Bommanahalli, Hosur Road, Bengaluru-560068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the Project work entitled "Nutrition Assessment By Sweat Analysis "carried out by SANDEEP K R (IOX16EC061), SANJAY S (IOX16EC062), VASUDEVA SHARMA M (IOX16EC079), VIGNESH S (IOX16EC081), bonafide students of THE OXFORD COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of the Degree of BACHELOR OF ENGINEERING in ELECRONICS AND COMMUNICATION ENGINEERING of THE VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2019-2020. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the degree.

HOD

LAYA TOJO Professor & HOcpf 56EEEngineering Assistant Professor, Dept. of ECE, TOCE '''e Oxford CollEgC& Engineering Bommananalli, Bangalore - 560 068.

Name of the Examiner

- 1)
- 2)

Dr. A S ARAVIND Head of the Institution The Oxford EOCE of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

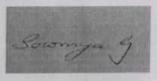
Bommanahalli, Hosur Road, Bangalore – 560068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

Certified that the Project work entitled "SMART GLOVE FOR COMMUNICATION AND HOME AUTOMATION" is carried out by Namratha R (10X16EC044), Priya Darshini B (10X16EC050), Sagarika P (10X16EC059), Tarunika P (10X16EC075) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication from VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2019-2020. It is certified that all corrections/suggestions indicated for Internal Assessments have been incorporated in the report deposited in the Department library. The project report has been approved as it satisfies the academic and other requirements in respect of project work prescribed for the said Degree.



Guide Mrs.Sowmya Padukone.G Asst, Professor Dept. of ECE

HOD

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Dr. Manju Devi Professor & Horofessor Frofessor & Horofessor Frofessor & Horofessor Frofessor Frofessor Bert of Ecc Engineering BommananeviceParty of 2500 068.

Dr. A S Aravind The Oxford College of Engineering Bangalore-560068C1PAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Signature with Date

Name of Examiners

Bommanahalli, Hosur Road, Bengaluru-560068

Department of Electronics and Communication Engineering



CERTIFICATE

Certified that the project work (15ECP85) entitled **"INTERACTIVE HEALTH BOT"** carried out by **SIDDARAMESHA K S (1OX15EC090), RAKSHITH (1OX16EC054), SOUNDARYA (1OX16EC069), and Yogesh P (1OX16EC085)** bona fide students of **VII semester** in partial fulfillment for the award of **Bachelor of Engineering** degree in **Electronics and Communication Engineering** of the Visvesvaraya Technological University, Belagavi during the year **2019-2020**. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project phase I report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.



Laya Tojo Assistant Professor Dept. of ECE TOCE

Dr. Manju Devi Head of the Department Professor DepOBre EBC Engineering The Oxford Dolege of Engineering Bommananalli, Bangalore - 560 068.

Principal TOCE of Engineeri The Oxford College of Engineeri Bommanahalli, Hosur Road Bengaluru-560 068

THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road, Bengaluru-560068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the Project work entitled "Simulation of underground cable fault detection system"carried out by Shabarish V(1OX16EC064),Srinidhi TR(1OX16EC070),Swapna R(1OX16EC073), Vijayalakshmi A(10X16EC082), bonafide students of THE OXFORD COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of the Degree of BACHELOR OF ENGINEERING in ELECRONICS AND COMMUNICATION ENGINEERING of THE VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2019-2020. The Project report phase 1 has been approved as it satisfies the academic requirements in respect of project work prescribed for the degree.

GUIDE

Prof. CHRISPIN JIJI A Assistant Professor, Dept. of ECE, TOCE

HOD

Dr. MANJU DEVI Dept. of ECE Professor & HQDof E&C Engineering The Oxford College of Engineering Bommananalli, Bangalore - 560 068.

PRINCIPA

Dr. A S ARAVIND Head of the Institution TOCE PRINCIPAL The Oxford College of Engineerin

8. Bommanahalli, Hosur Road Bengaluru-560 068 Signature with date

Name of the Examiner

1)

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Bommanahalli, Hosur Road, Bangalore - 560068 (Affiliated to VTU and approved by AJCTE)

Department of Electronics and Communication Engineering



CERTIFICATE

Certified that the Project work entitled "A NOVEL APPROACH TO PROVIDE PROTECTION FOR WOMEN BY USING SMART SECURITY DEVICE" is carried out by Aishwarya V (10X16EC004), Ajith M (10X16EC006), Bhavana BR (10X16EC011), Neha G R (10X15EC059) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication from VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2019-2020. It is certified that all corrections/suggestions indicated for Internal Assessments have been incorporated in the report deposited in the Department library. The project report has been approved as it satisfies the academic and other requirements in respect of project work prescribed for the said Degree.

Guide

Mr. Jayaraj N Asst. Professor Dept. of ECE

HOD

Dr. Manin Devi Protessor & Professor & C Engineerine ine Oxford College of Engineering Bommananalli, Bangalore-560 068 External Viva Dr. A S Aravind Oxford College of Engineering Bangalore-560068 PRINCIPAL The Oxford College of Engineering

The Oxford College of Enginee Bommanahalli, Hosur Road Bengaluru-560 068

Name of Examiners Signature with Date

Bommanahalli, Hosur Road, Bangalore –560068 (Affiliated To Visvesvaraya Technological University, Belgaum)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certified that the Project work entitled "MATLAB BASED HUMAN COMPUTER INTERFACE – AN ASSISTIVE DEVICE FOR SPEECH IMPAIRED AND AMPUTEES" carried out by NOOR FATHIMA (IOX16EC046), RADHA M (10X16EC053), RAKSHITHA D (IOX16EC055), bonafide students of THE OXFORD COLLEGE OF ENGINEERING, Bangalore in partial fulfillment for the award of the Degree of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the year 2019 - 2020. It is certifies that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

GUIDE

Mrs. Aruna J Asst.Prof, Dept. of ECE

1) _____

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Or HOD

Dr. MANJU DEVI Dr. A S ARAVIND Professor PHONECE&C Engineering TOCE INCIPAL TOCE Bangalore of Engineering Oxford College of Engineering Bommananalli, Bangalore - 560 CSB. Bommanahalli, Hosur Road Bengaluru - 560 068

External Viva

Name of the Examiners

Signature with Date

Bommanahalli, Hosur Road, Bangalore – 560068 (Affiliated To VTU and approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

Certified that the Project Report work entitled "NOVEL METHOD TO RECONSTRUCT AN IMAGE USING HYBRID DECOMPOSITION" is carried out by Abhijna Nayak (IOX16EC001), Vijaylaxmi M Halkarni (IOX16EC083), Roopa K S (IOX17EC404), Sneha Goudar (IOX17EC407) bonafide students of THE OXFORD COLLEGE OF ENGINEERING, BANGALORE in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electronics and Communication of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2019-2020. It is certified that all corrections/suggestions indicated for Internal Assessments have been incorporated in the report deposited in the Department library. The Project Report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Guide Mrs. A Chrispin Jiji Asst, Professor Dept. of ECE

HOD

Principal

Dr. Manju Devi Dr. A S Aravind Professor & Holdoff Exic Engineering The Oxford College 195 L The Oxford College of Engineering The Oxford College of Engineering Bommananali, Hosur Road Bommananali, Hosur Road Bengaluru-560 068

Name of the Examiners

2._

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068 (Affiliated to VTU and approved by AICTE)

Department of Electronics & Communication Engineering



CERTIFICATE

Certified that the project work entitled "Multipurpose Robotic Hand" carried out by Meghana K S (10X15EC053), Praphul Chandra S V (10X15EC066), Rakesh R (10X15EC071) and Malathi N (10X15EC049) bonafide students of The Oxford College Of Engineering in partial fulfilment for the award of Bachelor of Engineering degree in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all corrections/suggestions indicated for Internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

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Guide Dr. PREETA SHARAN Dept. of ECE TOCE

Dr. MANJU DEVI Dept. of ECE Professor TROD of E&C Engine The Oxford College of Engineering Bommananalli, Bangalore-560 000.

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Dr. A S ARAVIND

The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068 (Affiliated to VTU and approved by AICTE)

Department of Electronics & Communication Engineering



CERTIFICATE

Certified that the project work entitled "FACE RECOGNITION BASED ATTENDANCE SYSTEM" carried out by Sagar H Savadatti (1OX16EC058), Manjunatha Parasappa Choudikera (1OX16EC038), Chethan R N(1OX16EC086), Sandeep B Shiramagond (1OX16EC060) bonafide students of VII semester in partial fulfilment for the award of Bachelor of Engineering degree in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all corrections/suggestions indicated for Internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

PROJECT GUIDE Ms.LAKSHMI Assistant Professor TOCE

HOD Dr.MANJU DEVI Protessor GoogD of E&C Engineering Bommananalli, Bangalore-560 068.

RINCIPAL

Dr. A S ARAVIND Head of The Institution ine Oxford College of Engineering The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Signature with Date

Name of the Examiner

1)..... 2).....

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the Project Work entitled "Speech Controlled Hospital Room Automation for Disabled patients" carried out by, NANDITHA T N (10X14EC408), VINODH KUMAR JANGID (1OX16EC084), SHUBHAM KUMAR (1OX16EC066), LASYA PRIYA A (1OX14EC039), students of THE OXFORD COLLEGE OF ENGINEERING, Bangalore inpartial fulfillment for the award of Bachelor of Engineering degree in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

GUDIE

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2.

Mr. R Bhargava Rama G

Dr.ManjuDevi Asst. Professor, Dept. of ECE Professor & HOD of E&C Engineering The Oxford College of Engineering Bommananatli, Bangalore-560 068.

Name of the Examiner's

Dr. A.S. Aravind PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Signature withdate

Bommanahalli, Hosur Road, Bangalore - 560068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and CommunicationEngineering



CERTIFICATE

CertifiedthattheProject workentitled "FABRICATION OF VOICE OPERATED EXO-SKELETON ARM"iscarriedout by Hari Kiran M (10X16EC018), Harsha S Tavane(1OX16EC019), Keerthana K (1OX16EC028)bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication from VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2019- 2020. It is certified that all corrections/suggestions indicated for InternalAssessments have been incorporated in the report deposited in the Department library. The project report has been approved as it satisfies the academic and other requirements in respect of project work prescribed for the said Degree.

Guide

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2.

Mrs. R.Bhargava Rama Gowd Asst, Professor Dept. of ECE

HOD

Dr. Manju Devi Professor The Oxford College of Engineering Bangalore 560068 The Oxford College of Engineering Bommapanallia Bengalore - 560 Cuu.

Dr. A S Aravind PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Name of Examiners Signature with Date

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068 (Affiliated to VTU and approved by AICTE)

Department of Electronics & Communication Engineering



CERTIFICATE

This is to certify that the project work entitled "HEAD - EYES SYSTEM OF HUMANOID SKULL" is a bonafide work carried out by KANHAIYA KUMAR MAKHARIA (IOX16EC027), KIRAN KUMAR S (IOX16EC032), KIRAN KUMAR B C (IOX16EC031), JEETENDRA KUMAR (IOX16EC22) in fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAVI during the academic year 2019-2020. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department library. The project report has been approved as it satisfies the academic requirements for the above said degree.

Guide & HOD

Dr. MANJU DEVI

Dept. of ECE Professor & HOD of E&C Engineering TOCE of Engineering Tax Oxford Confege of Engineering Name of the Examiner

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Principal

Dr. A S ARAVIND

The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068 Signature with date

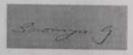
Bommanahalli, Hosur Road, Bangalore - 560068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and CommunicationEngineering



CERTIFICATE

CertifiedthattheProject workentitled "CONTRAST ADAPTIVE TONE MAPPING USING CLUSTERING METHOD" is carried out by Kalyani P(10X16EC026), Lavanya G(1OX16EC034), Ashwini R(1OX16EC010), Deepa R(1OX17EC400), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Electronics and CommunicationfromVISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2019- 2020. It is certified that all corrections/suggestions indicated for InternalAssessments have been incorporated in the report deposited in the Department library. The project report has been approved as it satisfies the academic and other requirements in respect of project work prescribed for the said Degree.



Guide Mrs. Sowmya Padukone.G Asst, Professor

Dept. of ECE

0 HOL

Dr. Manju Devi Professor & Ripfesser Engineer The Oxford College of Engineering The Oxford College of Engineering Bermana ore-560 068

Principa

Dr. A S Aravind Bangalors-560068 The Oxford College of Engineering Bommanahalll, Hosur Road

Bengaluru-560 068

Name of ExaminersSignature with Date

1.

Bommanahalli, Hosur Road, Bangalore – 560068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

Certified that the Project work entitled "VEHICLE IDENTIFICATION SYSTEM-AUTOMATIC NUMBER PLATE RECOGNITION" is carried out by Deeshanu Debashish Mandal (10X16EC013), Divya M D (10X16EC015), M S Rashmi (10X16EC035), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication from VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2019- 2020. It is certified that all corrections/suggestions indicated for Internal Assessments have been incorporated in the report deposited in the Department library. The project report has been approved as it satisfies the academic and other requirements in respect of project work prescribed for the said Degree.



Ms. Vidya S A Asst, Professor Dept. of ECE

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HOD

Dr. Manju Davi Dr. A S Araving L Professor & Professor & C Engineering Oxford College of Engineering The Oxford College of Engineering the Oxford College of Engineering Bommananalli, Bangalore - 560 068. External Viva

Name of Examiners Signature with Date

Bommanahalli, Hosur Road, Bangalore - 560068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

Certified that the Project work entitled "Object Tracking Using RFID In THREE dimensional Space" is carried out by Aishwarya Raj (1OX16EC003), Ajay S (1OX16EC005), Jayanth R Kashyap (1OX16EC021), Mahatesh M Baridabad (10X16EC036), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication from VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2019- 2020. It is certified that all corrections/suggestions indicated for Internal Assessments have been incorporated in the report deposited in the Department library. The project report has been approved as it satisfies the academic and other requirements in respect of project work prescribed for the said Degree.



Guide

Mr .N Jayraj, Asst, Professor Dept. of ECE

HO

Professor & Dop of ECE Engineering The Oxford College of Engineering Bangalon 2600420 At Dr. Manju Devi The Oxford College of Engineering Bommananalli, Bangalore-560 068. External Viva

Principal

Dr. A S Aravind The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Signature with Date

Name of Examiners

BOMMANAHALLI, HOSUR ROAD, BENGALURU – 560 068 (Affiliated to VTU and Approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the Project work entitled "VIRTUAL PIANO USING RASPBERRY PI" is a bonafide work carried out by CHANDANA S (10X16EC012), KEERTHANA S (10X16EC029), SNEHA (10X16EC068), SUSHMA R (10X16EC072) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2019-2020. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.



Mrs. ARUNA J Asst. Professor, Dept. of ECE

HOD

Dr. MANJU DEVI

Professor & H The OREPT College of Engine Bommananalli, Extendet Viva

Name of the Examiner

1. 2.

PRINCIPAL

Dr. A.S.ARAVIND

Professor and HOD assor & HOD of Eac Engineering The Oxford College of Engineering PRINCIPAL The Oxford Uthege of Engineering Bommanahalli, Hosur Roal Bengaluru-560 068 Signature with Date

Bommanahalli, Hosur Road, Bangalore - 560068

(Affiliated to VTU and approved by AICTE) Department of Electronics and Communication Engineering



CERTIFICATE

Certified that the project work entitled "CAMOUFLAGE BASED ARMY ROBOT" is carried out by Divya B (IOX16EC014), Gopinath R (IOX16EC016), Greeshma KM (IOX16EC017) and Harshavardhan K (IOX16EC024) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering from VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

BELGAUM during the year **2019-2020**. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic and other requirements in respect of project work prescribed for the said degree.

Guide

Dr. Manju Devi Professor

Dept. of ECE

HOD

Dr. Manju Devi Professor & HOD of E&C Engineering The Oxford College of Engineering Bommananalli, Bangalore - 560 068.

External Viva

Dr. A S Aravind The Oxford College of

EngineErRINCIPAL Thepargatole Selfecte of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners

1).....

Bommanahalli, Hosur Road, Bengaluru-560068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the Project work entitled "Extensive Communication System for Deaf and Mute People "carried out by RACHANA. R (10X16EC052), UMME HAANI (10X16EC077), VEEKSHA V SHETTY (10X16EC080), bonafide students of THE OXFORD COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of the Degree of BACHELOR OF ENGINEERING in THE ENGINEERING of COMMUNICATION ELECRONICS AND VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2019-2020. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the degree.

GUID

LAKSHMI R Assistant Professor, Dept. of ECE, TOCE

HOD

Dr. MANJU DEVI Dept. of ECE Professor & HDD@EE&C Engineering The Oxford POCE The Oxford College of Engineering Bommananalli, Bangalore - 560 068.

Dr. A S ARAVIND Head of the Institution gineering Bommanahalii, Hosur Road Bengaluru-560 068

Name of the Examiner

1)

2)

Signature with date

......

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068 (Affiliated to VTU and approved by AICTE)

Department of Electronics & Communication Engineering



CERTIFICATE

Certified that the project work entitled "PROTECTION AND MONITOR OF LAKE USING SMART DEVICE" carried out by Akhilesh Patil (IOX16EC007), Ashwin Kumar G M (1OX16EC009), K M Chandrashekar Reddy (1OX16EC025) and Kuppam Venkata Sai Dinesh (10X16EC033) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering degree in VISVESVARAYA the Electronics Communication Engineering of and TECHNOLOGICAL UNIVERSITY, BELGAUM during the year 2019-2020. It is certified that all corrections/suggestions indicated for Internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

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Guide Dr. PREETA SHARAN Dept. of ECE TOCE

Name of Examiners

HOD Dr. MANJU DEVI

Dept. of ECE Professor & HOLCH E&C Engineering The Oxford College of Engineering Bommanenalli, Bangalore - 560 068.

П

Principal

Dr. A S ARAVIND TOCE PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Signature with Date

1.

2.

Bommanahalli, Bangalore - 560 068 (Affiliated to VTU and Approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

Certificate that the project work entitled "Voice Assisted Smart E - Cane for the Visually Challenged using Machine Learning", carried out by Adam Filbert Ashwal (1OX16EC002), Kimberly Claudia Dsouza (1OX16EC030), Meghana S (1OX16EC039) and Muhammad Hashim Iqbal Husain (1OX16EC041), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2019 - 2020. 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.

Guide

Dr. Manju Devi Professor & HOD, Dept. of ECE

Dr. Manju Devi Professor & HOD, The Oxford College of Engineer Professor percent Engineering BinsipaharOCEHosur Road The Oxford College of Engineering Bommananalli, Bangalore - 560 068.

Principa

Dr. A. SPANNingL The Oxford College of Engineer Bengaluru-560 068

Name of Examiners

Signatures with Date

THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road, Bengaluru-560068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled "ENHANCEMENT TECHNIQUE FOR IMPROVING NIGHT-TIME IMAGES USING MULTI-SCALE RETINEX" carried out by AKILESH BEERU GAVADE (10X16EC008), HEMANTH BJ (10X16EC020), MAHEK BAGGA (10X16EC037) and MOHIT KUMAR S (10X16EC040) bonafide students of THE OXFORD COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Degree of BACHELOR OF ENGINEERING in ELECRONICS AND COMMUNICATION ENGINEERING of THE VISVESVARYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2019-2020. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the degree.

GUIDE

Prof. Veeresh Hosagoudar Assistant Professor, Dept. of ECE, TOCE HOD Dr. Manju Devi Dept. of ECE The rolessor & HOGOEE&C Engineering The Oxford College of Engineering Bommananalli, Bangalore-560 068. External viva

Dr. **RSINCIPAL** The College of Engineering ing Bommanapalit, Hosti Road Benddiuru-560 068

Name of the Examiner

1)

2)

Signature with date

I.

Rommanshall, Hour Road, Bengaluru, Sectors (Affiliated to VIU and approved by AICTE)

Department of Electrical and Electronics Engineering



CERTIFICATE

This is to certify that the project work entitled "TEMPERATURE BASED AUTOMATIC SPEED CONTROL OF FAN USING ARDUINO MICROCONTROLLER" has been carried out by Anusha R, Kusuma S C, Shilpa N, bearing usn 10X16EE005, 10X16EE023, 10X16EE065, bonafide students of The Oxford College Of Engineering. Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University. Belgaum during the year 2019-2020. It is certified that all suggestions indicated for internal assessment have been incorporated in the Report deposited in the departmental library. The project work has hern approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

Dr. V S BHARATH Professor, HOD Dept. Of EEE, TOCE

<u>Name of the Examiners</u> Examiner 1 Examiner 2

Dr. V S BHARATH Dr. A S ARAVIND Dept. Of EEE, TOCE Principal, TOCE Professor & Head EEE PRINCIPAL The Oxford College of Engrither Diford Callege of Engineering Bommannanali, Hoser Poad Earlystore 555 063 Bengalary 100 Mpt

Boromanidualii, Hossir Road, Bengaluru. Second (AMilated to VIU and approved by AJCTE)

Department of Electrical and Electronics Engineering



CERTIFICATE

This is to certify that the project work entitled "TEMPERATURE BASED AUTOMATIC SPEED CONTROL OF FAN USING ARDUINO MICROCONTROLLER" has been carried out by Anusha R, Kusuma S C, Shilpa N, bearing usu IOX16EE005, IOX16EE023, IOX16EE065, bonafide students of The Oxford College Of Engineering. Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all suggestions indicated for internal assessment have been incorporated in the Report deposited in the departmental library. The project work has heen approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

Dr. V S BHARATH Professor, HOD Dept. Of EEE, TOCE

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Dr. V S BHARATH Dr. A S ARAVIND Dept. Of EEE, TOCE Principal, TOCE Protossor & Head EEE PRINCIPAL The Oxford College of Engrither Oxford College of Engineering Bommannhalli, Hosur Poad Engrition 550 068 Bengstern States

Signature with date

Name of the Examiners

Examiner 1

Examiner 2

THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bangalore-560068 (Affiliated to VTU and approved by AICTE Accredited by NAAC and NBA)

Department Electrical & Electronics of Engineering



Certified that the Project work entitled "Energy audit on solar rooftop" carried out by Harsha Yallappa Byahatti (10X16EE017), Priyanka M (10X16EE048), Renuka S (10X16EE058), Sahana Suresh Kanthi(1OX16EE060), a bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of degree of Bachelor of Engineering in Electrical & Electronics Engineering of Visvesvaraya Technological University, Belgaum during the academic year 2019-2020. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Project work has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

LUPEE ! THOSE OF ENDING STREET HOLD GE OF ENDY Signature of the Principal THOSE ROAD PRIVE SHARATH JOSE ROAD Dr A S ARAVIND PRINCIPAL BOMMANANANING S60 068 PRINCIPAL Set He in MARTIAR Bangalore-560 068 Name of the Examiners:

The Oxford Collegina Gineering Bommanahalli, Hosur Road Bengaluru-560 068.

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BOMMANAHALLI, HOSUR ROAD, BENGALURU – 560068 (Affiliated to VTU and approved by AICTE) DEPARTMENT OF ELECTRICAL AND ELECRTONICS ENGINEERING



2019-2020 CERTIFICATE

This is to certify that the project entitled "Auto Intensity Control of Streetlights Using IR Sensor by Detecting the Vehicle Movement " is a bonofied work carried out by AMIT KUMAR JAISWAL(10X16EE003), DILEEP(10X16EE012), MOHAN V (10X16EE031), MURALI(10X16EE033). In partial fulfillment of project in 8th semester, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year of 2019-2020.

It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Head of the department Dept. Of EEE.

Name of the Examiners

Dr.Bharath V S Head of the department Dept. Of EEE.

S Aravind

Dr. A S Aravind PRIPrincipal The Oxford CollegEOGE ngineer rg Bommanahalli, Hosur Road Signature with date

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068 (Affiliated to VTU and approved by AICTE)

Department of Electrical and Electronics Engineering



2019-2020

CERTIFICATE

This is to certify that the project work entitled "SOLAR COMPLIMENTARY POWER INVERTER BASED ON INTELLIGENT CONTROL" is a work carried out by BHOOMIKA N A (10X16EE008), HARISH BABU C S (10X16EE015), HARSHA NAIK K J (10X16EE016), POOJA K (10X16EE045) in partial fulfillment of project in, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavifor the year 2019-2020. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

08/2020

Mr. N. JAYAKUMAR

Associate Professor Dept. of EEE, TOCE

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HTPO of Engli: DR RISIOARAVIND lege of Engli: DR RISIOARAVIND DCE::::: Rop The Oxford College of Enginee: DCE:::: Rop The Oxford College of Enginee: Bomnarafafaill, Hosur Road Bongaluru-550 068.

EXTERNAL VIVA

Name of the Examiners

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068 (Affiliated to VTU and approved by AICTE)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2019-2020

CERTIFICATE

This is to certify that the project work entitled "SMART SECURITY SOLUTION FOR WOMEN BASED ON INTERNET OF THINGS(IOT)" is a bonafide work carried out by DHEERAJ R (10X16EE011), RAHUL DESHPANDE (10X16EE050), RAKESH V(10X16EE052),

SWAROOP N B (10X16EE069) in partial fulfillment of project in, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year 2019-2020. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Internal Gui

Mr. N. JAYAKUMAR Associate Professor Dept. of EEE,TOCE

Name of the Examiners

rincip ARAPHA EEE manahalli, Hosur 378 The Oxfor Bringipal TOCE gineering Bangalore-560 008 Bornmanahalli, Hosur President Bommanahalli, F THE O

Bommanahalli, Hosur Road, Bengaluru-560068

(Affiliated to VTU and approved by AICTE)

Department of Electrical and Electronics Engineering



CERTIFICATE

This is to certify that the project work entitled "MODELLING OF POWER CONVERTERS DESIGN FOR SOLAR ENERGY SYSTEM APPLICATIONS" has been carried out by Dhanush H S, Nagendra reddy H, Sumithra B, Srikanth N, bearing USN 10X16EE010, 10X16EE036, 10X16EE067, 10X17EE407, bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

Internal Guide Mrs SANDHYA RAI Associate professor Dept of EEE, TOCE

<u>Name of the Examiners</u> Examiner 1 Examiner 2 Processor & Head EEE The Oxford College of E Bornington Hanall, Hosur Rum Bangalore-560 068

Dr A S ARAVIND

Principal, TOCENCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068.

THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bangalore-560068 (Affiliated to VTU and approved by AICTE Accredited by NAAC and NBA)

Department Electrical & Electronics of Engineering



Certified that the Project work entitled "HAND GESTURE VOCALIZER" carried out by Nihala Sadeen (10X16EE040), Owaiz Khan (10X16EE042), Ramya Krishna KH (10X16EE054), Sandhya S (10X15EE063), a bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of degree of Bachelor of Engineering in Electrical & Electronics Engineering of Visvesvaraya Technological University, Belgaum during the academic year 2019-20. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Project work has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signature of the Guide Mrs. B Devi Vigneshwari

	Name	e of the	Examiners:		
1.	· · · · · · · ·				
2.	******				

Signature of the HOD Dr.V.S. BHARATH Professor & Head EEE The Oxford College of F Bommanahalli, Hosur F Bangalore-560 (Pa)

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Signature of the Principal Dr. A.S. ARAVIND

Signature with dates PRINC

The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068. THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, HOSUR ROAD, BENGALURU – 560 068 (Affiliated to VTU and all approved by AICTE, accredited by NAAC and NBA) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Project work entitled "SMART HELMET – INTELLIGENT SAFETY FOR MOTORCYCLISTS" is a work carried out by M NIKITA (USN: 10X16EE029), SRILEKHA N (USN: 10X16EE066), SWATHI H (USN: 10X16EE070), SWATI SUNIL KUMAR (USN: 10X16EE071), bonafide students of Electrical and Electronics Engineering, The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering under Visvesvaraya Technological University, Belagavi during the year 2019-2020. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the Report. The project report has been approved as it satisfies the academic requirements required for the B.E. degree.

Guide Mrs. Raichel Ruby Associate Professor Dept. of EEE, TOCE

<u>Name of the examiners</u> Examiner 1 Examiner 2

DT. VS Bharatheau The Oxford College of Engl. TOORINCIPAL Head of the Department Head of the Department Barroce e-560 068 EXTERNAL VIVA Bengaluru-560 068. Dr. A S Aravindh TOORINCIPAL Bommanahalli, Hosur Road Bengaluru-560 068.

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, HOSUR ROAD, BENGALURU – 560 068 (Affiliated to VTU and all approved by AICTE, accredited by NAAC and NBA) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Project work entitled "SMART ARMY TACTICAL ARMOUR" is a work carried out by SENDHIL KUMAR B S (USN: 10X16EE064), VISHAL MURALIDHARAN (USN: 10X16EE074), AMRUT S B (USN: 10X17EE400), bonafide students of Electrical and Electronics Engineering, The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering under Visvesvaraya Technological University, Belagavi during the year 2019-2020. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the Report. The project report has been approved as it satisfies the academic requirements required for the B.E. degree.

Guide

Mrs. Nalina Kumari Asst. Professor Dept. of EEE, TOCE

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Dr. VS Bhagath of Englishing Principal Head of the Department 68 PAL

Bommanah DOP. O. The Oxford College of Engineering Bommanahalli, Hosur Road ERNAL VIVA Bengaluru-560 068. Signature with Date

Name of the examiners Examiner 1 Examiner 2

BOMMANAHALLI, HOSUR ROAD, BANGALORE-560 068 (Affiliated to VTU and approved by AICTE, Accredited by NAAC and NBA)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that Project entitled –"FACE RECOGNITION BASED CAR IGNITION AND SECURITY SYSTEM" is a bonafide work carried out by Vishal, Sandeep, Ravi Yallappa Bajantri, Raghu Rayaraddi bearing USN: 10X16EE073, 10X16EE062, 10X16EE057, 10X15EE065 in partial fulfillment of Project in 8th semester, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological university, Belagavi for the year 2019-2020. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The Project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Mr. N MUNIYAPPA Associate professor Dept of EEE, TOCE

BHARATHUE OF BEE TOCBOSUF Road Bangalore-560 068

Principal, TOCE

PRINCIPAL The Oxford College of Engineerin Bommanahalli, Hosur Roed BDate

Name of the examiners:

Signature:

1 2.

THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bangalore-560068 (Affiliated to VTU and approved by AICTE Accredited by NAAC and NBA)

Department Electrical & Electronics of Engineering



Certified that the Project work entitled "Transmission line fault detection using IoT" carried out by Hema (10X16EE018), Kavita Patil (10X16EE020), Liya Elizabeth Baby (10X16EE028), Rashmi K S (10X16EE056), the bona fide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of degree of Bachelor of Engineering in Electrical & Electronics Engineering of Visvesvaraya Technological University, Belgaum during the academic year 2019-20. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Project work has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

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Signature of the Guide Mrs. NISHA C RANI

Name of the Examiners:

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Bomnianahalil, Hosur Road

Bangalore-560,00R

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Signature of the Principal Dr. ARIARAYAND The Oxford College of Engineering Bommanahalli, Hosur Road BSigniture560106stes:

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Rommanahalli, Hosur Road, Bengaluru-560068

(Amiliated to VTU and approved by AICTE)

Department of Electrical and Electronics Engineering



CERTIFICATE

This is to certify that the project work entitled "SMART BLIND STICK" has been carried out by Carol Alyanna K , Sushma N K, Bhargavi T, Neelavathi, bearing usn ION16EE009, ION16EE068, ION15EE017, ION16EE413, bonafide students of The Oxford College Of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

T.Somesuni Internal Guide Mrs SOMESWARI.T Assistant professor Dept of EEE, TOCE Thomas 2

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Fr**DitVSBHARATILEEE** The **Deptrof EEE TOCE** Engl Bommanahalli, Hosur Road Bangalore-560 068 Th

Principal, TOCE PRINCIPAL The Oxford College of Engineerir Bommanahalli, Hosur Road Bongolucu-560 068.

Signature with date

Name of the Examiners Examiner 1

Examiner 2

REAL STREET

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068 (Affiliated to VTU and approved by AICTE)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2019-2020

CERTIFICATE

This is to certify that the project work entitled "MINIMIZING PENALTY IN INDUSTRIAL POWER CONSUMPTION BY ENGAGING APFC UNIT" is a bonafide work carried out by "AMRIN(10X16EE004), KUBRA SULTANA (10X16EE022), PREETHAM PM (10X16EE047), TANZEERA BANU A (10X16EE072)"Bonafide student of The oxford College of Engineering. Bangalore in partial fulfillment for the award in Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belagavi for the year 2019-2020.

It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. The project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of a Engineering.

Mr Jayakumar N Associate Professor Dept of EEE,TOCE

Name of Examiners: 1. 2.

ЮН Bommanananalli, Hosur Road Bangalore-560 058 The

Principa

The Oxford College of Engineerin Bommanahalli, Hosur Road Bengaluru-560 068.

Signature and date

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, HOSUR ROAD, BENGALURU – 560 068

(Affiliated to VTU and all approved by AICTE, accredited by NAAC and NBA) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2019 - 2020

CERTIFICATE

This is to certify that the project "GAS LEAKAGE DETECTION IN UNDERGROUND PIPELINE USING ARDUINO, GSM & GPS MODULE" is a bonafide work carried out by AMIT KUMAR (10X16EE002), ARJUN KM (10X16EE006), RAKESH R PANICKER (10X15EE066), MOHAMMED SAAD PASHA (10X15EE045) in partial fulfillment of project in 8th semester, Bachelor Of Engineering in the course of Electrical And Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year 2019 – 2020. It is certified that all the corrections and suggestions indicated for Internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Internal Guide Mrs. RESNA S R Assistant Professor Dept. of.EEE, TOCE

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Bommanahall, Hosur Road Bangulore-560 068

he Oxiolicipal englisher Road Bommanahalli, Hosur Road Bengaluru-560 068.

Name of the Examiners

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, HOSUR ROAD, BENGALURU – 560 068 (Affiliated to VTU and all approved by AICTE, accredited by NAAC and NBA) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



<u>CERTIFICATE</u>

This is to certify that the Project work entitled "DESIGN OF A SYSTEM TO DETECT HAZARDOUS GASES IN VEHICLES AND ALERTING THE USERS BY ARDUINO SYSTEM" is a work carried out by ARUN KUMAR S (USN: 10X16EE059), AVINASH J (USN: 10X16EE078), NANDAN SHETTY (USN: 10X17EE401), bonafide students of Electrical and Electronics Engineering, The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering under Visvesvaraya Technological University, Belagavi during the year 2019-2020. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the Report. The project report has been approved as it satisfies the academic requirements required for the B.E. degree

Guide

Mrs. Nalina Kumari Asst. Professor Dept. of EEE, TOCE

Hea ERNAL VIVA

Arayingh Hosur Road Bommanalian, Hosur Road Bommanalian, Hosur Road

Name of the examiners

Signature with Date

Examiner 1

Examiner 2

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, HOSUR ROAD, BENGALURU – 560 068 (Affiliated to VTU and all approved by AICTE, accredited by NAAC and NBA) DEPARTMENT OF ELECTRICAL AND ELECTRONICS



CERTIFICATE

Certified that the Project work entitled "REGENERATIVE BRAKING CIRCUIT FOR ELECTRIC VEHICLES" is a work carried out by VISHAL NADIG (USN: 10X16EE075), SYED YOUNUS JALAL (USN: 10X15EE095), PRAJWAL K.J (USN: 10X15EE058), ROHIT KUMAR MAGOTRA (USN: 10X17EE409), bonafide students of Electrical and Electronics Engineering, The Oxford College of Engineering, Bengaluru in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering under Visvesvaraya Technological University, Belagavi during the year 2019-2020. 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 required for the B.E. degree.

Ausop. H. K 17/8/2020 Guide

Mr. Anoop H.K

Dr. V S Bharath

Asst. Professor Dept. of EEE, TOCE Bommanahalli, Hosur Ron Bangalore, 560-050 EXTERNAL VIVA

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The OxfDOIOBDIIBge ---------Bommanahalli, Hosur Road Bengaluru-560 068.

Name of the examiners

Signature with Date

Examiner 1

Examiner 2

THE OXFORD COLLEGE OF ENGINEERING HOSUR ROAD, BOMMANAHALLI, BENGALURU-560068 (Affiliated to VTU and approved by AICTE, Accredited by NAAC and NBA)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Project work entitled "SMART ULTRA FAST ACTING ELECTRONIC CIRCUIT BREAKER" is a bona-fide work carried out by MOUNISH A (10X15EE048), SANJAY KUMAR S (10X16EE418), SUNEEL KUMAR H N (10X16EE421), YUVARAJ R (10X15EE105) in partial fulfillment of internship in 8th semester, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological university, Belagavi for the year 2019-2020. It is certified that all corrections and suggestions indicated for internal assessment has been incorporated in the report. The Project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

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INTERNAL GUIDE: Smt. PRAKRUTHI P Assistant Professor Dept. of EEE, TOCE

Dr. V S BHARATH EEE Head Of Department (EEE) ngg. The Dept of EEE, TOCEr Road Bommananall, HOSEr Road Bangalore-560 068 Th

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PRINCIPAL:

Dr. A S ARAVIND g. Principal FRAFE IPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068,

SIGNATURE OF THE EXAMINERS:

1. <u>Sandhya Koi - hu</u> 2. <u>B. Devivighnethuasi</u> Rhun

HOSUR ROAD, BOMMANAHALLI, BENGALURU-560068 (Affiliated to VTU and approved by AICTE, Accredited by NAAC and NBA)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Project work entitled "BI-DIRECTIONAL ROTATION OF INDUCTION MOTOR USING TELEVISION REMOTE CONTROL" is a bona-fide work carried out by BHARATH KUMARA M B (10X16EE402), HUZAIFA ALI KHAN (10X15EE031), IYER VIJAY SURESH (10X12EE028), SAIF AHMED (10X17EE405) in partial fulfillment of internship in 8th semester, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological university, Belagavi for the year 2019-2020. It is certified that all corrections and suggestions indicated for internal assessment has been incorporated in the report. The Project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

INTERNAL GUIDE: Mr. JAYAKUMAR N Associate Professor Dept. of EEE, TOCE

Dr. A S ARAVIND

Dr. V S BHARATH

Head of Department (EEE)

Principal

 FPertessor
 TOCE Head EEE
 TOCE PRINCIPAL

 The Oxford College of Engthe Bommanahalli, Hosur Road Bangalore-560 068
 TOCE PRINCIPAL

SIGNATURE OF THE EXAMINERS:

1. <u>Sandhra Roi - Ino</u> 2. <u>B Devi vighnethuscui - Pein</u>

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by AICTE)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2019-2020

CERTIFICATE

Certified that the Project work entitled "POWER GENERATION FROM WASTE HEAT BY USING THERMOELECTRIC GENERATOR" carried out by SUKRUTH S(10X15EE089), NARAYANASWAMY G(10X16EE411), PRABHU H (10X16EE415), RAVI K M(10X17EE402), a bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of degree of Bachelor of Engineering in Electrical & Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2019-20. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Project work has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signature of the Guide Mrs. MANJUSHREE Assistant Professor Dept. of EEE, TOCE

Name of the Examiners:

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Signature of the HOD

Dr.V.S BHARATII

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Signature with dates:

Hosur Road, Bommanahalli, Bangalore-560068

(Affiliated to VTU and approved by AICTE)

Department of Mechanical Engineering



CERTIFICATE

This is to certify that the Project work entitled "**Design and fabrication of mobile robotic arm using mecanum wheels.**" Is an authentic record of the project work carried out by **Abdul Majeed Suhail (USN: 1OX16ME001), Gururaj G (USN: 1OX16ME027), Sahana (USN: 1OX17ME418), Sanjaya M (USN: 1OX17ME419)** in partial fulfillment for the award of Bachelor of engineering in **Mechanical Engineering** from Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide	Signature of HOD	Signature of Principal
Mr. Vinay V	Dr. Madhu Sudana Reddy G	Dr. Aravind S
Examiners:		Signature with date
1)		
2)		

Bommanahalli, Hosur Road, Bangalore - 560068

(Affiliated To Visvesvaraya Technological University, Belgaum)



Department of Mechanical Engineering

CERTIFICATE

Certified that the Project Work entitled "DESIGN AND DEVELOPMENT OF PLANT IRRIGATION WATER SPRINKLER ROBOT" is a bonafide work carried out by Mr. PRAJWAL S H (1OX16ME063), Mr. KIRAN S (1OX16ME073), Mr. VISHAL A BANAKAR (1OX16ME096), and Mr. VISHNU PRASAD R (1OX16ME098) in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the year 2016-2020. It is certified that all the 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.

Signature of Guide [Prof. RAHUL D]	Signature of HOD [Dr. MADHU SUDHAN REDDY]	Signature of Principal [Dr. A S ARAVIND]
SL.No	Name of The Examiners	Signature With Date
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2.		

THE OXFORD COLLEGE OF ENGINEERING MILESTONE, HOSUR MAIN ROAD, BOMMANAHALLI BENGALURU-560068

Department of Mechanical Engineering



CERTIFICATE

Certified that the Project Work entitled "DESIGN AND FABRICATION OF LIQUID BASED EXHAUST SYSTEM" work carried out by Mr.VISHNU VEERAN S (10X16ME099), Mr.KOWSHIK M N (10X16ME042), Mr.RAHUL S RAJ (10X16ME070), and Mr. TEJAS KUMAR T N (10X17ME428) a bonafied student of The Oxford College of Engineering in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the year 2016-2020. It is certified that all the 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.

Signature of Guide Principal		Signature of HOD	Signature	of
•	UHAS V]	[Dr.MADHU SUDHAN REDD	Y] [Dr.A S ARAVIND]	
		External Viva		
S.No	<u>Nam</u>	e of The Examiners	Signature With Date	
1.				
2.				

Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING

(Approved by AICTE, Accredited by NAAC, New Delhi & Affiliated to VTU, Belgaum)



CERTIFICATE

This is to certify that the project work entitled "Design and fabrication of human rescue system" is a bonifide work carried out by ARUN.H (1OX17ME403), CHETHANKUMAR.K.V (1OX17ME405), SOMASHEKAR.C.P (1OX17ME423) & SRINIVAS.V (1OX17ME424), a bonafide student of The oxford college of Engineering in partial fulfilment for the award of Bachelor of technology in Mechanical Engineering under Visvesvaraya Technological University, Belagavi during august 2020. The project report has been approved as it satisfies the academic requirements with respect to final project report prescribed for the Bachelor of Technology Degree.

<u>GUIDE</u> Mr. RAVI PRAKASH M

> Assistant Professor Dept. of ME, TOCE

HOD Dr. MADHU SUDHAN REDDY PRINCIPAL Dr. A S ARAVIND

Principal, TOCE

Professor & Head Dept. of ME, TOCE

Hosur Road, Bommanahalli, Bangalore-560068

(Affiliated to VTU and approved by AICTE)

Department of Mechanical Engineering



CERTIFICATE

This is to certify that the Project work entitled "DESIGN AND FABRICATION OF AUTOMATIC DRAINAGE CLEANING SYSTEM USING SOLAR PANEL". Is an authentic record of the project work carried out by Balakrishna H R (USN: 10X16ME0012), Charan S (USN: 10X16ME019), Chethan M (USN: 10X16ME021), Sujith V (USN: 10X16ME085) in partial fulfillment for the award of Bachelor of engineering in Mechanical Engineering from Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide	Signature of HOD	Signature of Principal
Mr. Shivasheshadri M	Dr. Madhusudana Reddy G	Dr. Aravind A S

Examiners:

Signature with date

1)

2)

Hosur Road, Bommanahalli, Bangalore-560068 (Approved by AICTE, New Delhi, accredited by NBA, NAAC, New Delhi & Affiliated to VTU, Belagavi)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to Certify that the project work entitled "Design and Fabrication of Drone Mounted Pesticide Spraying Mechanism for Agricultural **Purposes**" is a bona fide work carried out by **MR. KISHALAY PANDEY** SL (1016ME039), MR. KEERTIVARMA (1OX16ME037), MR. PRAMODH N (10X16ME066), MR. C ABHILASH (10X16ME016) students of The Oxford College of Engineering in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2019 – 2020. 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.

Signature of the guide

Signature of HOD Signature of the Principal

Dr. Madhu Sudana Reddy. G Dr. Madhu Sudana Reddy. G **Dr A S Aravind**

Name of Examiners: Date Signature with

1. 2.

THE OXFORD COLLEGE OF ENGINEERING Hosur road, Bommanahalli, Bangalore-560068

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "Design and fabrication of android operated wheelchair" is a bonafied work carried out by T Prasanna Amarnath (Usn: 10X15ME091), P Cavin Wesley (Usn: 10X16ME059), Chethan S (Usn: 10X17ME406), Mohith BM (Usn: 10X17ME413), on partial fulfilment of bachelor of engineering in mechanical engineering under Visvesvaraya Technological University, Belagavi during the year 2019-2020. it is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. the seminar report has been approved as it satisfies the academic requirements in respect of seminar work prescribed for the said degree.

Signature of guide Prof. Vidyadhar Pujar Signature of HOD Dr. Madhu sudhana reddy

Signature of Principal Dr. Aravind A S

External Viva

Name of the Examiners :

Date :

1)

2)

Signature with

DEPARTMENT OF MECHANICAL ENGINEERING THE OXFORD COLLEGE OF ENGINEERING 10th Milestone, Bommanahalli, Hosur Road, Bengaluru – 560068

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "DESIGN AND FABRICATION OF VERTICAL AXIS WIND TURBINE" carried out by Mr. GIRISH S (10X16ME025), JEEVAN H G (10X16ME030), KARTHIK K (10X16ME035), K SANTHOSH KUMAR (10X16ME041), a bonafide students of The Oxford College Of Engineering, In partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visveshvaraya Technological University, Belgaum During the academic year 2019-20. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report. The report has been approved and it satisfies the academic requirements in respect of project work prescribed for the award of degree.

Signature of Guide

PROF.RAHUL D Asst. Professor Signature of HOD Dr. MADHUSUDHANA REDDY HOD Signature of Principal

Dr. ARAVIND A S Principal (TOCE)

	NAME OF EXAMINERS	SIGNATURE WITH DATE
1.		
2.		

Hosur Road, Bommanahalli, Bangalore-560068

(Approved by AICTE, New Delhi, accredited by NBA, NAAC, New Delhi & Affiliated to VTU, Belagavi)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to Certify that the project work entitled "Design and Fabrication of Dual Fuel Two Wheeler" is a bona fide work carried GHULAM ALI KHAN (1OX16ME024), out by MR. MOHAMMED AYAZ (10X16ME051), MD ARBAZ KHAN (10X16ME049), AFREED H.S (10X16ME004), students of The Oxford College of Engineering in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2019 – 2020. 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.

Signature of the guide Signa

Signature of HOD

Signature of the Principal

Dr. Madhu Sudana Reddy. G

Name of Examiners: Date Signature with

1.

2.

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BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068

(Affiliated to VTU and approved by AICTE)

DEPARTMENT OF MECHANICAL ENGINEERING



2019-2020

CERTIFICATE

This is to certify that the project entitled **"FABRICATION AND DEVELOPMENT OF FIRE FIGHTING ROBOT USING ARDUINO"** is a bonafide work carried out by Mr.Apparao(USN 10X15ME015), Anand (USN 10X16ME400), Deekshith D N (USN 10X16ME401) and Anilkumar A C (USN 10X17ME402) in partial fulfilment of project in 8th semester, Bachelor of Engineering in the course of Mechanical Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavifor the year 2019-2020. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Signature of Guide

Signature of HOD

Signature of Principal A S Arvind Dept. of ME, TOCE

Mr. Prasad H Nayak Dept. of ME, TOCE

Hosur Road, Bommanahalli, Bangalore-560068 (Affiliated to VTU and approved by AICTE)

Department of Mechanical Engineering



CERTIFICATE

This is to certify that the Project work entitled "DESGN AND FABRICATION OF CONTACTLESS MAGNETIC COIL FOR ENERY GENERATION USING FLYWHEEL FOR ELECTRIC VECHICLES" Is an authentic record of the project work carried out by PUNITH N M (10X16ME067), HARSHA S (10X16ME028), LOHIT AKSHAY T V (10X16ME043), BHARATH H (1OX16ME014), in partial fulfillment for the award of Bachelor of engineering in Mechanical Engineering from Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of HOD

Signature of principal

MR. RAGHUK

Dr. MADHU SUDHANA REDDY G

Dr. ARAVIND A S

-	•		
Exa	mı	ne	r:

Signature with date

1.

2.

Hosur Road, Bommanahalli, Bangalore-560068 (Affiliated to VTU and approved by AICTE)

Department of Mechanical Engineering



CERTIFICATE

This is to certify that the Project work entitled "DESIGN AND FABRICATION OF EMISSION CONTROL AQUA SILENCER." Is an authentic record of the project work carried out by Amit(10X16ME008), Chetan H C (10X16ME020), Chandan N M(10X16ME018), MAHESHWARA(10X16ME046)) in partial fulfilment for the award of Bachelor of engineering in Mechanical Engineering from Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide	Signature of HOD	Signature of principal
Prof. VARUN K R	Dr. Madhu Sudana Reddy G	Dr. A.S.Aravind
F		
Examiners:		Signature with date
1)		

THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bangalore-560068

(Approved by AICTE, New Delhi, accredited by NBA, NAAC, New Delhi & Affiliated to VTU, Belagavi)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project entitled "DESIGN AND FABRICATION OF PNEUMATIC POWER WALL CLIMBING EQUIPMENT" has been carried out by SREELAL M R (10X13ME102), SUBRAMANIYAM N (10X14ME053), ANKUSH KUMAR MUND (10X16ME009), GOWTHAM S (10X16ME402), are the bonafied student of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The seminar report has been approved as it satisfied the academic requirements in respect of seminar prescribed for the said Degree of Bachelor of Engineering.

Signature of guide Mr. T V Nagaraja

Internal Examiner: 1...... 2..... Signature of HOD Dr. Madhu Sudhna Reddy.G

Signature of Principal Dr. A.S Aravind

External Examiner: 1...... 2.....

BOMMANAHALLI, BANGALORE-560068 (Affiliated to Visvesvaraya Technological University, Belagavi)

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the phase one project entitled "BIOREMEDIATION OF ALIPHATIC AND POLYAROMATIC HYDROCARBON IN CRUDE OIL SLUDGE" presented by AKSHAT M JAISWAL (IOX16BT001), B.R SIDDHARTH (I0X16BT010) in partial fulfilment for award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi, during the academic year 2019 – 2020. The phase one project has been approved as it satisfies the academic requirements in respect of phase one project prescribed for the said degree.

Signature of Project Guide

Dr

Department of Blotechnology The Oxford College of Englineering Bengalury - 560 068

(Affiliated to Visvesvaraya Technology University, Belagavi) Bommanahalli, Hosur Road, Bangalore -560068

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the Phase one project entitled "Beneficial Effects Of Compost Tea In Crops" was submitted by Ananya Omprakash (1OX16BT002), Devpriya C (1OX16BT011), Gowthami N (1OX16BT017) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Visvesvaraya Technological University, Belagavi during the academic year 2019-2020. The project report has been approved as it satisfies the academic requirements in respect of phase one project prescribed for the said degree.

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Signature of the Project Guide Mrs. Aswathi Unnikrishnan Assistant Professor, Dept. of Biotechnology

Signature of the HOD Dr. B. K. Manjunatha Professor and Head, Dept. of Biotechnology Dr. B.K MANJUNATHA Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 068.

Bommanahalli, Hosur Road, Bangalore -560068 (Affiliated to Visvesvaraya Technology University , Belagavi)

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the dissertation work entitled "Starting treatment with agonist replacement therapies (START)" was submitted by Ms. Annapoorna Devi (10X16BT003), Ms. Aswathy K H (10X16BT007), Ms. NoorAyisha Khanam (10X16BT026) bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelors of Engineering in Visvesvaraya Technological University, Belagavi during the academic year 2019-2020. The project report has been approved as it satisfies the academic requirements in the respect of project work prescribed for the said degree.

Signature of Project Guide

Signature of Project Guid Ms. Ramya D L Assistant Professor, Dept. of Biotechnology

Signature

Dr. B K Manjunatha Professor & Head, Dept. of Biotechnology Dr. B.K MANJUNATHA Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 068.

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, BANGALORE- 560068 (Affiliated to VTU, Belagavi, Approved by AICTE& Accredited by NAAC & NBA New Delhi) DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the phase one project entitled "COMPARATIVE STUDIES ON PRODUCTION AND OPTIMIZATION OF CELLULASE ENZYME FROM LIGNOCELLULOSIC WASTES USING ASPERGILLUS NIGER BY SUBMERGED FERMENTATION presented by Aswathi C (10X16BT005), B A Yashaswini (10X16BT008), Jasmine Mary (10X16BT020), Lavanya P (10X16BT024) in partial fulfillment for the award of Bachelor of Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2019 - 2020. The phase one project has been approved as it satisfies the academic requirements in respect of phase one project prescribed for the said degree.

Signature of Project Guide

Dr. Valarmathy K Assistant Professor Dept. of Biotechnology

ignature

Dr. B K Maríjunatha Professor and Head Dept. of Biotechnology Dr. B.K MANJUNATHA Professor & Head Department of Biotechnology (he Oxford College of Engineering Bengaluru-560 068.

(Affiliated to Visvesvaraya Technology University, Belagavi) Bommanahalli, Hosur Road, Bangalore -560068

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the Phase one project entitled "The Study of Molecular Alterations Used in the treatment of Glioblastoma Cancer" was submitted by B. Harismitha (10X16BT009), Jeevitha. K (10X16BT021) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Visvesvaraya Technological University, Belagavi during the academic year 2019-2020. The project report has been approved as it satisfies the academic requirements in respect of phase one project prescribed for the said degree.

Signature of the Project Quille

Mr. Divakara. R Assistant Professor, Dept. of Biotechnology

Ur.

Department of Biotechnology The Oxford Contege of Engineering Bengaluru-560 068.

Hosur Road, Bommanahalli, Bangalore-560068 (Affiliated to Visveswaraya Technological University, Belagavi) DEPARTMENT OF BIOTECHNOLOGY





CERTIFICATE

This is to certify that the phase one project entitled "Callus Culture Of Alpinia zerumbet And Extraction Of Secondary Metabolites" was presented by ELAMPARUTHEE M (10X16BT012), GIRI PRASAD S (10X16BT015), GURU PRASAD R K (10X16BT018) in partial fulfilment for the award of Bachelor Of Engineering in Biotechnology of the Viveswaraya Technological University, Belagavi, during the academic year 2019-20 .The phase one project has been approved as it satisfies the academic requirements in the respect of phase one project prescribed for the said degree.

S M.

Signature of Project Guide Ms. Salma Kausar M Assistant Professor Dept. of Biotechnology

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Dr. Bok Manjunatha Deprotessor & Headechnology The Opport of Bistechnofolgineering

BOMMANAHALLI, BANGALORE-560068

(Affiliated to Visvesvaraya Technological University, Belagavi)

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the phase one project entitled "Interaction studies of selected lead candidates with anti-apoptotic Bcl-2 protein to reactivate TRAIL-induced apoptosis in lymphoma cell lines" presented by G Pratheeksha(10X16BT014), Krithika S(10X16BT023), Roshni K K(10X16BT032), Urvi Narayan(10X16BT036) in partial fulfilment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi, during the academic year 2019-2020. The phase one project has been approved as it satisfies the academic requirements in respect of phase one project for the said degree.

Signature of Internal Guide Dr. B. K. Manjunatha Professor and Head of Department of Biotechnology The Oxford College of Engineering

Signature of Head Of The Department Dr. B. K. Manjunatha Department of Biotechnology The Oxford College of Engineering

Dr. B.K MANJUNATHA Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 068.

BOMMANAHALLI, BANGALORE-560068 (Affiliated to VTU, Belagavi, Approved by AICTE, Accredited by NAAC & NBA)

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the phase one project entitled "Extraction, Purification and Characterization of Essential Oil in *Abrus Precatorius* Seed using CO₂ Supercritical Fluid Extraction" presented by GOWTHAM M (1OX16BT016) and RAHUL GOWDA C (1OX16BT030) in partial fulfilment for the award of Bachelor of Engineering of Biotechnology of Visvesvaraya Technological University Belagavi, during the academic year 2019-2020. The phase one project has been approved as it satisfies the academic requirements in respect of phase one project prescribed for the said degree.

Signature of Project Guide

Dr. GANGADHAR GOURIPUR Asst. Prof, Dept. of Biotechnology TOCE, Bangalore

Any Signature of HOD 1

Dr. B K MANJUNATHA Prof. & Head, Dept. of Biotechnology, TOCE, Bangalore.

Dr. B.K MANJUNATHA Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 068.

BOMMANAHALLI, BANGALORE - 560068

(Affiliated to Visveswaraya Technological University, Belagavi)

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the phase one project entitled "Isolation Of Phytoconstituents From Leucas Species Using Advanced Biophysical Technique" was presented by Keerthana M (1OX16BT022) in partial fulfillment for the award of Bachelor Of Engineering in Biotechnology of the Visveswaraya Technological University, Belagavi, during the academic year 2019-2020. The phase one project has been approved as it satisfies the academic requirements in the respect of phase one project prescribed for the said degree.

nature of Project Guide

Asst. Prof. Salma Kausar M

Dr. B. K. Manjunatha

Ur. B.K MANJUNATHA Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 068.

Hosur Road, Bommanahalli, Bengaluru-560068 (Affiliated to Visvesvaraya Technological University, Belagavi)

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that phase one project entitled "A Phase 1, Single- and Repeated-Dose, Open-Label PET Study of the Inhibition of [¹¹C]-R-rolipram Binding to Brain Phosphodiesterase-4 by DNS-3379, a Selective Phosphodiesterase-4 Inhibitor using clinical SAS" was submitted by ABDUL BASITH ALI V K (1OX15BT001), PREETHI K P (1OX16BT029), SONIYA V (1OX16BT035) in partial fulfilment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi, during the acdemic year of 2019-2020. The phase one project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of project guide Ms. Ramya D L Assistant Professor, Dept. of Biotechnology

Inn Signature of HOD

Dr. B K Manjunatha Professor & Head, Dept. of Biotechnology Dr. B.K MANJUNATHA Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 068.

BOMMANAHALLI, BANGALORE- 560068 (Affiliated to Visvesvaraya Technological University, Belagavi)

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the phase one project entitled "Synthesis of Bioplastic From Starch and Phytochemical Extracts From NEEM and TULSI" presented by Prathyusha Pedapati (1OX16BT027), Devi Vara Prasad P (1OX16BT038) in partial fulfillment for the award of Bachelor of Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2019 – 2020. The phase one project has been approved as it satisfies the academic requirements in respect of phase one project prescribed for the said degree.

Signature of Project Guide

Dr. Valarmathy.K Assistant Professor Dept. of Biotechnology

ignature of H

Dr.B.K.Manjunatha Professor & Head Dept. of Biotechnology Dr. B.K MANJUNATHA Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 068

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THE OXFORD COLLEGE OF ENGINEERING BENGALURU – 560068 DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

This is to certify that the seminar *on* **TOWN PLANNING** is a bonafide work carried out by **Mrs. HEMANTH H M (10X17CV411), NAVEENKUMAR GOTUR (10X17CV420), NISHANTH V (10X17CV422), ROHITH M (10X17CV429)** in the partial fulfillment of award of the degree in **BE IN CIVILENGINEERING** from **The Oxford College of Engineering** under **Visvesvaraya Technological University**, Belgaum for the year **2019-20**. The seminar report has been approved as it satisfies the academic requirement in respect of the seminar prescribed for the said degree.

HOD Dr. T S MALLESHAIAH Department of Civil Engineering, TOCE Principal Dr. A S ARVIND TOCE

ANALYSIS AND DESIGN OF (G+22) RESIDENTIAL BUILDING LOCATED IN ZONE-3 USING ETABS

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, BENGALURU-560068



CERTIFICATE

This is to certify that PROJECT has been successfully completed in the partial fulfilment of the 8th semester CIVIL ENGINEERING during the academic year of 2019-2020 prescribed by "VISVESVARAYA TECHNOLOGICAL UNIVERSITY" for the award of the Bachelor of Engineering.

Date:

Place: Bengahuru

Dr. T. S. Malleshaiah(HOD)

Guide

Internal Examiner

External Examiner

BOMMANAHALLI, BENGALURU-560068



CERTIFICATE

This is to certify that the project work entitled A <u>STUDY ON STEEL FIBRE REINFORCED</u> <u>CONCRETE</u> Carried out by Anirud Gowda PR (10x16cv400) Doddaiah N(10x16cv406), Rakesh L Kammar(10x16cv415), Keshappa Rathod (10x17cv413) are bonafide students of The Oxford College of Engineering. In partial fulfilment for the award of the Degree of Bachelor of Engineering. Prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2019-2020. It is certified that all the suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library, the project report has been approved as it certifies the academic requirements in respect of project work prescribed for the said degree.

Dr. Malleshaiah T S

Mr.PRAKASH N

THE OXFORD COLLEGE OF ENGINEERING BENGALURU – 560068 DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

This is to certify that the seminar *on* " KARNATAKA RIVERS AND THEIR CHARACTERITICS" a bonafide work carried out by Mrs. HEMANTH H M (10X17CV411)in the partial fulfillment of award of the degree in BE IN CIVILENGINEERING from The Oxford College of Engineering under Visvesvaraya Technological University, Belgaum for the year 2019-20. The seminar report has been approved as it satisfies the academic requirement in respect of the seminar prescribed for the said degree.

HOD Dr. T S MALLESHAIAH Department of Civil Engineering, TOCE

Principal Dr. A S Arvind TOCE

BANGALORE - 560 068 DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "IMPROVISATION OF ENGINEERING PROPERTIES OF MONTMORILLONITE CLAY USING RED SOIL" carried out by Apoorva Patil G.M (IOX16CV014), Charan.K (IOX16CV019), G.Nandakumar (IOX16CV026), Geeta Sulikeri (IOX16CV027) who are the bonafide students of Department of Civil Engineering, The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering Civil Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2019-2020. It is certified that all corrections or 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.

> Guide Mr. MAHESH KUMAR S Asst. Professor

HOD Dr. T S MALLESHALAH Dept. of Civil Engineering Principal Dr. Dr. A S Arvind The Oxford College of Engineering External Examiner

ü

BANGALORE-560068

DEPARTMENT OF

CIVIL ENGINEERING



<u>CERTIFICATE</u>

This to certify that DARSHAN N (10X16CV022), CHETHANA H S (10X16CV020), GOVINDRAJ M (10X16CV029) have submitted the subject project report entitled "EXPERIMENTAL INVESTIGATION ON THE EFFECT OF AGRICULTURAL WASTE AND INDUSTRIAL WASTE IN CONCRETE". They have satisfactorily completed the project work prescribed by VISVESWARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM for 8th semester B.E curriculum of CIVIL ENGINEERING in this institute for the academic year 2019-2020.

<u>Guide</u> Ms. Yashaswini Asst.Prof civil Dept. TOCE, Bangalore.

.

H.O.D Principal Dr.T S Malleshaiah Asst.Prof. Civil Dept. TOCE, Bangalore. <u>Project Coordinator</u> Ms. Shradha Asst.Prof, civil Dept. TOCE, Bangalore.

> Dr.A S Aravind TOCE, Bangalore.

BOMMANAHALLI, HOSUR ROAD, BENGALURU - 560 068 (Affiliated to VTU and approved by AICTE)

Department of Civil Engineering



CERTIFICATE

This is to certify that the project entitled "SEISMIC ANALYSIS OF A BUILDING WITH SOFT STOREY USING ETABS" work is a bonafide work carried out by Mr. AKHILESH YADAV (USN: 10X18CSE01) in partial fulfillment for the award of MASTER OF TECHNLOGY in STRUCTURAL ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2019-20. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the dissertation accordingly. The report has been approved as it satisfies the academic requirements required for the M.Tech. degree.

Algan & Guide

Mrs. Nayana, B.S. Professor, TOCE

Helt of the Bedartment Department or divit E Taxeserind The Oxford College of Engine The goford College of Engineer Bangalon - 540 068. External Viva

Dr. A. S. Aravind Principal, TOCE Bommanahalli, Hosur Road Sengeluru-560 068. Signature

Name of Examiners

THE OXFORD COLLEGE OF ENGINEERING (Affiliated to Visvesvaraya Technological University, Belagavi) Bommanahalli, Bangalore - 560068

DEPARTMENT OF AUTOMOBILE ENGINEERING



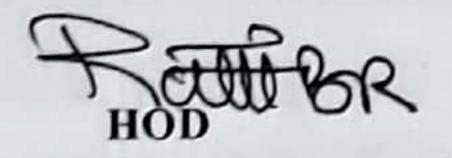
CERTIFICATE

This is to certify that the project work entitled by "INVESTIGATION OF MECHANICAL AND TRIBOLOGICAL BEHAVIOUR OF ARECA-BASALT HYBRID COMPOSITES FOR AUTOMOBILE APPLICATIONS" carried out by following bonafide students of The Oxford College of Engineering, PRASHANTH S (10X16AU406), RAJATH V KASHYAP (10X17AU404), SHAIK HAMMAD (10X16AU028), SPOORTI B PATIL (10X16AU030) in partial fulfillment for the award of Bachelor of Engineering in Automobile Engineering as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2019-20. It is certified that all corrections/suggestions 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 report prescribed for the said degree.



GUIDE

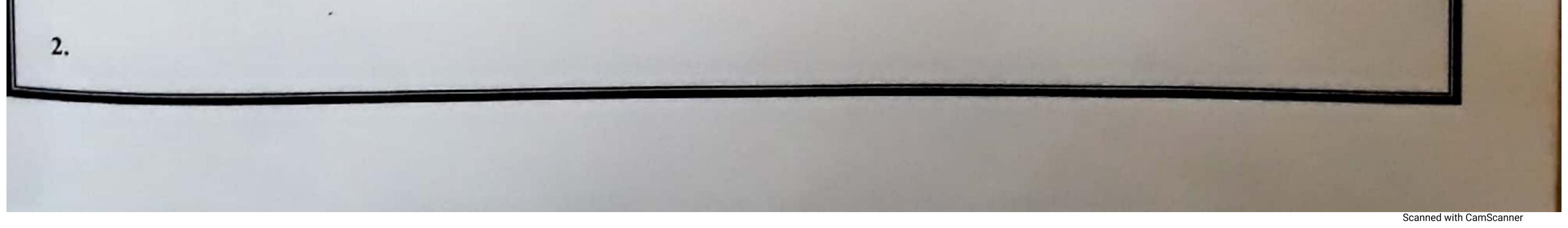
Mr. MARUTHI S B Assistant Professor



Dr. RAJU B R Professor & Head Department of Andomonie Engineering The Oxford College of Engineering Bommanahalli, Hosur Road Name of the Examiners.



Dr. A SARAYIND The Oxford Collegination Engineering Bommanahalli, Hosur Road Bengaluru-560 068. Signature / Date



(Affiliated to Visvesvaraya Technological University, Belagavi)

Bommanahalli, Bangalore - 560068

DEPARTMENT OF AUTOMOBILE ENGINEERING



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CERTIFICATE

This is to certify that the project work entitled by "OIL LEVEL & NOZZLE TIP PROTRUSION MEASUREMENT" carried out by following bonafide student of THE OXFORD COLLEGE OF ENGINEERING, RIJITH S 10X16AU025, in partial fulfilment for the award of BACHELOR OF ENGINEERING in AUTOMOBILE ENGINEERING as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2019-20. It is certified that all corrections/suggestions 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 report prescribed for the said degree.

INTERNAL GUIDE

MR. MARUTHI S B Assistant Professor

HOD

Professor and Head

DR. RAJU B R

Department of Automobile Engineering, TOCE

EXTERNAL GUIDE

MR. CHINNADURAI R Deputy Manager- Central Quality

Professor & Head Department of Automobile Engineering The Oxford College of Engineering Bommanah II, Hosur Road

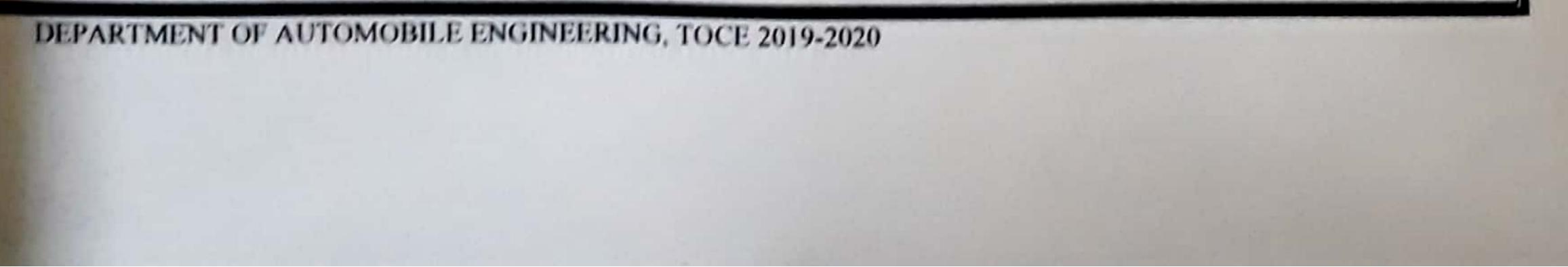
Department of Automobile Engineering

Name of the Examiners

1. Dr. Raph. BR 2. Marcthi. SB

Ashok Leyland Ltd – HOSUR A. A. Araund PRINCIPAL DR. A S ARAVIND PRINCIPAL The Oxford College of Engineering BomficeCle, Hading and Road Bengaluru-560 068.

Signature / Date



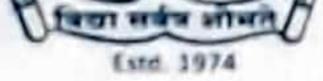
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BOMMANAHALLI, BANGLORE - 560068

(Affiliated to VTU)

DEPARTMENT OF AUTOMOBILE ENGINEERING

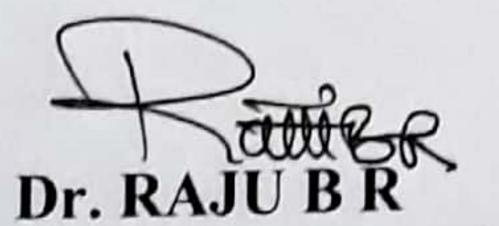


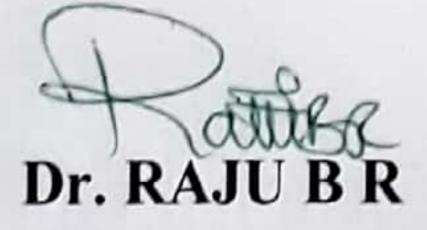


CERTIFICATE

This is to certify that ZUFI NAIYAR (USN-10X16AU041), ANDREW JAIRAJ AP (10X16AU002), RIJITH S (10X16AU025), AKSHAY KUMAR N (10X17AU400) has successfully completed the project work entitled "PERFORMANCE AND EMISSION CHARACTERSTICS OF IC ENGINE FUELED WITH THREE BIO-DIESEL BLENDS" under the guidance of Dr. RAJU B R towards the partial fulfillment of requirements for the award of degree of Bachelor of Engineering in Automobile Engineering at "The Oxford College of Engineering" as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2019-2020. It is

certified that I had successfully completed seminar and submitted the report in due time.





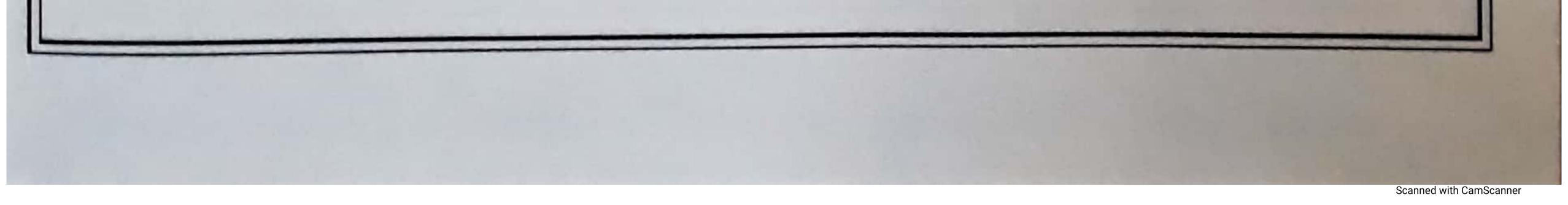
Guide

Professor & Head Department Automomentagementing The Oxford College of Engineering Bommanahalli, Hosur Road Bangalore - 560 068.

The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068.

Name of Examiners

Signature/Date



THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bangalore-560068 (Approved by AICTE, New Delhi, Accredited by NBA, NAAC, New Delhi & Affiliated to VTU, Belagavi)



CERTIFICATE

Certified that the Project entitled "Fabrication of Electron Offset Wheel For Two Wheeler Vehicle" has been carried out by Mandanna K B (1OX16AU015), Mohammed Shahid Afridi M (1OX16AU017), Mohammed Shezan W (1OX16AU018), Poojith A (1OX16AU023), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Automobile Engineering of Visvesvaraya Technological University, Belagavi during the year 2019-2020. Thus, is certified that all correction / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department

library. The project report has been approved as it satisfies the academic requirements in respect to the project work.

Prof Maruthi S B

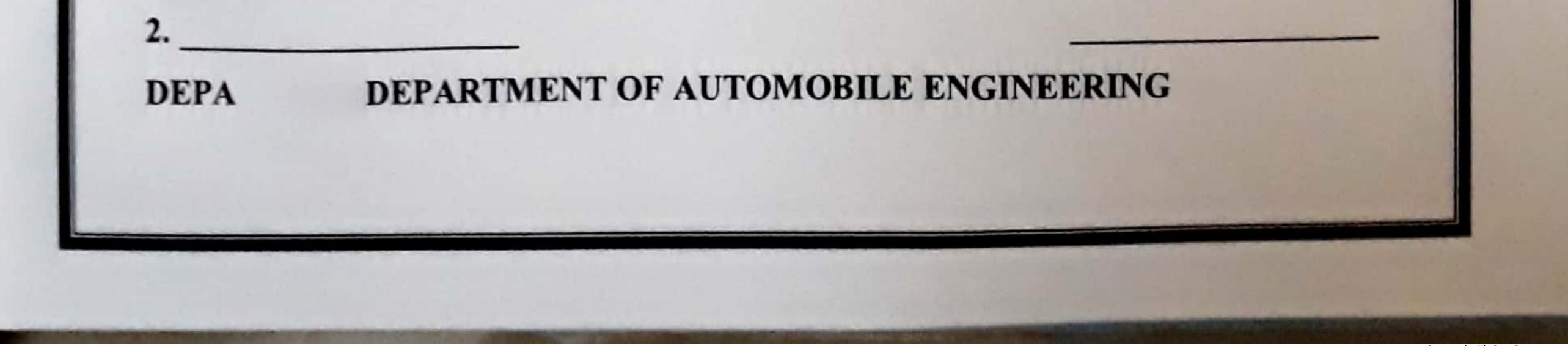
Asst Professor

Dr. Raju B R H.O.D / AUE

External Viva

Name of the Examiners 1. Marth SR

Signature with Date



(Affiliated to Visvesvaraya Technological University, Belagavi)

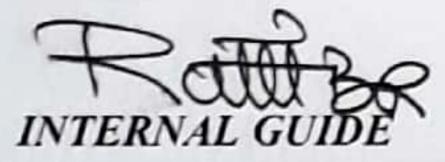
Bommanahalli, Bangalore - 560068

DEPARTMENT OF AUTOMOBILE ENGINEERING



CERTIFICATE

This is to certify that the project work entitled by "OIL LEVEL & NOZZLE TIP **PROTRUSION MEASUREMENT**" carried out by following bonafide student of THE **OXFORD COLLEGE OF ENGINEERING, SHIVAKUMAR.K.KHANAPUR** (10X14AU030), in partial fulfillment for the award of BACHELOR OF ENGINEERING in AUTOMOBILE ENGINEERING as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2019-20. It is certified that all corrections/suggestions 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 report prescribed for the said degree.

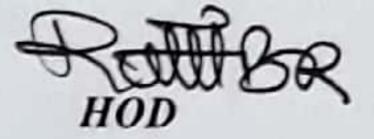


DR. RAJU B R

EXTERNAL GUIDE MR. CHINNADURAI R Deputy Manager-Central Quality Ashok Leyland Ltd -HOSUR

HOD

Department of Automobile Engineering, TOCE



DR. RAJU B R

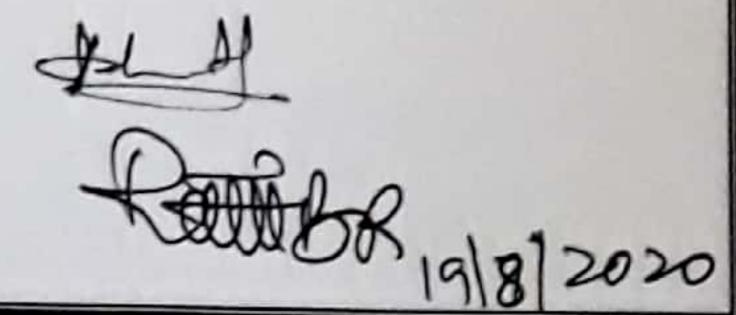
Professor and Head Professor & Head Departmenttoo AvAcmohileb File Engineering The Oxford College of Engineering Bommanahalli, Hosur Road Bangalore - 560 068.

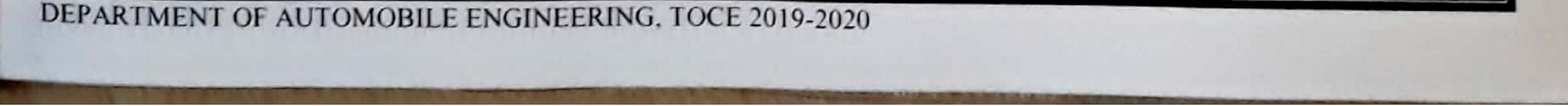
Name of the Examiners

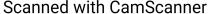
PrincipalPAL The Oxford E. Bangalofingineering Bommanahalli, Hosur Road Bengaluru-560 068.

PRINCIPA

Signature / Date







(Affiliated to Visvesvaraya Technological University, Belagavi)

Bommanahalli, Bangalore - 560068

DEPARTMENT OF AUTOMOBILE ENGINEERING



CERTIFICATE

This is to certify that the project work entitled by "OIL LEVEL & NOZZLE TIP **PROTRUSION MEASUREMENT**" carried out by following bonafide students of THE **OXFORD COLLEGE OF ENGINEERING, VIGNESH P (10X16AU038), in partial** fulfilment for the award of BACHELOR OF ENGINEERING in AUTOMOBILE ENGINEERING as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2019-20. It is certified that all corrections/suggestions 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 report prescribed for the said degree.

INTERNAL GUIDE MR. MARUTHI S B EXTERNAL GUIDE

MR. CHINNADURAI R

Assistant Professor Department of Automobile Engineering, TOCE

HOD DR. RAJU B R

2.

Professor and Head

Department of Automobile Engineering

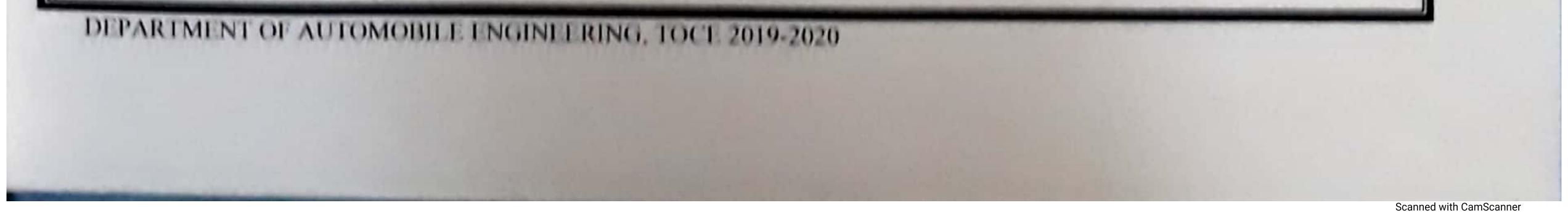
Name of the Examiners

Moruthi. SB 1.

Deputy Manager- Central Quality Ashok Leyland Ltd - HOSUR

PRINCIPAL DR. A S ARAVIND Principal TOCE, Bengaluru

Signature / Date



(Affiliated to Visvesvaraya Technological University, Belagavi)

Bommanahalli, Bangalore - 560068

DEPARTMENT OF AUTOMOBILE ENGINEERING



CERTIFICATE

This is to certify that the project work entitled by "OIL LEVEL & NOZZLE TIP PROTRUSION MEASUREMENT" carried out by following bonafide students of THE OXFORD COLLEGE OF ENGINEERING, ANIL KUMAR M (10X16AU003), in partial fulfilment for the award of BACHELOR OF ENGINEERING in AUTOMOBILE ENGINEERING as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2019-20. It is certified that all corrections/suggestions 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 report prescribed for the said degree.

INTERNAL GUIDE



EXTERNAL GUIDE

MR. CHINNADURAI R

Assistant Professor Department of Automobile Engineering, TOCE

HOD

DR. RAJUBR

Professor and HOD

Profession date Engineering Department of Automobile Enginearing The Oxford College of Engineering Bommanahalli, Hosur Road Sangalore-560 068.

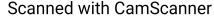
Manuthy. SB

Deputy Manager- Central Quality Ashok Leyland Ltd - HOSUR

The Oxford College of Engineering BomriEOCE, BengaluruRoad Bengaluru-560 068.

Signature / Date





THE OXFORD COLLEGE OF ENGINEERING HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068 (Affiliated to VTU and approved by AICTE)

Department of Mechatronics Engineering



CERTIFICATE

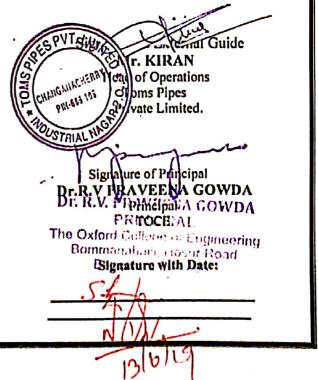
This is to certify that the internship report work entitled "An Industrial Study at Toms Pipes Pvt. Ltd." has been successfully carried out by SHYJIN SCARIA SAJI (1OX15MT043) is a bona fide student of The Oxford College Of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all corrections, suggestions, indicated for internal assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements in respect of internship prescribed for awarding Bachelor of Engineering degree.

Signature of Indental Guide Mr. THIRUMURUGAN N Asst. Prof Dept. of Mechatronics. TOCE.

Mr. HAYARUMARN Department Départmentronics The Oxford Oellegy UP Enginesting Bommanghalli, Bangal

Name of the Examiners:

MUYHANY



BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068 (Affiliated to VTU and approved by AICTE) DEPARTMENT OF MECHATRONICS ENGINEERING



2018 - 2019

<u>CERTIFICATE</u>

Certified that the Internship Report entitled "BASIC ROBOT PROGRAMMING IN KUKA ROBOTICS" carried out by Mr. VIVEK PURUSHOTHAM (10X15MT049), Mr. VINEETH V(10X16MT412), bonafide students of The Oxford College of Engineering, Bangalore inpartial fulfillment for the award of the Degree of Bachelor of Engineering in MECHATRONICS ENGINEERING of Visvesvaraya Technological University, Belgaum during the year 2018-2019. The Internship report has been approved as it satisfies the academic requirements in respect of Internship report prescribed for the saiddegree.

nature ofInternalGuide



Name of the Examiners 1. <u>SHAW MUGHAVIES</u> 2. <u>N. Mugumuruger</u>

Prof. & HODE HOD D Department of Mechatronics The Oxford College Of Engineering Bommanahalii, Bangalore - 560 068. re of Phincipal yeena Howda, DA PRINCIPAL The Oxford College of Engineering Eenga

(Affiliated to Visvesvaraya Technological University, Belagavi) Hosur Road, Bommanahalli, Bengaluru – 560 068 DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

This is to certify that the Internship work entitled "SOLAR PV GRID CONNECTED POWER PLANT AND RENEWABLE ENERGY" has been successfully carried out by Mr. POOJITH V bearing USN: 10X15MT032, Mr. PRAJWAL BELLIAPPA PP bearing USN: 10X15MT030 and Mr. ASHOK KUMAR A bearing USN: 10X15MT001 in partial fulfilment of the requirement for the award of Bachelor of Engineering in Mechatronics Engineering under Visvesvaraya Technological University, Belagavi during the academic year 2018-19. It is certified that all corrections, suggestions, indicated for internal assessment have been incorporated in the report accordingly. The internship report has been approved as it satisfies the academic requirements in respect of internship prescribed for awarding the Bachelor of Engineering degree.

Signature of Principal

Signature of HOD Signature of Internal Dr. R.V. PRAVEENA GOWDA for Prof. & HOD Guide Departmentyorkumanthonics Asst. Professor, Dept. The Dire Billere Offeringhe Oxfor Gowda of Engineering Bommanahalli/Bartgalore - 560 068. of MTE

Dr. RV Praveena TOCET Road

Name of the examiners 1. SHANMUGIADAS 2. W. (Junumusugan

Signature of examiners

ii

Bommanahalli, Hosur Road, Bangalore - 560068

(Affiliated To Visvesvaraya Technological University, Belagavi)

Department of Mechatronics Engineering



CERTIFICATE

This is to certify that the Internship entitled "HYBRID AUTOMOTIVE DESIGN AND DEVELOPMENT" has been carried out by RAGHAV KANOONGO (10X15MT035) bona fide students of The Oxford College of Engineering, Bangalore, in partial fulfilment for the award of the degree of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-2019. The Internship Report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said degree.

GUIDE

Mrs. RAJESHWARI DINESH Dept. of Mechatronics engineering

HOD Ully

Jayakumar N. Department of Mechatronics Engineering TOCE, Bangalore.

EXTERNAL GUIDE

Mr. CHANDRAKANT RAMCHANDANI



Dr. R. V. Pravecena Gowda TOCE, Bangalore, COWDA

PHARE PAL The Oxford Collega of Engineering Bommanahalli, Hasur Road Signaturg with date 88.

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Bommanahalli, Hosur Road, Bangalore - 560068

(Affiliated To Visvesvaraya Technological University, Belagavi)

Department of Mechatronics Engineering



CERTIFICATE

This is to certify that the Internship entitled "HYBRID AUTOMOTIVE DESIGN AND DEVELOPMENT" has been carried out by RAGHAV KANOONGO (10X15MT035) bona fide students of The Oxford College of Engineering, Bangalore, in partial fulfilment for the award of the degree of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-2019. The Internship Report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said degree.

GUIDE

Mrs. RAJESHWARI DINESH Dept. of Mechatronics engineering

HOD Julely

Jayakumar N. Department of Mechatronics Engineering TOCE, Bangalore.

EXTERNAL GUIDE

Mr. CHANDRAKANT RAMCHANDANI



Dr. R. V. Praveeena Gowda TOCE. Bangalore. Dr. R.V. Bowda

PDAN The Oxford Cost indire Engineering Bommanaha¹⁹, Hoisur Road Signature with date(88,

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BOMMANAHALLI, HOSUR ROAD, BENGALURU – 560 068 (Affiliated to VTU and Approved by AICTE)

DEPARTMENT OF MECHATRONICS ENGINEERING



2018-2019

CERTIFICATE

This is to certify that the Internship work entitled "IOT WITH MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE" has been successfully carried out by MR. RAGHU J bearing USN: 10X16MT406 in partial fulfillment for the award of BACHELOR OF ENGINEERING in MECHATRONICS ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year JULY-AUGUST 2018.

It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The internship report has been approved as it satisfies the academic requirements required for the above said degree.

ature of Internal Guide MS . Rani Aishwarya S N

Signature of External Guide Mr. Kailas V V

Mechatronics The Oxford College Of Engineering > Bommanahalli, Bangalore - 560 068

Dr. R.V. Praverna Gowda Dr. R.V. Praverna Gowda The Oxford College of Engineering Bommanahalii, Hosur Road Bengaluru-560 088.

Signature of Examiners

Name of the Examiners

STANMU GAPDAS

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THE OXFORD COLLEGE OF ENGINEERING HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068 (Affiliated to VTU and approved by AICTE)

Department of Mechatronics Engineering



CERTIFICATE

This is to certify that the internship report work entitled "Industrial Automation" has been successfully carried out by JOSH ELIAS JOY (10X15MT017), JIVIN GEORGE (10X15MT016), P SUMANESH MOHAN (10X15MT031), DENNIS MD (10X15MT011) students of The Oxford College Of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all corrections, suggestions, indicated for internal assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements in respect of internship prescribed for awarding

Bachelor of Engineering degree.

HOURCING MExternal Guide ignature of External Guide Signature of Internal Guide Mrs. RAJESWARI M Technical Coordinator STRINGER ONLA Assistant Professor hre by Gos Global Pvt Ltd Dept. of MTE OCE Signature of Pelncipal Signature of HOD **Dr. PRAVEENA GOWDA** Mr. JAYAKUMAR N Dr. R.V. Principal TNA GOW DA Head of Department Dept. of MTE HOD TOCE INTL to of Engineering The Oxford / Depa chatronics TOCE Bommer chain, Hosur Road The ! ing Bengaluru-560 068. Signature with Date: Eo : Name of the Examiners: NNMUGHAN 1 2 . 0

THE OXFORD COLLEGE OF ENGINEERING HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068 (Affiliated to VTU and approved by AICTE)

Department of Mechatronics Engineering



CERTIFICATE

This is to certify that the internship report work entitled "An Industrial Study at Toms Pipes Pvt. Ltd." has been successfully carried out by SHYJIN SCARIA SAJI (1OX15MT043) is a bona fide student of The Oxford College Of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all corrections, suggestions, indicated for internal assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements in respect of internship prescribed for awarding Bachelor of Engineering degree.

Guide Signature of Internal Guide r. KIRAN Mr. THIRUMURUGAN N THANGANACYERA lead of Operations Asst. Prof Dept. of p111.685 105 of bms Pipes Mechatronics, vate Limited. TOCE. STAIA Signature of Principal Dr. R.Dr.R.Y. PRAVEENA GOWDA 8ignat ng **MABINITIONICS** PANC Pringipal The Oxion College Of Engineering The Oxford College TOCE ineering Bomniananalli, Bangalore - 50' Bommanahaili, Hucur Road Bengaluru-560 068. Signature with Date: Name of the Examiners: MUGUADA 16/19

(Affiliated to Visvesvaraya Technological University, Belagavi) Bommanahalli, Bengaluru-560068

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

Certified that the internship entitled "BASIC AUTOMATION TECHNOLOGIES" is carried out by Mr. DARSHAN R with USN 10X15MT010, Mr. MOHITH S with USN 10X15MT025, Mr. VIKAS S REDDY with USN 10X15MT047 in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2018-2019. It is certified that all corrections suggestions indicated for internal assessment has been incorporated in the report. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for the said degree.

1/1/16/19 S.N. Rardur

Signature of Internal Guide Ms. RANI AISHWARYA S N

Signature of External Guide Mr. RAHUL DIXIT

Name of the Examiners

1. SHANNINGODS 2. A. Alexanurugar

Signature of HOD Dr. JAYAKUMARN Signature of Principal Dr. PRAVEENA GOWDA The Oxfo neering Signature with dateed

THE OXFORD COLLEGE OF ENGINEERING HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068 (Affiliated to VTU and approved by AICTE)

Department of Mechatronics Engineering



<u>CERTIFICATE</u>

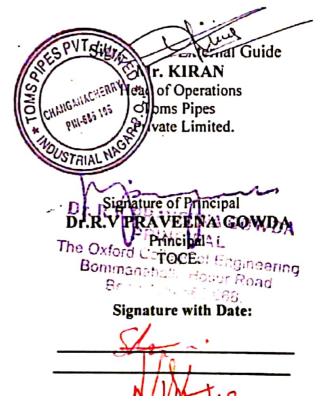
This is to certify that the internship report work entitled "An Industrial Study at Toms Pipes Pvt. Ltd." has been successfully carried out by SHYJIN SCARIA SAJI (1OX15MT043) is a bona fide student of The Oxford College Of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engincering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all corrections, suggestions, indicated for internal assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements in respect of internship prescribed for awarding Bachelor of Engineering degree.

Signature of life mal Guide Mr. THIRUMURUGAN N Asst. Prof Dept. of Mechatronics, TOCE.

Signature of HOD Mr. JAYAKUMAR N Department of Departmenthatronics The Oxford College Of Engineering Bommanahalli 5

Name of the Examiners:

(DNM46, HADA



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THE OXFORD COLLEGE OF ENGINEERING HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068 (Affiliated to VTU and approved by AICTE)

Department of Mechatronics Engineering



CERTIFICATE

This is to certify that the internship report work entitled "RAPID PROTOTYPING USING CAMD/CAD FOR FABRICATING PROTOTYPES" has been successfully carried out by GADHIYA ABHAYKUMAR DIPAKBHAI (10X15MT013) and VISHAL PATEL(10X15MT048) bonafide student of The Oxford College Of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all corrections, suggestions, indicated for internal assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements in respect of internship prescribed for awarding Bachelor of Engineering degree.

The Principa leef Guide Dr. R V Praveena Gowda Mr. Chethan S Piro textora College O. Engineering Dr. R.V. PRAVEENA GOWD Asst.Professor, Dept. of MTE Formanabalis Pvt. Ltd. - 380 PRINCIPAL The Oxford Collog and Engineering R Bommanana Read Bentshunds, unn Director **Signature of Examiners** Name of the Examiners 1. SUANMUGHADVAS 2. J. Marumusugan ii

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BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068

(Affiliated to VTU and approved by AICTE) DEPARTMENT OF MECHATRONICS ENGINEERING



2018 - 2019

CERTIFICATE

Certified that the Internship Report entitled "BASIC ROBOT PROGRAMMING IN KUKA ROBOTICS" carried out by Dharmendra S (10X15MT012), Asif Jambagi (10X16MT400), Kanthraju (10X16MT402), Vinay Kumar K V (10X16MT411), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in MECHATRONICS ENGINEERING of Visvesvaraya Technological University, Belgaum during the year 2018-2019. The Internship report has been approved as it satisfies the academic requirements in respect of Internship report prescribed for the said degree.

Signature of Internal Guide



Debt of MTBatronics The Oxford College Of Engineering Bommanahalli, Burgel are - 560 368. Signature of Principal Dr. R.V. PRAVEENA GOWDA PRINCIPAL The Oxfore Wilego of Engineering Both Land Okan tr Road Bengaldn: 550 068.



Children's Education Society @ THE ONFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 080-30219601/02, Fax : 080-25730551,30219629, Website: <u>INTR. Massofind.edg</u> Email : <u>engrumenvd a theoxford.edu</u> (Appennet by AlUTE, Sen Ibelle, According by SIAS, SAAC, Sen Ibelle & Amiliard in YTU, Belgaum) CERTIFICATE

This is to certify that A. GOPI PRASHANTH bearing USN: 10X18MBA01 is a bonafide student of Master of Business Administration course of the Institute 2018-2020, affiliated to Visvesvaraya Technological University, Belgaum Project report on "A STUDY ON EFFECTIVENESS OF TRAINING AND DEVELOPMENT "is prepared by him under the guidance of Dr. R.V. Dhanalakshmi, in partial fulfillment of the requirement for the award of the degree of Master of Business Administration of Visvesvaraya Technological University, Belgaum Karnataka.

Signature of Internal Guide

1)

2)

Signature of HOD

HOD, Pepti of Euclidess Administration The Oxford College of Engineering Bommanahalli, Hosur Road Bangalore - 560 068

For Viva Voce

TISigualuit Congerung Inginiseting Bommanahalli, Hosur Road Bengaluru-560 068.



Children's Education Society @ THE ONFORD COLLEGE OF ENGINEERING Hosur Road, Bommanaballi, Bengaluru-560 068 080-30213001A12, Fax 080-23730551_00219629, Websitements (Booslond of Court company) attended (Approved by AICH, See Brits, Accordited by MIA, MAAC, New Debit & Ameland in VID, Indexamp CERTIFICATE

This is to certify that ADARSH L bearing USN: IOX18MBA02, is a bonafide student of Master of Business Administration course of the Institute 2018-20, affiliated to Visvesvaraya Technological University, Belgaum, Project report on "A STUDY ON OVER HEAD ANALASIS AND ITS IMPACT ON TOTAL COST" is prepared by him under the guidance of DR R.V Dhanalakshmi, in partial fulfillihent of the requirement for the award of the degree of Master of Business Administration of Visvesvaraya Technological University, Belgaum Kamataka.

ignature 6 RAIGAN

Signature of Internal Guide

Signature of 110D

HOD, Heptl. of Business Administration The Oxford College of Engineering Bommanahalli, Hosur Road Bangalore - 560 068

For Viva Voce

The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 063.

1) 2)



This is to settify that ADARSII: Alltheating USN: 10518AIIA034s a bonafide student of Master of Business Administration course of the Institute 2018-20 affiliated to Visvesvaraya Technological University: Belgaum, Project repair on A STUDY ON EUSTOMER SATISFACTION prepared by Himther under the guidance of DR: R: V BIIANALAESIINI, HOB NBA Department in partial fulfillment of the requirement for the award of the degree of Master of Business Administration of Visvervaraya Technological University, Belgaum Karnataka

1)

2)

nternal Guide

Sig HOD, Hept of Lauren Alannin belaa The Oxford College of Engineering Bommanaballi, Hosur Road ALAIS . or Viva Voce

Andineennu Bommanahalli, Hosyr Road Bengaluru: 560 068,

Children's Education Society 20 THE ONFORD COLLEGE OF ENGINEERING Hosur Road, Bommattahalli, Bengaluru-560 068 081-0219001212 Fax 081-25733551,30219529; Websitershyn Dwystestiech Honol (manuscipal a theostail edu Metwitershyn Dwystestiech Honol (manuscipal a theostail edu Metwitershyn Dwystestiech Honol (manuscipal a theostail edu

CERTIFICATE

This is to certify that AKHEEL RAMEES KPbearing USN: 10X18MBA04, is a bonafide student of Master of Business Administration course of the Institute (2018-20), affiliated to Visvesvaraya Technological University, Belgaum, Project report on "A STUDY ON EFFECTIVENESS OF RETAILING STRATEGIES IN RELIANCE FRESH" is prepared by him under the guidance of Dr. R.V. DHANALAKSHMIin partial fulfillment of the requirement for the award of the degree of Master of Business Administration of Visvesvaraya Technological University, Belgaum Kamataka.

Signature of Internal Guide

dc Signature of 110D HOD, itepit, of Ecsiness Administration The Oxford College of Engineering Bommanahalli, Hosur Road Bangalore + 560 068

Signinui? BIRGHPinat

The Oxford College of Engineering Bommanahaili, Hosur Road Bengaluru-560 C68.

For Viva Voce

2)

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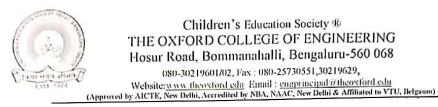
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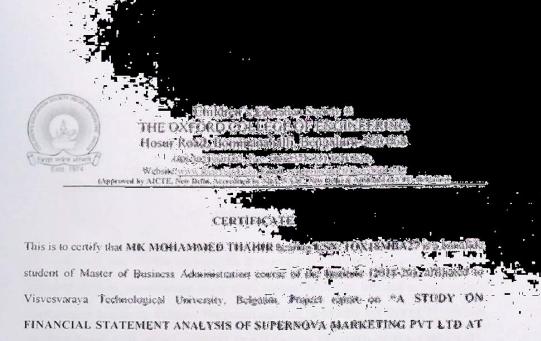
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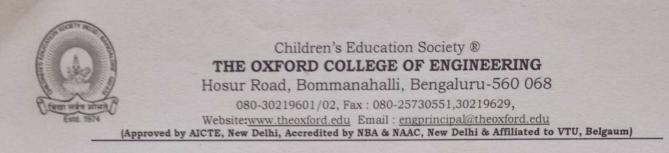
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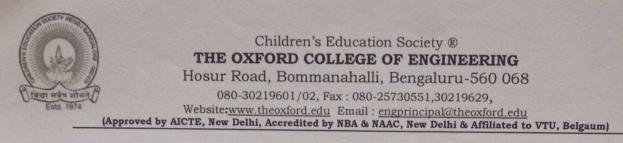
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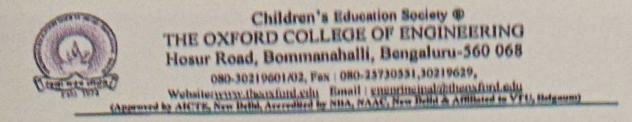
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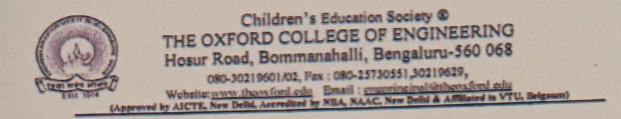
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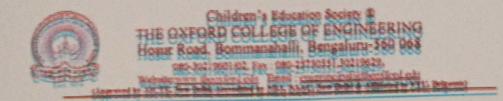
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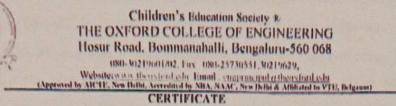
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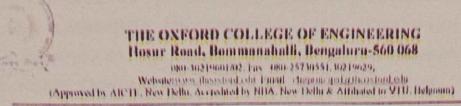
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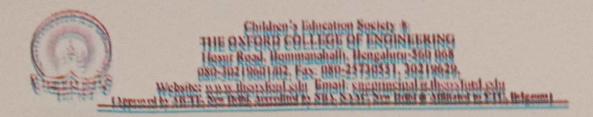
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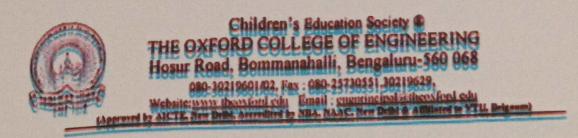
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Bommanahalli, Hosur Road, Bongaluru-560068 Department of Master of Computer Applications



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DEEPRAJ SAHOO

10X17MCA02

During the academic year 2019-2020

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Ashok B P (Dept. Of MCA, TOCE)

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Name of Examiners

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Dr. M.S. Shashidhara (Dept. of MCAcTOCE) Department of MCA HURIN Road. BANGALORE -

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Dr. A.S Aravind (Principal, TOCE, Bangalore) PRINCIPAL Department of Engineering Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068. Signature with date

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MUZAFFAR RASHID

10X17MCA03 During the academic year 2019-2020

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Dr. M.S. Shashidhara

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PRUTHVI RAJ.K

10X17MCA04

During the academic year 2019-2020

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Prof. Usha Sree (Dept. Of MCA, TOCE)

Signature drine HOD Dr. M.S. Shashidhara

(Dept of MCA TOCE)

Signature of the Principal

Dr. A.S Aravind

(Principal, TOCE, Bangalore) PRINCIPAL

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Bengaluru-560 068. Signature with date

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Name of Examiners

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Department of Master of Computer Applications



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result of the bonafide work carried out by

RAVI SHARMA

10X17MCA05

Mindule

Signature of the Guide Prof. Mridula Shukla (Dept. Of MCA, TOCE)

During the academic year 2019-2020

Signature of the HO Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

Signature of the Principal

Dr. A.S Aravind

(Principal, TOCE, Bangalore)

Inc Head Department of MCA The Oxford College of Engineering The Oxford College of Engineering The Oxford College of Engineering Hosmi Road, BANGALORE Bengalury 560 068. Signature with date

External Viva

1. 2.

Name of Examiners

Bommanahalli, Hosur Road, Bengalum-360068 Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"Al based Application for Multiple Color Detection in Real Time Using Python and Machine Learning, "

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi Is a result of the bonafide work carried out by

SHWETA PATEL

10X17MCA06

During the academic year 2019-2020

Signature of the Gakle

Dharamvir (Dept. Of MCA, TOCE)

External Viva

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Name of Examiners

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Dr. M.S. Shashidhara (Dept of MCA, TOCE)

Department of MCA The Oxford College of Engineeri Notes Road, BANGALORE -

re of the Principal

Dr. A.S Aravind

(Principal, TOCE, Bacaslere)

PRINCIPAL The Oxford College of Englossing Bommanabalii, Hosur Road Signalum selum 4550 088.

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"Advanced Re-Recognition of Automobiles Using Machine Learning"

Submitted in partial fulfillment of the requirement for the award of the degree of Master of Computer Application

> From Visvesvaraya Technological University, Belagavi Is a result of the bonafide work carried out by

SUMAIYA

10X17MCA08 During the academic year 2019-2020

Signature of the Guide

Mrs.Mridula Shukla (Dept. OFMCA, TOCE)

External Viva

Name of Examiners 1. 2.

Signature of the

ignature of the Principal

Dr. A.S Aravind

Dr. M.S. Shashidhara (Dept. of MCA, TOCE) The Head

Department of MCA The Oxford College of Engineering Bommanahalli, Hosur Road Busne Road, BANGALORE -

(Principal, TOCE, Bangalore) RINCIPAL The Oxford College of Engineering Bengaluru-550 068. Signature with date

Bommanahalli, Hosur Road, Bengaluru-560 068 **Department of Master of Computer Applications**



CERTIFICATE

This is to certify that the project work entitled

"DETECTING MOBILE MALICIOUS WEBPAGES"

Submitted in partial fulfilment of the requirement for the award of the degree of

Master of Computer Applications

from Visvesvaraya Technological University, Belagavi

is a result of the bonafide work carried out by

Amuk Priya M

10X18MCA50

During the academic year 2019-2020

Signature of the Guide Dr. M S Shashidhara (HOD Dept of MCA TOCE) Department of MCA

The Oxford College of Engineering Hum Road, BANGALORE -External Viva

Signature of the Principal Dr. A.S Aravind

(Principal, TOCE, Bangalore) (Principal, TOCE, Bangalore) The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068.

Signature with dat

Name of Examiners

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Bommanahalli, Hosur Road, Bengaluru-560 068 **Department of Master of Computer Applications**



CERTIFICATE

This is to certify that the project work entitled

"Predictive Discovery Techniques Provider with Charts"

Submitted in partial fulfillment of the requirement for the award of the degree of Master of Computer Applications

From Visvesvaraya Technological University, Belagavi Is

a result of the bonafide work carried out by

AMULYACL

IQX18MCA51

During the academic year 2019-2020

Signature of the Guide Mrs. Mridula Shukla (Dept. OIMCA, TOCE)

External Viva

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Name of Examiners

Sier Dr. M.S. Shashidhyra

(Deman MEADTOCE) Department of MCA HUINI ROID, BANGALORE -

Principal

Dr. A.S Aravind

(Principal, TOCE, Bangalore) PRINCIPAL The Oxford College of Engineering Bommenahalli, Hosur Road Bongalury-560 068. Signature with date

Bommanahalli, Hosur Road, Bengaluru-560 068 **Department of Master of Computer Applications**



CERTIFICATE

This is to certify that the project work entitled "Employee Tracking and Report System"

Submitted in partial fulfillment of the requirement for the award of the degree of Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

Anandhu Sasikumar

10X18MCA52

During the academic year 2019-2020

Signature of the Guide

Prof. Dharamvir. (Dept. OFMCA, TOCE)

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Name of Examiners

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Dr. M.S. Shishidhara (Dept. d'MCNoffece) Department of MCA Hosus Road, BANGALORE -

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THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"SMART METER READING"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

ANITHA S

10X18MCA53

During the academic year 2019-2020

Signature of the HOD

Dr. M.S. Shashidhara

Signature of the Principal

Dr. A.S Aravind (Principal, TOCE, Bangalore)

The Head Department of MCA The Oxford College of Engineering Bommanahalli, Hosur Road Husur Road, BANGALORE -

PRINCIPAL. The Oxford College of Engineerin Bengaluru-560 063. Signature with date

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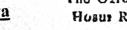
Name of Examiners

Prof. Usha Sree

(Dept. Of MCA, TOCE)

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he Guide



(Dept. of MCA, TOCE)

THE OXFORD COLLEGE OF ENGINEERING Bommunahalli, Hosur Road, Bongalura-560 068 Department of Master of Computer Applications



This is to certify that the project work entitled

"ADVANCED AND SIMPLIFIED MANAGEMENT SYSTEM FOR HOSPITAL USING .NET TECHNOLOGY"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

ANKITHA S HEBBAR

10X18MCA54 During the academic year 2019-2020

Signature of the Odide

Prof. Dharmvir (Dept. OF MCA, TOCE)

External Viva

Name of Examiners

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Signdu Dr. M.S. Shishidhara

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Dr. A.S Aravind

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(Principal, TOCE, Bangalore) PRINCIPAL The Oxford College of Engineering The Oxford College of Engineerin Bommanahalli, Hosur Road

Bongaluru-560 068.

Houns Road, BANGALORE -

Bommanahalli, Hosur Road, Bengahm-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled "Advanced Data Sharing Through Cloud with Two Factor

, Authentication"

Submitted in partial fulfillment of the requirement for the award of the degree of

Muster of Computer Applications

Freen Visvesvaraya Technological University, Belagavi is

a result of the bonafide work carried out by

Anup Thakur

IOXIBMCA55

During the neadenile year 2019-2020

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Dr. M.S. Shashidhara (Dong Of A Lice) (D

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Dr. A.S Araviad PRINCE: Interiore (Prince: Interiore) The Oxford College of Engineering Bommanahalli, Hosur Road Bongaluru-560 088.

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"Secure Way to Maintain transaction Details Using Secure Computing"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

Name Aruna Kumar Sahoo

USN 10X18MCA56

During the academic year 2019-2020

Signatu Signature of the Principal

Signature of the Guide **Prof. Dharamvir** (Dept. Of MCA, TOCE)

Dr. M.S. Shashidhara (Dept. of MCA, TOCE)

Dr. A.S. Aravind The Oxions TOOF Bangal Engineering Bommanahalli, Hosur Road Bengaluru-560 068.

External Viva

Name of Examiners

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Bommanahalli, Hosur Road, Bengaluru-560 068 Department of Master of Computer Applications

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CERTIFICATE

This is to certify that the project work entitled

"RELIC a Period Artifacts Collector App"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University. Belagavi Is a result of the bonafide work carried out by

C B RAMESH

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Signature of the WOD

Dr. M.S. Shashidharn

During the academic year 2019-2020

Signature of the

Prof. Dharamvir (DOM OF MCA, TOCE)

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Name of Examiners

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Signature of the Principal

Dr. A.S Aravind

(Dept. of MON, HSCP) Department of MCA PHINCIPAL The Oxford College of Engineering Husus Road, BANGALORF Bommanahall, Hosur Road Bongaluru-560 068.

Signature with date

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Remmanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work enrifed "Electronic Medical Record Data Abstraction For Improve Diagnostic Classification"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by CHINTHALA SAUTEJA SREE

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During the academic year 2019-2020

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Dr. A.S Aravind PRINCIPAL Mincell, 1901, Mindrey The Oxford Collegia of Eliginocenen Bammanahalk, Hosur Road Bangalars-560.065

Bommanahalli, Hosur Road, Bengaluru-560 068 Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"'Effective mechanism to diplo cloud using crypto analyses"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvarnya Technological University, Belagavi

Is a result of the bonafide work carried out by

Arjun Vishwanath Dhalgude 10X18MCA61

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

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Signature of the

Prof. Dharamvir (Dept OTMCA, TOCE)

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NameofExaminers

During the academic year 2019-2020 Signature of the Principal

Dr. A.S Aravind

(Principal, TOCE, Bangalore) PRINCIPAL

Department of MCPhe Oxford College of Engineering The Oxford College of EngineBommanahalli, Hosur Road Husur Road, BANGALORE - Bengaluru-560 068. Signature withdate

3

Bommanahalli, Hosur Road, Bengaluru-560 068 Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"RESOURCES PLANNING TOOLS WITH CHARTS AND REPORTS"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

ESHWAR

10X18MCA62

During the academic year 2019-2020

Signature of the Guide

Mrs. Mridula Shukla (Dept. of MCA, TOCE)

External Viva

Name of Examiners

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ignature of the Principal

Dr. M.S. Shashiddary

Dr. A.S Aravind

(Dept of MCA, TOCE) (Principal TOCE Remealore) The Head The Oxford College of Engineering Department of MCA Bommanahalli, Hosur Road The Oxford College of Engineerine Bengaluru-560 068. Hosur Road, BANGALORE Signature with date

Bommanahalli, Hosur Road, Bengaluru-560 068 Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled "Renting Long and Earning More"

Submitted in partial fulfillment of the requirement for the award of the degree of Master of Computer Applications

> From Visvesvaraya Technological University, Belagavi Is a result of the bonafide work carried out by

> > Geny Joy 10X18MCA63

During the geademic year 2019-2020

Signature of the Guide

Prof. Dharamvir (Dept. Of MCA, TOCE) Signature of the Hop

Signature of the Principal Dr. A.S Aravind

Dr. M.S. Shashidhara Dr. A.S Aravind (Dept. of V(CA470GE) (Principal RB/NGIPAlee) Department of MCA The Oxford College of Engineering Bommanahaill, Hosur Road Busus Road, BANGALORE - Bengaluru-560 068.

External Viva

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Name of Examiners

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"PERFORMANCE ANALYZER AND MANAGER TOOLS WITH RECONCILIATION"

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

HARSHITH S

10X18MCA64

During the academic year 2019-2020

Prof.Ashok B P (Dept. OFMCA, TOCE)

External Viva

Name of Examiners

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Dr. M.S. Shahidhira. Drph.S.Arayind Dr. M.S. Chr. Bonseillen Griede Croescingelicheering Husm Rozd. BANGALORE - Bonsmanshalli, Hosur Road Bengaluru-560 065

THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road, Bengalum-560 068 Department of Master of Computer Applications



This is to certify that the project work entitled

"DIAGNOSTIC SEGMENTATION CREATOR WITH OPTIMIZATION ANALYZER"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

MADHUKAR K

10X18MCA67

During the academic year 2019-2020

the Guide

Prof.Ashok B P (Dept. Of MCA, TOCE)

Dr. M.S. Millinghanan Drp. Anayind Dr. Dipitikanikahanan Drp. Anayind the Ordina Mark Jonnensia Iba Aslond Cross- Unpublisheering Husut Road, BANGALORE - Bommanahalli, Hosur Road Bengaluru-560 065.

External Viva Name of Examiners

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Bommanahalli, Hosur Road, Bengahiru 560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ROBUST AND AUDITABLE ACCESS CONTROL WITH MULTIPLE ATTRIBUTE AUTHORITIES FOR CLOUD STORAGE"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

Mythra S M

10X18MCA70

During the academic year 2019-2020

Signature of the Guide

Dr.MS Shashidhara (HOD, Dept. of MCA,TOCE) Enc. Hand Enc. Hand Enc. MCA

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Name of Examiners

Signature of the Principal

Dr. A.S Aravind (Principat NOSH Rangalore) The Oxford College of Englobening Bommanahalli, Hosur Road Bengalury 560 068.

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Department of Staster of Computer Applications



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Submitted in partial fulfiliment of the requirement for the award of the degree of

Master of Computer Applications

From Viewessaraya Technological University, Belagavi Is a reach of the boundide work carried out by

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During the activitie year 2019-2020 e of the

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(Dept. of MCA, TOCE) Repartment of ML

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Name of Examiners

Evternal Vina

(Dept Of MCA, TOCE)

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"Hosted Management Tool With Effective Analysis"

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

NARENDRA REDDY S

10X18MCA73

During the academic year 2019-2020

Signature of the Guide

Prof. Usha Sree (Dept. Of MCA, TOCE)

External Viva

Name of Examiners

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Signature of the MOD

Signature of the Principal

Dr. M.S. Shashidhara **Dr. A.S Aravind** (Dept. of MCA, TOGERA (Dept. of MCA, TOCKEA The Orincipal, TOCE, Bangalore) Department of Engineering The Oxford College of Engineering Che Oxford College of Engineering HUSUI Road. BANGALORE Bengaluru-560 068.

THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road, Bengaluru-560 068 Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"VIRUOSITY-Smart Tenets For Skill Capturing App"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

NIVEDITHA J

10X18MCA74

During the academic year 2019-2020

Signature of the Guide Prof. Ashok B.P. (Dept. Of MCA, TOCE)

External Viva

Name of Examiners

- 1.
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Dr. M.S. Shashidhara

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Dr. A.S Aravind

(Dept. of MCA. TOCE) (Principal TOCE Bangalore) Department of MCA The Oxford College of Engineering The Oxford College of Engineering Husur Road. BANGALORE - Bengaluru-560 068.

Bommanahalli, Hosur Road, Bengaluru-560 068 Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"UNTANGLE: SIMPLIFIED BUGS TRACKING"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi Is a result of the bonafide work carried out by

PRANAV M

10X18MCA75

During the academic year 2019-2020

Signa

Signature of the Principal

Dr. A.S Aravind

(Dept. of MCA, TOCE)

Dr. M.S. Shashidhara

(Principal, TOCE, Bangalore) PRINCIPAL

The Heau The Oxford College of Engineering Department of MCA Bommanahalli, Hosur Road The Oxford College of Engineeringengaluru 560 068. Hosur Road, BANGALORE Signature with date

Signature of the Guide

Prof. Mridula Shukla (Dept. Of MCA, TOCE)

External Viva

Name of Examiners

1. 2. THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"Multifaceted Structuring With Security Algorithms And Policies"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

RAMYA H R

10X18MCA78

During the academic year 2019-2020

6/2020

Signature of the Guide

JC Achutha (Dept. Of MCA, TOCE)

External Viva

Name of Examiners

- 1.
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Signature of the HOD

Stenature of the Principal

Dr. M.S. Shahidhara, DrpA.S. Arayind Departmentide and the state of the Bengaluru Road, BANGALORE - Bommanahalli, Hosur Road Bengaluru-560 068.

Bommanahalli, Hosur Road, Bengaluru-560 068 Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

Hidden Ciphertext Policy Attribute-Based Encryption With Fast Decryption

for Personal Health Record System

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visveswaraya Technological University, Belagavi is a result of the bonafide work carried out by

RAVI G

10X18MCA79

During the academic year 2019-2020

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External Viva Name of Examiners 1.

2.

Sig

Signature of the Principal Dr. M.S. Shashidhara Dr. A.S. Aravind

(Dept. of MCA, TOCE)

The Head Department of MCA The Oxford College of Engineering The Oxford College of Engineering Bommanahalli, Hosur Road Husur Road, BANGALORE - Bengaluru-560 068.

Signature with date

(Principal, TOCE, Bengaluru)

Bommanahalli, Hosur Road, Bengaluru-560 068 .

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"A SECURITY BASED FRAMEWORK FOR HEALTHCARE SERVICES"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

REVATHIN

10X18MCA80

During the pcademic year 2019-2020

2020 Signature of the Guide

Mr. JC Achutha (Dept. Of MCA, TOCE)

Dr. M.S. Shashidhara

(Dept St MOA TOCE) Department of MCA The Oxford College of Engineeri-Husus Road, BANGALORE -

Signature of the Principal

Drpanagavine The Aniasta Pole Bangangine

Bommanahalli, Hosur Roac Bengaluru-560 068

Signature with date

External Viva

Name of Examiners

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2.

Bommanahalli, Hosur Road, Bengaluru-560 068 Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"STEP TO BETTER DRIVE"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

is a result of the bonafide work carried out by

ROOPESH K P

10X18MCA82

During the academic year 2020-2021

Signature of the Guide and HOD

Dr. M.S. Shashidhara (Dept. QfMCAcTOCE) Department of MCA The Oxford College of Engineerin, External Viva Road, BANGALORE -NameofExaminers

Signature of the Principal

Dr. A.S Aravind PRINCIPAL (PrintipabTrocc Hangaloue) (PrintipabTrocc Hangaloue) Bommanahalli, Hosur Road Bengaluru-560 068

Signature withdate

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1. 2.

CS

Bommanahalli, Hosur Road, Bengaluru-560 068 Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"IQ TEST SYSTEM"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

Name:Sangeetha N

USN:10X18MCA83

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Dr. M.S. Shashidhara (DepDof MCA-TOCE) MCA The Orford College of Engineerine Husur Road. BANGALORE -External Viva

Name of Examiners

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Signature of the Principal

Dr. A.S Aravind PRINC BAllorc) The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068.

Bommanahalli, Hosur Road, Bengaluru-560 068 **Department of Master of Computer Applications**



CERTIFICATE

This is to certify that the project work entitled

"Onres: An easy result checking system"

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

SANJANA B

10X18MCA84

During the academic year 2019-2020

Signature of the Guide Prof.Ashok B P

нQD Sig

Signature of the Principal

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Dept. of MCA^O TOCE - Bongaluru: 560 OFF HUE UXIOIU UNICEC OI ENERICECT HUEUI Road. BANGALORE

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Name of Examiners

(Dept. Of MCA, TOCE)

1. 2.

Bommanahalli, Hosur Road, Bengaluru-560 068 **Department of Master of Computer Applications**



CERTIFICATE

This is to certify that the project work entitled

"Advanced Retaking System to retrieve the image using Content-**Based Retrieval**"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

SHILPA M

IOX18MCA85

During the academic year 2019-2020

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Dharamvir

(Dera OFMCA, TOCE)

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1. 2.

Name of Examiners

Dr. M.S. Skashidhera

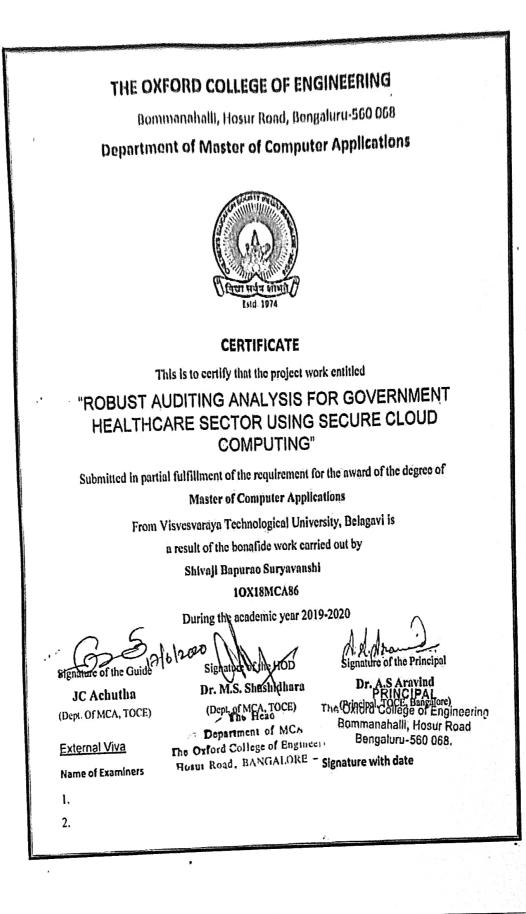
(Dept. ofMCAcTOCE) Department of MCA

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Dr. A.S Aravind

(Principal, TOCE, Bangalore) PRINCIPAL The Oxford College of Engineering Hosts Read, SANGALORE * Bornmanshall, Hoster Road Bengalurg-560 068. Signature with date

Certificate



Bommanahalli, Hosur Road, Bengaluru-560 068 Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"PICTURE RETRIEVAL TAG BASED BY SOCIAL NETWORKS"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi is a result

of the bonafide work carried out by

Shivakumar S

10X18MCA87

During the academic year 2019-2020

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Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

Signature of the Principal

Dr. A.S Aravind

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Department of MCA The Oxford College of Engineering The Oxford College of Engineerin Bommanahalii, Hosur Road Hosus Road, BANGALORE -Bengaluru-560 068.

Signature with date

EXTERNAL VIVA

Prof. Dharamvir

(Dept. Of MCA, TOCE)

Name of Examiners

1

Bommanahalli, Hosur Road, Bengaluru-560 068 **Department of Master of Computer Applications**



CERTIFICATE

This is to certify that the project work entitled

"Ecommerce System –Admin module"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

SHIVANAND 10X18MCA88

During the academic year 2019-2020

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

Hosus Road, BANGALORE -

Department of MCA

2020 Signature of the Guide Signa

Mr. JC Achutha

(Dept. Of MCA, TOCE)

External Viva

Name of Examiners

Signature of the Principal

Dr. ARINGYML The Querta Collegeonda Empineering Bommanahalli, Hosur Road Bengaluru-560 068 The Oxford College of Engineer

Signature with date

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State the state THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road, Bengaluru-560 068-**Department of Master of Computer Applications** CERTIFICATE This is to certify that the project work entitled **"BUSINESS MANAGEMENT APPLICATION FOR** AVIATION MANAGEMENT SYSTEM" Submitted in partial fulfillment of the requirement for the award of the degree of Master of Computer Applications From Visvesvaraya Technological University, Belagavi Is a result of the bonafide work carried out by SINGALA UGANDHAR IOX18MCA89 During the academic year 2019-2020 2000 ure of the Principal Signatu Signature of the Dr. ABINGIAA Dr. M.S. Shashidhara Oxford College of Engineering Bommenanalin, Hosur Road Prof. Jc Achutha The (Dept be Midageroce) (Dept. OF MCA, TOCE) Department of MCA Bongaluru-560 068. The Orford College of Engineering HUSTE Road, BANGALORE -External Viva Signature with date Name of Examiners 1. 2.

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"Smart Card Health Security System"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi Is a

result of the bonafide work carried out by

Devkar Sonali Bhajandas

10X18MCA90

During the academic year 2019-2020

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of the Guide Sign Frof. Asbok B.P. (Dept. Of MCA, TOCE)

External Viva Name of Examiners

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Dr. M.S. Shashidhara

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HUNNI Road, BANGALORE -

Signature of the Principal

Dr. A.S Aravind (Dept of MCA TOPE) (Prindpot UCC American Department of MCA The Oxford College of Engineering the Oxford College of Engineering (the Oxford College of Engineering Bonnanahall, Hosur Road Bangaluru-560 068.

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled "REMINISCENCE: A LIFETIME STUDENTSHIP OF AN ALUMNUS"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi Is

a result of the bonafide work carried out by

SOWMYA M N

10X18MCA91

During the academic year 2019-2020

Signature of the Guide

Prof. Mridula Shukla (Dept. Of MCA, TOCE)

Signa Dr. M.S. Sha

(Dept. of MCA, TOCE) The Head

Signature of the Principal

Dr. A.S Aravind

(Principal, TOCE, Bangalore) PRINCIPAL

External Viva

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Name of Examiners

The Head Department of MCA^{The} Oxford College of Engineering The Oxford College of Engineerin[®] Bommanahalli, Hosur Road Hosus Road, BANGALORE - Bongaluru-560 058. Signature with date

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work emitted

"Advanced Techniques to prevent Data leakage with secure system"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvervaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

Saraj Ubnjano

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During the grademic year 2019-2020

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Mr. JC Achutha

(Dip. OFMCA, TOCE)

(Dept. d'MCRUTOCE) Department of Miles Ibs Oxford College of Engines House Road, BANGALORE -

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Signature with date

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Bommanahalli, Hosur Road, Bengaluru-560 068 Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"Effective mechanism to cluster the data using crypto analysis"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visveswaraya Technological University,

Belagavi Is a result of the bonafide work carried out by

Onkarnath Shivraj Swami

10X18MCA93

During the academic year 2019-2020

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Prof. Mridula

Shukla (Dept. Of MCA, TOCE)

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NameofExaminers

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Signature of the Principal

HOP Signaturi Dr. M.S. Shashidhara

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(Dept. of MCA, TOCE) (Princi

(Principal, TOCE, Bangalore) PRINCIPAL

The Oxford College of Engineering Department of MCA The Oxford College of Engineering Bommanahalli, Hosur Road Husus Road, BANGALORE - Bengaluru-560 068. Signature withdate

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Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"MEDICINAL PLANT"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi Is

a result of the bonafide work carried out by

VISHNU K

10X18MCA95

During the academic year 2020-2021

Signature of the Guide

R. Ushasree

(Dept. OF MCA, TOCE)

External Viva NameofExaminers

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Signature of the HOD

Dr. M.S. Shashidhara

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Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"Control Panel Intelligence with Pattern Pairing"

Submitted in partial fulfillment of the requirement for the award of the degree of

Master of Computer Applications

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

YASHASWINI G S

10X18MCA97

During the academic year 2019-2020

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JC Achutha (Dept. Of MCA, TOCE)

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Name of Examiners

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Dr. M.S. Shashidhara (Dept: By MGA TOCE) Department of MCn

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Signature of the Principal

Dr A SARavind The ORIGIOICS BURE Mineerine Bommanahalli, Hosur Road Bengaluru-560 068.