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions	School of Engineering & Manageme Bangalore-560 062
Jniversity Examiners:	K.S. School of Engineering & Management Bangalore-560 062.	
In Join	D M	
Name and Signature of Ex	kaminer-1 Name and	d Signature of Examiner-2

No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



Department of Mechanical Engineering

Certíficate

This is to certify that the project work entitled AutomaticControl of Drilling Machine Using GSM Technology is a bonafide work carried out by

> Mr.MohneshAnand S Mr.Raghukumar J Mr.Manikantha P

1KG11ME034 1KG11ME040 1KG11ME027

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum, during the year 2014-15. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

Signature of Guide

Head of the Department Professor & Head Dept. of Mechanical Engineering K.S. Group of Institutions K.S. School of Engineering & Management Bangalore-560 062.

Principal/ Director

Principal / Director Principal / Director K.S. School of Engineering & Management Bangalore-560 062

University Examiners:

JOIN PN

Name and Signature of Examiner-1

Name and Signature of Examiner-2 Dr- Naranihyour

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Plot # 18, Bidadi Industrial Area, Bidadi Hobli, Ramnagar Dist., Bangalore - 562109. Phone: 080-7287109-87111, Fax: 080-7287104

Ref. HR/PR/06-2015

14th February 2015

TO WHOM SOEVER IT MAY CONCERN

This is to certify that, Ms. Hima Bindu .C (Reg No .1KG13MBA07), student of MBA –H R .from K S School of Engineering & Management, She/he has done his/her Academic project training under titled "Employee Engagement" with us, with special reference to HCCBPL, Bidadi. She/he has worked with us for a period of 12 Weeks, starting from 8th December, 2014 to 14th February, 2015.

During his/her stint with us, his/her conduct is found to be satisfactory. We wish him/her success in all their future endeavors.

For Hindustan Corecta Beverages Private Limited

fain

Authorised Signatory Harini C Krishnappa Team Leader-HR

Hindulan Contis Summer Front L

Plot No. 18, Bidadi Industriai Area, Bidadi Hobii Ramanagar Diist., Bangalore-562 109

Classified - Personal Information

Regd. Office : B-91, Mayapuri Industrial Area, Phase - I, New Delhi - 110 064.





Ref: NOVO/HR/03-2015

2015, March 9th

To whom so ever it may concern

This to certify that Ms. JAHNAVI.K perusing MBA 4th sem, Human Resource at K.S School Of Engineering and Management (enrollment no. 1KG13MBA08) has carried out her "Internship Project" on "A STUDY ON STRESS MANAGEMENT AMONG EMPLOYEES" at NOVO IT CONSULTANTS AND SOLUTIONS PVT.LTD, Bangalore in our organization from 8th December 2014. to 14th February 2015.

During the above, we found her to be a good learner. We wish her all the very best for her future endeavors.

Karthik C Senior Manager



NOVO IT Consultants & Solutions Pvt. Ltd. # 143, 1st Floor, 10th % Main, 5th Cross, 1st Block, Jayanagar, Bangalore - 560 011. INDIA. Telefax : 91-80-40951060 E-mail: business@novoitindia.com Web:www.novoitindia.com

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CERTIFICATE

This is to certify that Ms. Lavanya P, Master of Business Administration Student (USN : 1KG13MBA11) of K S School of Engineering & Management, Bangalore, has undergone Project work on "Financial Analysis" in our Organisation, from 08.12.2014 to 14.02.2015.

We wish her all success in his future endeavors.

For Puravankara Projects Ltd,

(Mr.Vijayendra Kumar P) Sr. Vice President- Human Capital & Admin

Dated 10th March, 2015



PURAVANKAR



37/3, Gowdanapalya, Subramanyapura Main Road, Bangalore - 61. Tel : 080-26666012, 26666133 Fax : 080 - 26665884 E-mail : siddharthaent@gmail.com Website : www.servoflame.com / www.Greenchef.in

Date: 23/02/2015

TO WHOM IT MAY CONCERN

This is to certify that Ms. Mandara.B.U, Studied of MBA, Visvesvaraya Technological University, K.S. School of Engineering & Management Bangalore, She has successfully completed the project "A study on Inventory management" In Siddhartha Enterprises from 8th december-2014 to 14th February 15.

During the period of her internship programme with us, we are found punctual, hardworking.

We wish you success in her carrier.

For Siddhartha Enterprises

Manager- Human Recourses



Intime Equities Limited

(Formerly known as Fortune Equity Brokers (India) Limited)

Tel. : +91-80-49155400-499 Website : www.fortune.co.in NO. 57, 2ND FLOOR, 'GOLDEN TOWER', D V Q ROAD, BASAVANAGUDI, BANQALORE - 560 004

DATE: 20.03.2015

CERTIFICATE

This is to certify that Mr. Manohara K S, Reg. No. 1KG13MBA14, MBA student of, K S School of Engineering and Management, Bangalore. Has successfully completed project work, titled "A Study on Risk and Returns Involved in Various Investment Avenues at Intime Equities Limited, Bangalore", in our Organization for the period of 10 weeks, from 08.12.2014 to 14.02.2015, with respect to MBA curriculum under my guidance and supervision. During this period we found him taking good interest in completing the project.

I wish him all the best in his future endeavors and career.

Yours truly

ITIE BANGALO

Mr/KS Sayeesh, Team Leader Operations, Intime Group, Bangalore

> 59, SONAWALA BLDQ., 1ST FLOOR, B. S. MARQ, FORT, MUMBAI - 400 001. TEL. : +91-22-2263 4478 - 83 • FAX : +91-22-2263 4484

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भारत हेवी इलेक्ट्रिकल्स लिमिटेड

इलेक्ट्रोपोर्सलेन्स डिवीज़न, बेंगलूर - 560 012

Bharat Heavy Electricals Limited



(A GOVERNMENT OF INDIA UNDERTAKING) ELECTROPORCELAINS DIVISION Prof. C.N.R. Rao Circle, Science Institute Post, Malleswaram, BANGALORE - 560 012 INDIA Website : www.bhelceramics.com

Phone : 080-22182210 Fax : 080-23344231

REF: EPD:3405:020:PRJ:13 DT: 14.02.2015

CERTIFICATE

CERTIFIED THAT

Ms. N MANJUSHREE 1KG13MBA15

Who is pursuing studies for the award of Degree in MBA from "KS SCHOOL OF ENGINEERING & MANAGEMENT, " has completed the Project Work on "A STUDY ON QUALITY OF WORK LIFE" in BHEL-EPD, Bangalore from 08.12..2014 to 27.12.2014.

Ms. N MANJUSHREE took another 7 weeks in preparing the Project report.

Ms. N MANJUSHREE has submitted the Project Report on the above Project Study.

(S.KUMARASWAMY)

MANAGER/ LC & HRD

हैरेट्रो इंट्रेंटे: ಬಿಎಚ್ಎಎಲ್ ಹೌಸ್, ಸಿವಿಫೋರ್ಟ್, ನವದೆಹಲಿ-110049 पंजीकृत कार्यालय : बी.एच.ई.एल. हाउस, सिरी फोर्ट, नई दिल्ली-110049 REGD. OFFICE : BHEL HOUSE, SIRI FORT, NEW DELHI-110049

URS Systems Pvt Ltd 1" Floor, Pine Valley Embassy Golf Link Business Park Domlur Intermediate Ring Road Bangalore – 560071, India T. +91 80.41764505 F. +91 80.41764568 Date: 27th Feb, 2015

To Whom It May Concern

This is to certify that Ms. Nang Onka Manpoong (USN No: 1KG13MBA16), MBA(HR), (Session: 2013-2015) of K. S. Group of Engineering & Management, Bangalore has undergone 10 weeks internship training on titled "Recruitment Method" at URS Systems Pvt. Ltd., Bangalore w.e.f. 08th Dec, 2014 to 13th Feb, 2015. During the training she has shown tremendous learning Propensity.

We wish her all success in her future endeavors.

For URS Systems Pvt. Ltd.

Sajan Kumar HR Manager

Branch Office:

#43, 1st Floor PMR Tower Bertanagrahara, Hosur Main Rd. Electronic City (PO), Bangalore – 560100 Ph. No: +91-80-25743022; Web: http://www.urssystems.com



x02: 5. 00. 5. x0/2,5./ Ref. No. KSFC/H.O/Pers 2014-15 469

CERTIFICATE

This is to certify that Ms. Anusha N (1KG13MBA17) Student of Master of Business Administration (MBA), KSSEM College Bangalore has carried out her internship project work in our Organisation under the guidance of Sri. GopalaKrishna Hegde, Manager (F&A)PP, KSFC Head Office Bangalore and submitted report . " A STUDY ON TRAINING PROCEDURES AT KARNATAKA STATE FINANCIAL CORPORATION".

AHand MANAGER (PERS) 16/3/2015

BANGALORE DATE: 16/03/2015

ಪ್ರಧಾನ ಕಛೇರಿ : ಕೆ.ಎಸ್.ಎಫ್.ಸಿ. ಭವನ, ನಂ. 1/1, ತಿಮ್ಮ ಯ್ಯ ರಸ್ತೆ, ಕಂಟೋನ್ ಮೆಂಟ್ ರೈಲ್ವೆ ನಿಲ್ದಾಣದ ಹತ್ತಿರ, ಬೆಂಗಳೂರು - 560 052. ದೂರವಾಣ ಸಂಖ್ಯೆ ಸಾಮಾನ : 22263322 ತಂತಿ: ಮೈಫನ್ ಕಾರ್ಸ್, ಫಾಕ್ : 080-22250126 ಇ-ಮೇಲ್: info @ksfc.in ವೆಬ್ ಸೈಟ್:www.ksfc.in HEAD OFFICE : KSFC Bhavan, No. 1/1, Thimmaiah Road, Near Cantonment Railway Station Bangalore - 560 052 Telephone : Gen : 22263322 Telegrams : MYFINCORP, Fax : 080-22250126, E-mail : info @ksfc.in, website: www.ksfc.in

Avasarala Technologies Limited



60, K Choodahali Somanahali Gate 26° KM, Kanakapura Road, Bangalore - 560 082, INDIA Phone: +91 (80) 2608 3300 Fax: +91 (80) 2608 3301 e-mail, info@avasaraia.com



ATL/HRD/2015

6th March, 2015

To Whomsoever it may Concern

This is to certify that Ms.Poornima M S pursuing M.B.A IVth Sem, Human Resource at K.S School of Engineering and Management (enrollment no. 1KG13MBA18) has carried out her "Internship Project" on "A study on Employees Health & Safety Measures" at Avasarala Technologies Limited in our organization from 8th December, 2014 to 14th February, 2015.

During the above period, we found her to be a good learner.

We wish her all the very best for her future endeavors.

For Avasarala Technologies Ltd.,

Kiran Kumar Deputy Manager – HR & Admin

Regd. Office & Corporate Centre: # 47, 36th Main, B.I.M 1st Stage, Dollar Scheme, Bangalore - 560 068. INDIA Phone: +91 (80) 2668 3860 Fax: +91 (80) 2668 3935

CIN: 124200MH1988PTC0480





Date: 30th March 2015 Ref: HL/HR/JIG/PW/2014-15

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Puneeth J C (USN No- 1KG13MBA19) M.B.A student of K.S. School of Engineering and Management., No.15, Mallasandra, off Kanakapura Road, Bangalore - 560 062, has successfully completed his Project training with us from 8th December 2014 to 14th February 2015 as a part of Curriculum activities.

During his Project training, he was very punctual and obedient in his Project training also highly enthusiastic and committed to carry out his Project training as per the needs of the curriculum activities.

His character and conduct was good during his stay with us.

We wish all the best for his future endeavor.



Head - HR & Admin.

HIKAL LTD.

Factory ; 82/A, KIADB Ind. Area, Jigani, Anekal Taluk, Bangalore - 560 105. (India) Tel.: (080) 3986 1100, 08110 - 421 100 Fax : (080) 2782 5378 Admn. Office : Great Eastern Chambers, Sector - 11, CBD Belapur, Navi Mumbai - 400 614. Tel.: (91-22) 3097 3100 Fax : (91-22) 2757 4277 Regd. Office : 717/718, Maker Chamber - V, Nariman Point, Mumbai - 400 021 Tel : (91-22) 6630 1801 / 2283 4587 Fax : (91-22) 2283 3913



BMA Wealth Creators Ltd.

16/02/2015

CERTIFICATE

This is to certify that Mr. SALEEM AHMED KHAN (1KG13MBA21), MBA student of "Kammavari Sangam School of Engineering & Management" has successfully completed the project Title "A Study On Investment Analysis & Portfolio Management", from 8th Dec 2014 to 14th Feb 2015.

His code of conduct was good during the tenure with us and we wish him all the very best in his future Endeavour.

For BMA WEALTH CREATORS LTD.

nerd

AMIT PANKAJ (Centre Manager)

> 48. Ist Hoor, 9th, "A" Main Indira Nagar. First Stage, Bangalore - 560 038 www.wealth-creators.in



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