

CHILDREN'S EDUCATION SOCIETY (Regd.) THE OXFORD COLLEGE OF ENGINEERING

(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi. Approved by A.I.C.T.E. New Delhi. Recognised by UGC Under Section 2(f)) Bommanahalli, Hosur Road, Bangalore - 560 068. Ph: 080-61754601/602, Fax: 080 - 25730551 E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

INDEX

SN	DEPARTMENT	PAGE NO
1	Computer Science Engineering	1 - 31
2	Information Technology	32-52
3	Electronics and Communication Engineering	53-72
4	Electrical and Electronic Engineering	73-105
5	Mechanical Engineering	106-115
6	BioTechnology Engineering	116-132
7	Civil Engineering	133-139
8	Automobile Engineering	146-153
9	Mechatronics Engineering	154-169
10	Master of Business Administration	170-209
11	Master of Computer Appliances	210-263

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CERTIFICATE

Certified that the project work entitled "AUTOMATED IRRIGATION SYSTEM" carried out by ANVVS SAI SHREEYA (10X14CS001), ACHALA C SHETTY (1OX14CS002), KAVYA KT(1OX14CS040) and SUPRIYA S(1OX14CS096), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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.

Mr. Senthil Kumar **Project Guide**

Vice Principal and H.O.D Professor & Head of Department/CSE THE OXFORD COLLEGE OF ENGINEERINGT. RV Praveena Gowda Bengaluru 560058 External Viva

Dr. R.V. Praveena Gowda

Principal, TOCE

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

13/6/18

Name of the Examiners 1. SHUBHA RAJ K.B.

2. Dr R J Anavellin

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



Certified that the project work entitled "A NOVEL WIRELESS DEVICE TO CONTROL MOBILE PHONES IN LOW END CARS" carried out by CHAITRA G R (10X14CS013), CHINMAYI K P SHETTY (10X14CS015). CYNTHIYA SIMIONA (10X14CS017), JYOTHI B M (10X14CS033) bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. This 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 of project work prescribed for the said Degree.

Project Guide

Dr. R. Anandhi

Vice Principal and H.O.D Dr. R J Anandhi Vice Principal Bengaluru - 560068.

Praveena Gowda

Principal, TOCE Dr. RV Praveena Gowda Professor & Head of Department/CSE The Oxford College of Engineering THE OXFORD COLLE External Visa G Portport of Engineering Principal Bommanahaili, Hosur Road Bengaluru-560 068

Name of the Examiners

1 SHUBHA RAJ K.B.

2. Br. R. J. ANONOH

Signature with Date 6118

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING 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 "The Ring: A smart device for women safety" has been carried out by Adarsh Hegde (1OX14CS003), Kishore K Deshpande (1OX14CS041), Narayana G (10X14CS051), Shivanagouda Patil (10X15CS417), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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.

Le coe H.S. Mr. Naveen H S

Assistant Professor

Dr. R

Praveena Gowda

Dr. R J Anandhi Vice Principal & H.O.D **Principal, TOCE** Professor & Head of Department OGSE V Praveena Gowda THE OXFORD COLLEGE OF ENGINEERING

Principal

Bengokternap Wearhe Oxford College of Engineering Bommanahalli, Hosur Road Bendaluru-560 068

Name of the Examiners

RAJ K.B. 1.SHUBHA

RJ

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bangalore-560068

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CERTIFICATE

Certified that the project entitled "Electrical Meter Reading using Raspberry pi" has been carried out by Mahesh MS (10X14CS113), Nithish Venkatesh (10X14CS057), Piramanayagam S (10X14CS059), Varun Kumar S (10X15CS421), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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 seminar work.



Dr. R. Vice Principal H.O.D

Dr. R.V. Praveena Gowda

Professor & Head of Department/CSE Dr. RV Praveena Gowda THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068. External Viva

Principal, TOCE Principal The Oxford College of Engineering

Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners

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K. B. 1. SHUBHA

Signature with Date 13/6/18

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



Certified that the project work entitled "STUDENT AND FACULTY TRACKING WITHIN THE CAMPUS" carried out by CHANDAN THREEDEV (10X14CS014), DIVYA G (10X14CS021), M DHANUSRI (10X14CS045), NISHITHA EDWARD (10X14CS055) bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. This 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 of project work prescribed for the said Degree.

Prof. Sushma Gunjal Project Guide

Dr. R.J. ArandhiDr.R.V.PraveenaGowdaVice Principal and H.O.DPrincipal, TOCEDr. R J AnandhiVice PrincipalVice PrincipalDr. R V Praveena GowdaProfessor & Head of Department/CSEPrincipalTHE OXFORD (Different) (CSE)PrincipalBengaluru - 560068.Bommanahaili, Hosur RoadBengaluru - 560 068Bengaluru - 560 068

Name of the Examiners

1 SHUBHA RAJ KB

2. Dr R J Anandh

Signature with Date

106/18

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



Certified that the project entitled "FACESMASH: AI ASSISTED SOLUTION FOR MUSIC, CROWD MANAGEMENT AND SECURITY" carried out by DRITHIMAN M (10X14CS022), KARUNA KIRAN BHADRA (10X14CS039), MOHAMMED SALMAN (10X14CS050) and RANSOM DAVID (10X15CS415) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. This 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 project work.

net Kumari Anandhi eena Gowda Prof. Je Dr. R J Anandhi Vice Principal & H.O.D Principal, TOCE Professor & Head of Department/CSEDr. RV Praveena Gowda **Project Guide** Principal THE OXFORD COLLEGE OF ENGINEERING The Oxford College of Engineering Bengaluru - 560068. Bommanahalli, Hosur Road Bengaluru-560 068 External Viva Name of the Examiners Signature with Date DIRJ 1. SHUBHA RAT KB. 13/06/18

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI-590018



A Project Report

On

"DESIGN AND DEVELOPMENT OF THE HELP DESK

SYSTEM"

Submitted in the partial fulfillment of the requirements for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering

Submitted by

ALWINA MORIN DSA	(10X14CS007)
SANDEEP DEBNATH	(1OX14CS078)
J NIROSHA	(1OX13CS025)

MOOLAN EMANUELE THOMAS (10X13CS044)

Under the guidance of

Ms. Sushma Gunjal

Assistant Professor,

Dept. of CSE



Department of Computer Science and Engineering

The Oxford College of Engineering

Bommanahalli, Bangalore-68

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

2017-2018

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

Certified that the Project work entitled "RAAC: Robust and Auditable Access Control with multiple Attribute Authorities for Public Cloud Storage" carried out by CHITHRA R (10X14CS016), B SRUTHI (10X15CS402), NABIN KUMAR SINGH (10X13CS047) and PALLAVI K K (10X15CS414) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. This is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The seminar report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Ms. Sushma T S

Assistant Professor

Dr. Dr. R J Anandhi

Vice Principal & H.O.D Professor & Head of Department/CSE

Praverna Gowda

Bringinal TOCE Praveena Gowda THE OXFORD COLLEGE OF ENGINEERING The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

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1. by R J Iman alun 2. SHUBHA RAT KB

Name of the Examiners

Signature with Date 06 18

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI-590018



A Project Report On

"Android Based Application to Detect Potholes and Uneven Roads in the City"

Submitted in the partial fulfillment of the requirements for the award of the Degree of **Bachelor of Engineering in Computer Science and Engineering**

Submitted by

AMIT DEBNATH (1OX14CS008) **ARJUN ASHOK KUMAR** (1OX14CS010) **CHAITANYA S** (1OX14CS012) (1OX14CS029)

GEORGE JAMES

Under the support and guidance of

Ms. Sowmya H.K. Assistant Professor Department of CSE



Department of Computer Science and Engineering 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) 2017-2018



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Hosur Road, Bommanahalli, Bangalore-560068

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CERTIFICATE

Certified that the project entitled "Visual Based e-Service for Transportation System for BMTC" has been carried out by Durgashree (1OX14CS024), Jyothsna Dcosta (1OX14CS034), Nikitha B (1OX14CS053), Priyanka Suriya (1OX14CS066), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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 seminar work.

Ms. Seema Patil

Associate Professor

Dr. R Dr. R J Anandhi Vice Principal & H.O.D Professor & Head of Department/CSE Dr. RV Praveena Gowda THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068 **External Viva**

R.V. Praveena Gowda **Principal, TOCE** Principal

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

Name of the Examiners 1. Rachitha .m.v 2. Sowmya HK.

Signature with Date



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Certified that the Project entitled "IOT Based Smart Helmet For Unsafe Event Detection For Mining Industry" has been carried out by Duggireddy Anusha (1OX14CS023), Karthik S (1OX14CS038), Meenakshi R (1OX15CS410), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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.

108 august Mrs. Mary Nathisiya

Dr. R. Anandhi

Dr. R.V. Praveena Gowda

Assistant Professor

Dr. R. J. Anandhi Vice Vizincinal 6 H.O.D Principal, TOCE. Professor & Head of Department/CSE Dr. R.V. Praveena Gowda THE OXFORD COLLEGE OF ENGINEERING Faincinal Bengaluru - 560068. The Oxford College of E

External Viva

Name of the Examiners

1. <u>Rachitha m.v</u> 2. <u>Sowmya</u> HK.

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

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CERTIFICATE

Certified that the project entitled "COLLECTIVE HYPING DETECTION SYSTEM TO IDENTIFY ONLINE SPAM ACTIVITIES USING AI" carried out by ADITHYA JAIN (10X14CS004), BIKASH SAH (10X14CS011), HARSH WADHWA (10X14CS031), KARAN AGARWAL (10X14CS037) bonafide student of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Ms. Florance G. Dr. R Anandhi Praveena Gowda Vice Principal & H.O.D. Br. RJ Anandhi **Project Guide** Principal Dr. RV Pravcena Gowda Vice Principal Professor & Head of Department al THE OXFORD COLLEGE OF ENGINEERING te of Engineering Bengaluru - 560 068 Name of Examiner Signature with date achithaimiv 1. achitha m.v 1. 2. 2.



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CERTIFICATE

Certified that the Project entitled "OXYPOST" has been carried out by Fatimah Mehnaz (1OX14CS025), Krittika Chakraborty (1OX14CS43), Meghana M B (1OX14CS048), Yashvardhan (1OX14CS111), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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 prescribed for the said Degree.

Prof. Naveen H S

Project Guide

DC-R-J Aanadahi

Provises Principal of Department/CSE THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068.

Dr. R V Praveena Gowda

Principal, TOCE

Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahaiil, Hosur Road Bengaluru-560 068 Signature with Date

Name of the Examiners

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



CERTIFICATE

Certified that the project entitled "IOT Based Water Management and Control Apartments" carried out by PRIYADARSHINI System in BORA (10X14CS063), PRIYANKA SANU (10X14CS065), SIRAJAN V (10X14CS087), SUDESHNA DEY (10X14CS094) bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. This 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 project work.

Ms. Chandanita Thakur Assistant Professor

V. Praveena Gowda

Vice P 1.O.D Professor & Head of Department/CSPr. RV Praveena Gowda THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068

Principal, TOCE

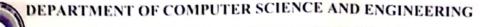
Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bendaluru-560 068

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Name of the Examiners

1. Rachitha. m.v 2. Souma Ha

Signature with Date Rachetter 13/6/18



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 "Smart Base Station" has been carried out by Soram Dingku Singh (10X14CS088), Savitri Swamy (10X14CS081), Shwetha S (1OX14CS085), Naziya Banu (1OX14CS405), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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.

Assistant Professor

Vice Principal & v.b Professor & Head of Department/CSE Bengetternan Viva

Dr. R. V. Praveena Gowda

Dr. RV Principal, TOCE raveena Gowda

THE OXFORD COLLEGE OF ENGLISERING he Oxford College of Engineering Bommanahaili, Hosur Road Bengaluru-560 068

Name of the Examiners ichi tham v

Signature with Date

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



CERTIFICATE

Certified that the project entitled "Autonomous Traffic Signal Control System" has been carried out by Dini Rose M.D (1OX14CS019), Sanna Meer (1OX14CS079), Shagufta S (1OX14CS082), Sheetal S (1OX14CS084) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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 project work.

Jahrenden 12/6/18 Ms.Koyel Sinha Chowdhury

Project Guide

Dr.R.J. Anarthi

Dr. R.V Pravečna Gowda

Dr. R. J Anandhi Vice Principal and HuO.D Principal, TOCE Professor & Head of Department/CSE V Proceedia Cowda THE OXFORD COLLEGE OF ENGINEERING Provided Bengaluru - 560063 The Oxford Coules of Engineering

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Signature with Date

Name of the Examiners

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bangalore-560068

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CERTIFICATE

Certified that the project work entitled "Question Paper Generation Using Fuzzy Logic" carried out by RASHMI B AMATIGOWDAR (10X14CS071), SWATI YADAV (10X14CS099), VINEETHA J (10X14CS107), ARABINA TAJ (10X15CS401), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-18. Thus, 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.

ash. Ms. Aishwayya

Project Guide

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Dr. R.J.	Anandhi

Dr Vice Principal & H.O.D Professor & Head of Department/CSE Dr. RV Praveena Gowda THE OXFORD COLLEGE OF ENGINELKING Bengaluru - 560068.

External Viva

Praveena Gowda

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

Signature with Date

Name of the Examiners Kachitha my 1. Jowmya HR



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



CERTIFICATE

Certified that the seminar entitled "Intelligent Assistive technology for Dementia" has been carried out by SUBRATH KUMAR PATRA (1OX14CS093), SUHAS B (1OX14CS095), SURESH B (1OX14CS098), VISHAK A (1OX14CS108) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. This 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 project work.

Ms. Jesy Janet Kumari Project Guide

Name of the Examiners

l. Anandhi Dr. R

Dr. R J Anandhi Vice Principal and H.O.D Professor & Head of Department/CSE Bengaluru - 560068 External Viva

Dr. RW Pravena Gowda

Dr. RVPraveena Gowda Principal THE OXFORD COLLEGE OF ENGINEERINThe Oxford Collage of Engineering Bommanahalii, Hosur Road Bengaluru-560 068

Signature with_Date

I.SHUBHA RAJ KB. 2. Dr R J Anondhi

14/06/18



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING 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 work entitled "EVE-DROID" carried out by SRIRAM C (10X14CS091), ROSHAN S (10X14CS073), SRINIVAS J L (10X14CS090), PRAVATH KUMAR PATRA (IOX14CS062) bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. This 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 of project work prescribed for the said Degree.

Dr. R.J. Apandhi

Guide & H.O. D andhi Vice Frincipal Professor & Head of Department/CSE THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068

Name of the Examiners

R

2. SHUBHA RAT KA

1. Dr

Anondh

Dr. R.J. Anandhi Dr. R J Anandhi Vice Principal & H.O.D Professor & Head of Department/CSE

R.V. Praveena Gowda

Principal, TOCE THE OXFORD COLLEGE OF ENGINEERINGT. R.V. Praymona Gowda Principal. Bengaluru - 560068. The Oxford College of Englosering Bommanahalli, Hosur Road External Viva Benaeluru-560 068 Signature with Date

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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 "Result Analysis and Faculty Feedback with Login and Evaluation" has been carried out by Meghana G M (10X14CS047), Poorna C (10X14CS060), Rahul R Jain (10X14CS068), Naveena P(10X15CS412), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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. Chandanita

Project Guide

Dr. R.I Anandh

Dr.R.V.Praveena Gowda

Vice Principal and H.O.D Dr. RV Praveena Gowda

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Name of the Examiners 1. <u>Br</u> R J Anandhi

2. SHUBHA RAJ KB.

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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 "Real-time Satellite Configuration and Monitoring" has been carried out by R Arvind (1OX14CS067), Rakshith Patil (1OX14CS069), S Deepak Raam (1OX14CS074), Sakir Beg (1OX14CS076), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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.

Ms. Koyel Sinha Chowdhury Assistant Professor

)

Dr. R. J. Anandhi

Dr. R.V. Pravçena Gowda

Dr. R J Anandhi Vice Ryincinalissi H.O.D Principal, TOCE Professor & Head of Department/CSE THE OXFORD COLLEGE OF ENGINEERIND T. RV Praveena Gowda Bengalury 560068. External Viva

The Oxford Collage of Engineerin Bommanshall, Hotor Rosd Benaciuru-500 068

Signature with Date

Name of the Examiners 1. <u>Pr R. J Anord</u>bri 2. <u>SHUBITA RAJ</u> KB

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "IOT Based Multi-Function War Assistance by PRIYANKA GUPTA (1OX14CS064), Robot" carried RAMYA B out NIKHETHA KS (10X14CS104), (1OX14CS070), VAISHNAVI PATIL bonafide students of The Oxford College of Engineering, (1OX15CS413), Bengaluru in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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.

Prof. Shobha T Project Guide

Dr. R.J.

Vice Principat and H.O.D Professor & Head of Department/CSE THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068.

External Viva

. R.V Praveena Gowda

Principal, TOCE Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners 1. <u>br R J Anandhi</u> 2.<u>SHUBHA</u> RAJKB

Signature with Date

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



CERTIFICATE

Certified that the project entitled "Cloud Based Android App Alerts for Toxic Gas Presence for Asthma Patients" carried out by Sowmya K (1OX14CS089), Thejaswini M (1OX14CS101) and Vel Kumar P (1OX14CS105), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. This is to certify 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 project work.

)

Ms. Gausia Thahniyath Associate Professor

Dr. R Vice PrincipaP& IP.O.D External Viva

Dr. R. VPraveena Gowda Principal, TOCE Professor & Head of Department/CSDr. RV Prayeena Gowda Principal The Oxford College of Engineerin Bommanahalli, Hosur Road Bengaluru - 560 068 Signature with Date

Name of the Examiners Dr R. J. Anandin 1. 2. SHUBHA RAT 14B

21100

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



CERTIFICATE

Certified that the project entitled "Placement and Analysis Website" has been carried out by RIA V JOHN (10X14CS072), SIJO JOBY (10X14CS086), TITUS P CHERIAN (10X14CS103), ZOHRA SHARIEFF (10X14CS112) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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 project work.

Ms.Árchana R Project Guide

Dr.R.J. Anandhi Dr. R.J Anandhi Vice Principal and H.O.D Professor & Head of Department/CSE THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068. <u>External Viva</u>

Dr. R. Praveen Gowda

Principal, TOCE Dr. RV Primena Gowda File and The Oxford Company Engineering Bommana and the contract Road Benderuru-bob 008 Signature with Date

18

Name of the Examiners

1. Dr. R. J. Anandh

2. SHUBHA RAT KB



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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 "Visible Light Communication using Li-Fi" has been carried out by Pushpa Devi (1OX13CS410), Tejas G Sunkad (1OX14CS100), Chandan V Patil (10X15CS403), Lakshmi G (10X15CS407) bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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.

102 Jattle.

Bommanahalli, Hosur Road Bengaluru-560 068

Signature with Date

Ms. Aishwarya N Vice Principal Assistant Professor THE OXFORD COLLEGE OF ENGINEERING Finding Percelute Scooce The Oxford College of Engineering

External Viva

Dr. R.J. Anandhi Dr. R. V. Praveena Gowda Principal, TOCE. Professor & Head of Department/CSE

Name of the Examiners

I SHUBHA RAT KB

2. Dr R J Amandhi

14/06/18

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



CERTIFICATE

Certified that the Project work entitled "A General-Purpose Architecture for Replicated Meta Data Services in Distributed File Systems" submitted by BASAPPA DODDAMANI (10X16SCS01), a bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Master of technology in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2017-18. It is certified that all the correction/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.

Ms. Seema Patil, **Project Guide**

Dr. R J Anandhi, Prof. & HOD Dr. R J Anandhi

Vice Principal Professor & Head of Department/CSE The Oxford College of Engineering THE OXFORD COLLEGE OF ENGINEERING Name of the Examiners Bengaluru - 560068

r.'R V Praveena Gowda, **Principal**, TOCE Dr. RV Praveena Gowda Principal

Bormanahalli, Hoays Road Bendaluru - 560 068

1. Ruma Panda 2. Seema Pahi

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(Approved by AICTE, New Delhi, Accredited by NBA, NAAC, New Delhi & Affiliated toVTU, Belagavi)



CERTIFICATE

Certified that the Project work entitled "Efficient Searching Technique for MapReduce Self-Tuning in Hadoop" submitted by DEEPTHI A (1OX16SCS02), a bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Master of technology in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2017-18. It is certified that all the correction/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.

Prof. Sowmya H K, **Project Guide**

Dr. R J Anandhi, Prof. & HOD Dr. R J Anandhi Vice Principal

THE OXFORD COLLEGE OF ENGINEERING

Bengaluru - 560068,

r. R V Praveena Gowda, Principal, TOCE Dr. RV Praveena Gowda

Professor & Head of Department/CSE The Oxford College of Engineering Principal Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners

Signature with Date

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bangalore - 560 068 (Approved by AICTE, New Delhi, Accredited by NBA, NAAC, New Delhi & Affiliated to VTU, Belagavi)



CERTIFICATE

Certified that the Project work entitled "Health Prediction of Cash Crops-A Data Mining Based Approach for Aiding Agriculturists" submitted by DIVYA R (1OX16SCS03), a bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Master of technology in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2017-18. It is certified that all the correction/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.

Prof. Senthil Kumar, **Project Guide**

Dr. R J Anandhi, Prof. & HOD

Dr. R J Anandhl Vice Principal Bengaluru - 5600:-8.

. R V Praveena Gowda, Principal, TØCE

Dr. RV Praveena Gowda Principal Professor & Head of Department/CSEhe Oxford College of Engineering THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road Bengaluru-560 068

Signature with Date

18 018

Name of the Examiners

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



CERTIFICATE

Certified that the Project work entitled "Three Dimensional Security for Hadoop Frameworks" submitted by KARTHIKA R P (10X16SCS04), a bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Master of technology in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2017-18. It is certified that all the correction/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.

Ms.Shobha T. **Project Guide**

Dr. R J Anandhi, Prof. & HOD Dr. R J Anandhi Vice Principal

THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068.

Dr. R V Praveena Gowda, **Principal**, TOCE

Dr. RV Praveena Gowda Principal Professor & Head of Department/CSEThe Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru e With Date

Name of the Examiners

1. JAYASHREE. L.K 2. Shobha. T.

Sholshe .T 12/6/2018

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bangalore – 560 068 (Approved by AICTE, New Delhi, Accredited by NBA, NAAC, New Delhi & Affiliated toVTU, Belagavi)



CERTIFICATE

Certified that the Project work entitled "IIDPS (Internal Intrusion Detection and Protection System) By Using Profiling" submitted by SARWATH UNNISA (1OX16SCS06), a bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Master of technology in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2017-18. It is certified that all the correction/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.

Prof. Gousia Thahniyath, **Project** Guide

Dr. R J Anandhi, Prof. & HOD Dr. R J Anandhi Vice Principal Professor & Head of Department/CSE THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068.

Name of the Examiners

Loganathan R.

raveena Gowda, RV incipal. TOCE Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru - 560 068

Signature with Date

(Approved by AICTE, New Delhi, Accredited by NBA, NAAC, New Delhi & Affiliated toVTU, Belagavi)



CERTIFICATE

Certified that the Project work entitled "Creating SAS Transport X files from various Data Sources" submitted by V ASHWINI (10X16SCS07), a bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Master of technology in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2017-18. It is certified that all the correction/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.

Internal Guide

Dr. R J Anandhi Vice Principal BName of the Examiners

Dr. R J Anandhi.

Prof. & HOD

Dr. R J Anandhi Vice Principal FORD COLLEGE OF ENGINEERING THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068.

R V Prayeena Gowda, Principal, TOCE Dr. RV Praveena Gowda Principal

sor & Head of Department/CSE Professor & Head of Department/CSE Pompanetalli Heave Dead Bommanahalli, Hosur Road Signature with Date 68

1. ASHA RANI BORAH 2. ANONDHI. R.J.

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MAY 07, 2018

CERTIFICATE

This is to certify that the project work entitled "Creating SAS Transport X files from various Data Sources" was carried out by Mr./Ms. V. Ashwini, USN 10X16SCS07, a bonafied student of The Oxford College of Engineering, in partial fulfillment for the award of Master of Technology in Computer Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year December 2017 - April 2018. It is certified that, she has completed the project satisfactorily.

for, Quartesian Clinical Research Pvt. Ltd

N-Alisharoth

Nishanth N Associate Director, Statistical Programming

padauel Bangalore e'S Priyadarshini R Manager- Human Resources

#23 & 24, AMR Tech Park 1A, 2nd floor, Hosur Main Road, Bangalore - 560 068 PH: +91.80.46471830 FAX: +91.80.46471850



Anspro Software Solutions

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Basappa Doddamani** bearing USN No: 10X16SCS01, a student of Master of Technology in Computer Science and Engineering, The Oxford College of Engineering was working with us as an intern. The internship has started on 9th of August, 2017 for a period of sixteen weeks.

During the tenure of his stay, he conducted himself well and was found to be very sincere.

He worked on the project "Click Smart".



#7, 100ft Ring road, BTM 2nd Stage, Near Jayadeva Signal, Bengalore-560076, Karnataka

Ph: 080-64350727, Mob : 8095286693/7204005296 Email:info@ansprosoft.com

www.ansprosoft.com



Anspro Software Solutions

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Deepthi A bearing USN No: 10X16SCS02, a student of Master of Technology in Computer Science and Engineering, The Oxford College of Engineering was working with us as an intern. The internship has started on 9th of August, 2017 for a period of sixteen weeks.

During the tenure of her stay, she conducted herself well and was found to be very sincere.

She worked on the project "Video Management and conversion of audio to text".



#7, 100ft Ring road, BTM 2nd Stage, Near Jayadeva Signal, Bengalore-560076, Karnataka

Ph: 080-64350727, Mob : 8095286693/7204005296 Email:info@ansprotech.com

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Divya R bearing USN No: 10X16SCS03, a student of Master of Technology in Computer Science and Engineering, The Oxford College of Engineering was working with us as an intern. The internship has started on 9th of August, 2017 for a period of sixteen weeks.

During the tenure of her stay, she conducted herself well and was found to be very sincere.

She worked on the project "Automated Software Project Estimator and Resource Planning Tool".



#7, 100ft Ring road, BTM 2nd Stage, Near Jayadeva Signal, Bangalore-S60076, Karnataka

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www.ansprosoft.com



Anspro Software Solutions

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Karthika RP bearing USN No: 10X16SCS04, a student of Master of Technology in Computer Science and Engineering, The Oxford College of Engineering was working with us as an intern. The internship has started on 9th of August, 2017 for a period of sixteen weeks.

During the tenure of his stay, he conducted himself well and was found to be very sincere.

He worked on the project "Model Based Software Project Estimator and Resource Planning Tool".



#7, 100ft Ring road, BTM 2nd Stage, Near Jayadeva Signal, Bengalore-560076, Karnataka

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Anspro Software Solutions

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Sarwath Unnisa bearing USN No: 10X16SCS06, a student of Master of Technology in Computer Science and Engineering, The Oxford College of Engineering was working with us as an intern. The internship has started on 9th of August, 2017 for a period of sixteen weeks.

During the tenure of her stay, she conducted herself well and was found to be very sincere.

She worked on the project "Conversion of Video to Audio and Text Summarization".



#7, 100ft Ring road, BTM 2nd Stage, Near Jayadeva Signal, Bengalore-560076, Karnataka

Ph: 080-64350727, Mob : 8095286693/7204005296 Email:info@ansprotech.com

www.ansprosoft.com



November 27, 2017

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. V. Ashwini bearing USN No. 10X16SCS07, a student of Master of Technology in Computer Science and Engineering, from The Oxford College of Engineering was working with us as an Intern. The Internship has started in September 2017 for a period of Twelve weeks.

During the tenure of her stay, she conducted herself well and was found to be sincere.

She worked on the project "Creating SAS Transport X files from various Data Sources"

Best Regards,

cal Res Bangalore iyadarshini Ramaswan Manager -Human Resource Quartesian |Bangalore

Registered Office: #23 & 24, AMR Tech Park 1A, 2nd floor, Hosur Main Road, Bangalore - 560 068 Ph: +91.80.46471830

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

This is to certify that the project work entitled "Secure cloud storage and keyword based retrieval system in cloud computing using attribute based proxy re-encryption" is a bonafied work carried out by Hisham(1OX14IS039), Prathiksha A Shetty(1OX14IS069), Pravalika H(1OX14IS070) and Sahana M(1OX14IS078), students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering /Bachelor of Technology in INFORMATION SCIENCE AND ENGINEERING of the Visvesvaraya Technological University, Belagavi, during the year 2017-2018. 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.

Asst. Professor, Dept. of ISE

2.

Dr. R. V Vraveena Gowda

IN BURYARA MATAPI PhD. FIETE, SMCSI, MPMI, M. TECH (IIT-D) PROFESSOR & ROOTAFIERMA HOCTOGENCE AND ENGINEERING Dr. RV Praveena Gowda -THE OXFORD COLLEGE OF ENGINEERINTHe Oxford College of Engineering BommanahalDeptuoiALS Road, Bangalore-560068.

Bommanahalli, Hosur Road Bengaluru-560 068

Principal, TOCE

External Viva

Name of the examiners

Signature with date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Belagavi, Karnataka.



A Project Report on

"MRCP-RMD: A TECHNIQUE FOR RESOURCE ALLOCATION AND SCHEDULING OF MAPREDUCE JOBS WITH DEADLINES"

Submitted in the partial fulfilment of the requirements for the award of the Degree of

Bachelor of Engineering in

Information Science and Engineering

Submitted by

SHASHANK G HEGDE SRINIDHI LN VINAYAK SURESH PAI VINITHA S BHAT	[1OX14IS086] [1OX14IS093] [1OX14IS107] [1OX14IS108]
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Under the guidance of

Mrs. S. VISALINI

Asst. prof., Department of Information Science and Engineering, TOCE



Department of Information Science and Engineering THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Bangalore 560068

2017-2018

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

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Retinal Lesions Detection in Fundus Images for Diabetic Retinopathy Screening"carried out by RASHMI V [10X14IS074], SANJANA HUNASHIKATTI [10X14IS082], TEJADEEPA K A [10X14IS100], YASHASWINI D M [1OX14IS111] bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfillment for the award of the Degree of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Mrs. R

Assistant Professor

DI DI ANARAMAIAH Dr.PhaveenaGowda SCIENCE AND ENGINEERING DY Braveena Gowda THE OXI Bommanahalli, Hosur Main Road, Bangalore-560068 xford College of Englacering Bommanahalli, Hosur Road Bendaluru-560 068

External Viva

Signature with Date

Name of the Examiners

1. G. Sivagama Sundar" (Br) 2. S. Vusalini

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

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "IOT Based Fine Dass Morntoning Alert System" carried out by NIKHITHA [IOX14IS060], SUPRAIA SRINIVAS [IOX14IS065], SUSHMA SL [IOX14IS098], TEIASWINI M [IOX14IS101] bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of the Degree of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is ertified 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

External Viva

prescribed for the said degree.

wda D.V Mr. Chapmappa G

Assistant Professor

Name of the Examiners

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Dr. RV "

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Dr.Praverena Grucia

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BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

This is to certify that the project work entitled "Detecting Spam Reviews on Online Social Media through Network Based Framework - NETSPAM" carried out by Nikhil H.M(10X14IS059), Pooia Deshpande(1OX14IS065), Pratima Kulkarni (1OX14IS114) and Mir Mustafa Ali (1OX13IS042), bonafied students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in INFORMATION SCIENCE AND ENGINEERING of the Visvesvaraya Technological University, Belagavi, during the year 2017-2018. 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.

Ms P Koki

Asst. Professor, **Dept. of ISE**

Dr. D. Jayaramaiah Prof & Head,

Dept. of ISE

210 . Praveena Gowda

Principal, TOCE Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahaili, Hosur Road Bengaluru-560 068

External Viva Name of the examiners nodha.b. 1. 2. KARTHEIL.S.

Signature with date

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "CLOAK: A STREAM CIPHER BASED ENCRYPTION PROTOCOL BASED ON MOBILE CLOUD COMPUTING" carried out by Shalini Priya (10X14IS084), Sheikh Sana Seher (10X14IS087), Shejal P (10X14IS088) and Sindhu Hurkadli (10X14IS090), bonafied students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering /Bachelor of Technology in INFORMATION SCIENCE AND ENGINEERING of the Visvesvaraya Technological University, Belagavi, during the year 2017-2018. 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.

ndu K. S

Asst. Professor

1. 2.

Dr. D. Jayaramaiah

Dr. D JAYARAMAIAH Profit Self Head C Dept H of ISE (115-0) PROFESSOR & HOD INFORMATION CONTRACTOR THE OXFC

Name of the examiners

V. Praveena Gowda Dr. 1 Dr. RV Praveena Gowda Principal, TOCE

EXTERNAL VIVA Bommanahalli, Hosur Road iners Signature with date

G. Sivagama Sundasilles

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled **"SBPG:SECURE BETTER PORTABLE GRAPHICS FOR TRUSTWORTHY MEDIA COMMUNICATION THROUGH IOT**" carried out byKaran K(10X14IS042),Parth Patel(10X14IS064), Shreyas S(10X14IS089) andVemasani Sai Vijay (10X14IS105), bonafied students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering /Bachelor of Technology in INFORMATION SCIENCE AND ENGINEERING of the Visvesvaraya Technological University, Belagavi, during the year 2017-2018. 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.

Asst. Professor

Dr. D. Jayaramaiah

Dr. D JAYARAMAIAH Prod. FASTI Lunzel, Huph. TCHSIED) PROFESSOR & HOD INFORMATION SCIENCE AND ENGINEERING THE OXFORD COLLEXTERNALOIVE RING Bommanatalli, Hosur Main Road, Bangatore 560065. Dr. R.V. Praveena Gowda Dr. R.V. Praveena Gowda Principal, Topar

Bommanahalli, Hosur Road Bengaluru - 560 068

Name of the examiners

Signature with date

HOSUR ROAD, BOMMANHALLI, BENGALURU-560068 (Affiliated to Visvesvaraya Technological University, Belagavi) Department of Information Science and Engineering



Certified that the Project work entitled "An Intelligent Smartphone Based Approach Using" Computing And Risk-Free Driving' carried out by Lakshmi L Cloud IoT For Menda[10X14IS044], Navya V [10X14IS056], Fiona Jothi Sylvester[10X14IS031], Latha Shree N[10X14IS046] bonafide students of The Oxford College Of Engineering, Bengaluru in fulfillment for the award of the degree of Bachelor of Engineering in Information Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all the corrections indicated for the 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 Bachelor of Engineering.

Mrs. S Kalaiselvi Assistant Professor

Dr. Praveena Gowda r. DJ RYJAYRAMAANA H AND ENGINEERING T. R. V & Principal Gowda MPMI, M. TECH (IIT-D) PhD, FIETR DESSOR & HOD INFORMATION SC Principal Manchati, Hosur Main Road, Bengalore-5600689 Oxford College of Engineering HE OXFORD COLLEGE OF ENGINEERING

Bengalury - 560 068 Signature with date

Name of the Examiner

1. VProdha K 2. HARTHEK. S.

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "DYNAMIC TRACKING OF TASK SCHEDULE" carried out by Shalini Das (10X14IS083), Swathi G.Shet (10X14IS099), Yamini R (10X14IS110), bonafied students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering /Bachelor of Technology in INFORMATION SCIENCE AND ENGINEERING of the Visvesvaraya Technological University, Belagavi, during the year 2017-2018. 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.

V Praveena Gowda Prof Dr.D.J. Byar Brain A IAH Dr. R.

Mrs. Keerthi Halaharvi

PhD, FIETE, SMCSI, MPMI, M. TECH (IIT-D) PECFESSOR & HOD INFORMATION SCHENCE AND ENGINEERINP RINCIPAL TOCE OWDA Asst. Professor, Dept. of ISETHE OXES OF ENGINEERING Principal Semmanahalli, Hosur Main Road, Bangalore-560068. The Oxford College of Engineering

Name of the Examiners G. Spragans durdere (Ext)

Signature with Dancaluru-560 068

Bommanahaili, Hosur Road

THE OXFORD COLLEGE OF ENGINEERING BANGALORE (Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



This is to certify that the project entitled "Efficient and Effective Global Context Verification For Image Copy Detection" is a work carried out by Vaibhav Bharadwaj IOX14IS102), Rajesh Ganapati Bhat (IOX14IS073) and Waseem Akram(IOX14IS109) Onafide students of The Oxford College of Engineering in partial fulfillment for the award Bonafide students of Engineering in Information Science and Engineering of Visvesvaraya of Bachelor of Engineering in Information Science and Engineering of Visvesvaraya informations/suggestions indicated for Internal Assessment have been incorporated in the report icorections/suggestions indicated for Internal Assessment have been approved as it satisfies the icodemic requirements in respect of work prescribed for the said Degree.

13/06/18

Mrs.Riya Sanjesh Assistant Professor

veen Gowda

GINEERING Dr. RV Pravocial Gowda Dr. D DA. YA Bayhtanalah Bommanshalli, Hosur Main Road, Bangalore-560068 the Oxford College of Engineering External Viva PROFESSOR & HOD INFORMATION SCIEN

Name of examiner . Gr. Sivagama Sundar LEM . S. Vijalin

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Utilize Big Data platform to maintain and use Healthcare Information through Hadoop and Elastic Search" carried out by Akarsh S. (IOX14IS004), Ganesh Babu T. A. (IOX14IS032), Manish Maan (IOX14IS050) and Sharath P. (IOX14IS085) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering/Bachelor of Technology in INFORMATION SCIENCE AND ENGINEERING of the Visvesvaraya Technological University, Belagavi, during the year 2017-2018. 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.

Pravegua Gowda and themes abr. RV Principal, TOCE Ms. Radha D. N. NGINEERING Asst. Prof., Dept. of ISE seione to the Oxford College of Engineering PROPESSOR & HE OXFORD (Signati Rememorate III, Hosur Road Unanolii, Hosp Benualury - 560 008 External Viva Name of the examiners Vinodha 1. BARTHER. 2.

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "A GESTURE BASED MODEL TO ASSIST HANDICAP IN SEARCH OF JOBS" carried out by Akshay R (10X14IS006), Gudekota Adithya (1OX14IS035), Karthik K V (1OX14IS043) and Shivshankar Kumar (1OX12IS101), bonafied students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering /Bachelor of Technology in INFORMATION SCIENCE AND ENGINEERING of the Visvesvaraya Technological University, Belagavi, during the year 2017-2018. 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 academicrequirements in respect of Project work prescribed for the said Degree.

K. Vinodha

Asst. Professor, Dept. of ISE

Prof. Dr. D. Jayaramaiah

Dr. R. V. Pravena Gowda

DIAYARAMAIAH Phot HERE SMERT MORI SECH (IIT-0) PROFESSOR & HOD INFORMATION SCIENCE AND ENGINEERING RUPPAveena Gowda THE OXFORD COLLEGE OF ENGINEERING Bermanahalli, Hosur Main Road, Bangalore School Stord College of Engineering Bermanahalli, External Viva Bommanahalli, Hosur Bengaluru-560 068

Signature with date

13/1/18

12 21/3/21 adupants

Name of the Examiners

Vinodha.k 1. 2. KARTHIK, S

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Design and Implementation of Large Scale Encryption In Hadoop Environment" carried out by Meghana B.N(1OX12IS020), Bindhu.N(1OX12IS026), Ranjitha.S(1OX13IS067) and Shanaz P.S (1OX13IS082), bonafied students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering /Bachelor of Technology in INFORMATION SCIENCE AND ENGINEERING of the Visvesvaraya Technological University, Belagavi, during the year 2017-2018. 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.

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2.

Prof. Dr. D. Jayaramaiah HOD, Dept. of ISE

Dr.

Asst. Professor, Dept. of ISE

Name of the examiners

External Viva

eena Gowda

Dr. RV Prakful a Gewda The Oxford College of Engineering Bommanahaili, Hosur Road Signature with ast 668

2. - 212 HI

BOMMANAHALLI, HOSUR ROAD, BANGALORE – 560068 (Affiliated to VTU and approved by AICTE)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the Project work entitled "MATLAB BASED ELECTRIC APPLIANCE CONTROL USING TIMBRE BASED ALGORITHM" carried by Archana v (10X14EC010), Devi V (10X14EC023), Balaji Ganesh (10X14EC015) and Chowda Reddy KS (10X14EC020), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment of requirement for the award of BACHELOR OF ENGINEERING (B.E) in ELECTRONICS AND COMMUNICATION ENGINEERING of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2017-18. 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 academics requirements in respect of project work prescribed for the said degree.

Guide JAYARA.

Asst. professor

Dept. of ECE

Dr. MANJU DEVI

The Oxford College of Engineering

HOD

Dept. of ECE, TOCE Professor & HOD of E&C Engineering

Name of the Examiners Bommanahalli, Bangatore - 560 068.

Examiner 1: Dr. plante De

Principa Dr. R V PRAVEENA GOWDA

TOPE RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru - 560 068

Signature with date 21611

Examiner 2: M

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 "A Smart Tracking Garbage Vehicle with Authentic Login" carried out by Divyashree V(10X14EC024), H D Yashaswini(10X14EC027), Sumanth D V(10X14EC090), Vinod Kumar H G(10X14EC104), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2016-17. 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 in respect of Project work prescribed for the Degree.

N. W 06118 Guide

Mr. JAGADEESHWAR REDDY Asst. Professor

HOD Dr. MANJO DEVI

Dept. of ECE

TOCE

Professor & HOOØEE&C Engineeringr. RV Proveens Gowda The Oxford College of Engineering Oxford College of Engineering

Bommanahalli, Bangalore - 560 068. Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners

Examiner 1. 14, PAPPA

Examiner 2. Dr. Manf Den

Signature with Date

er Ap/6/18

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 Seminar work entitled "Women Security Assistance System with GPS Tracking and Messaging System" is a bonafide work carried out by SWETHA S (IOX14EC091), THEJASWINI D (IOX14EC421), AZAR SIDDIQUI (IOX14EC402) and SHREEKANT (IOX13EC102) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the year FEB-MAY2018. 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 required for the above said degree.

GUIDE

NSU Mr. SRIDHAR N Asst. prof. Dept. of ECE

HOD Engineering The Oxford College of Engineering Bommanahalli, Bangalore - 560 068.

Dr. R.V. PRAVEENA GOWDA Dr. RV Praveena Gowda

The Oxford College of Engineering Bommananana, Honor Road Baryzonaria-Sell (vi.8)

NAVEEN KUMAR G.N. Soungag

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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 "MOVABLE ROAD DIVIDER FOR VEHICULAR TRAFFIC CONTROL WITH MONITORING OVER INTERNET OF THINGS" carried out by PRUTHVI H K (10X14EC066), PRAMOD Y K (10X14EC060), VEERESHA P M (10X14EC101), PRATHVIRAJ SHETTY (10X14EC062), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2017-18. 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 in respect of Project work prescribed for the Degree.

Guide Mr. SRIDHAR N Asst. Professor, Dept. of ECE

Dr. MANJU DEVI ProfessD 2100For E&C Engineering The Oxford College of Engineering Bommanahalli, Bangalore - 560 068.

Principal Dr. PRAVEENA GOWDA

Dr. KV TOCEena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners

Examiner 1. De Ha-Examiner 2. M. PAPPA

Signature with Date

Mapajapa

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 "IMPLEMENTATION OF MODEL RADAR TARGET DIRECTION IDENTIFIER WITH REMOTE MONITORING OVER INTERNET OF THINGS (IOT) PLATFORM" carried out by RAJENDRA (IOX14EC069), SACHIN K JOY (IOX14EC075), SARFARAZ MONSURI (IOX14EC076), HITESH KUMAR DHULL (IOX13EC035), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2017-18. 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 in respect of Project work prescribed for the Degree.

Guide Mr. BHARGAVA RAMA GOWD Asst. Professor, Dept. of ECE

1 attor Dr. MANJE DEVI Dept. of ECE

Dept. of ECE TOCE Professor & HOD of OETEEngineering The Oxford College of Engineering Bommanahalli, Bangalore - 560 068. Bommanahalli, Hosur Road Bengaluru - 560 068

Dr. PR

Name of the Examiners

Examiner 1. Dr. Mart De

Examiner 2.

Bendaluru-560 068 Signature with Date

incipal

EENA GOWDA

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 "SMART VEHICLE USING MICROPROCESSOR" is a bonafide work carried out by Ms. THANUSHREE G. (1OX14EC094) , Ms. PRATHYUSHA R J(1OX14EC063) , Ms. SHWETHA J (IOX14EC081), Mr. PRAVEEN KUMAR S (IOX14EC064) in partial fulfillment for the ELECTRONICS AND of BACHELOR OF ENGINEERING in award COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAUM during the year FEB-MAY 2018. 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 required for the above said degree.

GUIDE

Mr/Ms.SONIYA JAMES Asst. Professor, Dept. of ECE

lar Dr. MANIU DEVI

PROFESSOR

Dr. R.V. PRAVEENA GOWDA TOCE Bengaluru.

Professor & HOD of E&C Engineering Professor & HOD of E&C Engineering PTR V Praveena Gowda The Oxford College of Engineering Principal Bommanahalli, Bangatore - 560 669 xford College of Engineering Bommanahalli, Hosur Road Bengaluru - 560 068

Name of the Examiners 1. NAVEEN CUMBR G.M.

2. Damya

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Department of Electronics & Communication Engineering



CERTIFICATE

Certified that the project work entitled "VEHICLE WITH SMART ASSISTANCE SYSTEM" carried out by NAME: VARUN S USN: 10X13EC096, NAME: VISHNU R USN: 10X13EC099, NAME: ARUN KUMAR BARIK USN: 10X11EC007, NAME: PRITAM KUMAR USN: 10X12EC069, bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2016-17. 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 in respect of Project work prescribed for the Degree.

Guide N.W Guide N.W Mrs.MEGHA MS 13 06118 Asst. Professor Dept. of ECE Profe

TOCE

Dr. MANJE DEVI Dr. MANJE DEVI Professor DepOrtect The Oxford CEOCE of Engineering Dr. R VGOXDAna Gowda The Oxford CEOCE of Engineering Dr. R VGOXDAna Gowda FOCEpal Pommanahalli, Hoser Road

Name of the Examiners

Signature with date

Examiner 1. NOVEBN KUMBT G.N. Examiner 2. Sounga g

-G.N. Nallen Human Sormyag 19/06/18

Bengaluru-560 068

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 "SMART VEHICLE USING MICROPROCESSOR" is a bonafide work carried out by Ms. THANUSHREE G. (1OX14EC094) , Ms. PRATHYUSHA R J(1OX14EC063) , Ms. SHWETHA J (IOX14EC081), Mr. PRAVEEN KUMAR S (IOX14EC064) in partial fulfillment for the of BACHELOR OF ENGINEERING ELECTRONICS AND in award COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAUM during the year FEB-MAY 2018. 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 required for the above said degree.

N. W 1106118

Mr/Ms.SONIYA JAMES Asst. Professor, Dept. of ECE

HOD DEVI Dr. MANIU PROFESSOR

INCIPAL

Dr. R.V. PRAVEENA GOWDA **TOCE Bengaluru.**

Professor & HOD of E&C Engineering. R V Praveena Gowaa The Oxford College of Engineering Oxford College of Engineering Bommanahalli, Bangalore - 560 068Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiner NAVEEN LOOMAR G.N.

Solomya &

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 "SMART GLOVES" carried out by JOYSON P S USN: 10X14EC031, ARUN P KUSTAGI USN: 10X14EC013, bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2017-18. 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 in respect of Project work prescribed for the Degree.

VARSHA PARIHAR Asst. Professor

Dr. MANJU DEVI Dept. of ECE TOCE

Principa Dr. PRAVEENA GOWDA TOCE

Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners

Examiner 1.

Examiner 2.

Pappa 1 De

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 "IOT BASED SMART WASTE MANAGEMENT MONITORING SYSTEM USING INTELLIGEMENT BINS", carried out by POOJASHREE B.C (IOX14EC058), VEDAVATHI S.U (IOX14EC099), ABHIJITH S.N (IOX15EC400), SOMASHEKAR S (IOX15EC420), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2017-18. 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 in respect of project work prescribed for our degree.

Project Guide

rincipal HOD Dr. MANJU DEVI Dr. PRAVEENA GOWDA ProfessortaeptOB ECE&C Engineering Dr. R V Praveena Gowda The Oxford COEge of Engineering Principal

Bommanahalli, Bangalore - 56010680xford College of Engineering

Mrs. CHANDRAKALA S Dept. of ECE TOCE

Name of the Examiners

Examiner 1: NAVEEN LUMAR G.N. -Examiner 2: Source gag

Sounga g 19/06/18

Bommanahalli, Hosur Road Signature, with Date 68

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 "MACHINE MONITORING ON CLOUD USING RASPBERRY PI AND INTERNET OF THINGS" carried out by CHANDRA SHEKHAR V(10X14EC017), DEEPA S(10X14EC022), ARPITHA TO(10X14EC012), ANVESHANA M(10X14EC009), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2017-18. 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 in respect of Project work prescribed for the Degree.



Mrs. DHANYA E Asst. Professor Dept. Of ECE Dr. MANJU DEVI Dept. of ECE Professor & HDOCEE&C Engineering The Oxford College of Engineering Bommanahalli, Bangalore - 560 068.

HOD

rincipal

Dr. PRAVEENA GOWDA Dr. RV Prtocena Gowda Principsi The Oxford College of Engineering Bommanahalii, Hosur Road Bengaluru-560 068

Name of the Examiners Examiner 1. Dr. plan Den Examiner 2.

Signature with Date

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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 "Design of Photonic Based Sensor For Analysis of Pesticide Residues in Soft Drinks" carried out by Manju k (1OX14EC043), Pasala Swetha (1OX14EC056), Solanki Jinal Jayanthilal (1OX14EC084), Suresh L (1OX15EC410), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2017-18. 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 in respect of Project work prescribed for the Degree.

Guide

Mrs.SAJITHRA VARUN S Asst.Professor, TOCE Dr. MANJU DE I Dr. PRAVEENA GOWDA Dept of ECF Eac Engineering Dept, of ECE The Oxford College of Engineering Dr. RV Foregreena Gowda Principal Bommanahalli, Bangalore-560 06the Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiner

Examiner 1. Faculty Name M PAPPA

Examiner 2. Faculty Name Dr

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 "DESIGNING OF LAB-ON-CHIP IN THE DETECTION OF VARIOUS COMPONENTS IN BLOOD FOR A SUCCESSFUL BLOOD TRANSFUSION USING PHOTONIC CRYSTAL" carried out by VENKATESH D S (10X14EC102), VIKAS S (10X14EC103), YADHU KRISHNA M (10X14EC105), SADHASHIVA S (10X13EC076), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2017-18. 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 in respect of project work prescribed for our degree.

HOD

Project Guide

Dept. of ECE

TOCE

Dr. MANJU DEVI Dr. PRAVEENA GOWDA Professor & Holptob Feet Engineering Dr. R V Torceveena Gowda The Oxford College of Engineering Principal Bommanahalli, Bangalore - 560 068 The Oxford College of Engineering Bommanahalli, Hosur Road

Name of the Examiners

Examiner 1: NAVEEN LUMAR G.A.

Junya \$ 13/06/14

Signature with Date 068

rincipal

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 "IMPLEMENTATION OF MODEL RADAR TARGET DIRECTION IDENTIFIER WITH REMOTE MONITORING OVER INTERNET OF THINGS (IOT) PLATFORM" carried out by RAJENDRA (10X14EC069), SACHIN K JOY (10X14EC075), SARFARAZ MONSURI (10X14EC076), HITESH KUMAR DHULL (10X13EC035), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2017-18. 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 in respect of Project work prescribed for the Degree.

LADD rincina Guide Dr. MANJU/DEVI Dr. PRAVEENA GOWDA Mr. BHARGAVA RAMA GOWD Dept. of ECE Dr. RV Praveena Gowda Professor & HOD of EQCEngineering Principal The Oxford College of Engineering Bommannhaill, Hosur Road Bommannhaill, Hosur Road Asst. Professor. Dept. of ECE Name of the Examiners Signature with Date 12/6/18 Examiner 1. Dr. blant De Examiner 2. M. PAPPA Scanned with CamScanner

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 "RF BASED FARMER FRIENDLY AGRICULTURAL ROBOT WITH MOTORIZED SHOVE CONTROL SYSTEM WITH AUTOMATIC SPEED DISPENSIVE SYSTEM" carried out by RASHMI V USN :10X14EC071 SHOBANA M USN :10X14EC080 ARPITHA MN USN :10X15EC404 MANJU S USN :10X15EC413 bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2016-17. 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 in respect of Project work prescribed for the Degree.

N. 4 09/06/18

Asst Professor, ECE Dept. TOCE

Dept. Dept.of ECE Professor & HOD of Eac Engineering The Oxford College of Engineering

The Oxford College of Engineering Bommanahalli, Bangalore - 560 068. Principal Dr. PRAVEENA GOWDA Dr. R VTOCE Principal The Oxford Collige of Engineering Bommanahalit, Hosur Road Bengalury - 560 058

Signature with Date

Name of the Examiners

Examiner 1. Examiner 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 "RF BASED FARMER FRIENDLY AGRICULTURAL ROBOT WITH MOTORIZED SHOVE CONTROL SYSTEM WITH AUTOMATIC SPEED DISPENSIVE SYSTEM" carried out by RASHMI V USN :10X14EC071 SHOBANA M USN :10X14EC080 ARPITHA MN USN :10X15EC404 MANJU S USN :10X15EC413 bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2016-17. 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 in respect of Project work prescribed for the Degree.

N.W. oglobile

Dr. MANJU DEMI

fol Guide Mr. Manjunath

Asst Professor, ECE Dept. Professor & HOOE/ E&C Engineering The Oxford College of Engineering The Oxford College of Engineering Bommanahalli, Bangalore - 560 068.

Principal Dr. PRAVEENA GOWDA Dr. RV Praveena Gowda Principal

Bommanahalli, Hosur Road Bendaluru-560 068

Name of the Examiners

Examiner 1. Examiner 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 "Patient Health Monitoring System Using IoT" carried out by ROHITH C S NAIR (10X14EC072), RUPESH WAMANRAO PATIL (10X14EC073), SYED ARAFAT AHMED (10X14EC092), VARUN N BHOMBORE (1OX14EC098), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING in ELECTRONICS VISVESVARAYA ENGINEERING of the COMMUNICATION AND TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2017-18. 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 in respect of Project work prescribed for the Degree.

P. Ruelwarey Guide

incipa Asst. Professor, Dept. of ECE Profes Dept. of ECE EaC Engineering A GOWDA VOCEverna Cowda Bommanahalli, Bangalore-560 068The Oxford Cellings of Engineering Bommanahalli, Hosur Road

Name of the Examiners

Examiner 1. NAVEEN LUMAR G.A.

Examiner 2. Sounge G

Gornge G 1 7 106/ 8

ngaluru-560 068 Signature with Date

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 "TIME REFERENCE SYSTEM" carried out by Ms. AISHWARYA S (10X14EC004), Ms. ANUSHREE G BHAT (10X14EC008), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING COMMUNICATION ENGINEERING under ELECTRONICS AND in VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the year FEB-MAY 2018. 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 required for the above said degree.



Mrs. LAYA TOJO Asst. Professor Dept. of ECE

Dr. MANJU DEVI Professor Dept. of ECE The Oxford College of Engineering Bommanahalli, Bangalore - 560 068.

RINCIPAL

Dr. R.V. PRAVEENA GOWDA

Dr. RV Praveena Gowda Principal Professor & HOD of E&C Engineering Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners

Examiner 1: Dr. Mary Dei Examiner 2: MIPAPPA

Signature and 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 "AUTOMATIC MOVEABLE RAILWAY PLATFORM WITH TRAIN ARRIVAL DETECTION AND MONITORING OVER IOT" carried out by AISHWARYA K R (IOX14EC002), DEEKSHITHA G S (IOX14EC021), NAGASHREE N (IOX14EC050), ARCHANA S (IOX15EC403), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2014-19. 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 in respect of Project work prescribed for the Degree.

Rice f Cionde Paul 3/12/6/18 AROD

Mr.RICHARD LINCOLN PAULRAJ Asst. Prof. Dept of ECE

Dr. MANJU DEVI Dr. PRAVEENA GOWDA The Oxford College of Engineering R V Praveena Gowda Professoria HPD to E&C Engineering Bommanahalli, Bangalore - 560 068 ford College of Engineering

Name of the Examiners Examiner 1. D. Manju Den Examiner 2. M. PAPPA

Bommanahalli, Hosur Road Bengaluru-560 058 Signature with Date

Principal

ii.

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 "IMPLEMENTATION OF AUTOMATIC ENGINE LOCKING SYSTEM FOR DRUNKEN DRIVERS" carried out by AKSHAY BONGALE: 10X14EC005, GANESH N M: 10X14EC025, BHUMIKA C J: 10X14EC016, ABHINANDAN GOWDA: 10X15EC401, bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2017-18. 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 in respect of Project work prescribed for the Degree.

N. 106118

Guide 6 Mr. ANAND WARAD

Dr. MANJU DE Asst. Professor, Dept. of ECE Professor & Dept. of ECE The Oxford Corpoce Engineering Bommanahalli, Bangatore-560 068 The Oxford College of Engineering

Principal Dr. PRAVEENA GOWDA Vieering Dr. RV Prapoena Gowda Principal Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners

Examiner 1. NAVE EN KUMAR GN. Examiner 2. Poung 6 g

Signature with Date

- C. Nousen lenmon Connya 9 14/06/18

10th Milestone, Bommanahalli, Hosur road, Bengaluru - 560068



Department of Electrical and Electronics Engineering CERTIFICATE

This is to certify that the project work entitled "DESIGN AND DEVELOPMENT OF CONTROL PANEL FOR AGRICULTURAL SUBMERSIBLE/FLATBED TYPE MOTORS" is a bonafide work carried out by BHOOMIKA T K (10X14EE015), DIVYA R (10X14EE029), GURURAJA K K (10X14EE033), KARTIK (1OX14EE040), students of The Oxford College Of Engineering, Bangalore, in partial fulfillment in the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. It is certifies that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The seminar report has been approved as it satisfies the academic requirements in respect to seminar work prescribed for the said degree.

Signature of the guide

ProDrisBhardthov Sapt. of EEE The Oxford College of Engineering Bommanahalli, Hosur Road, BANGALORE - 560 068.

2. R. GUNASEKARY

Name of Examiners

Signature of HOD

Dr. Bharath V S

Professor & Head, Dept. of EEE The Oxford College of Engineering Bommanahalii, Hoaur Road.

BANGALORE - 560 068. 1. Dr. Bharodh . V.S.

Signature of the Principal

Dr. Rr.V.PVayeena Gowda Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road

Bengaluru-560 068

Signature with date 212/6/18

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

NBA&NAAC New Delhi)

10th Milestone, Bommanahalli, Hosur Road, Bangalore – 560068 Department of Electrical and Electronics Engineering



CERTIFICATE

This is to certify that work entitled "AUTOMATIC SMART PARKING USING INTERNET OF THINGS" is a bonafide work carried out by AKSHATA K N (10X14EE009), ASHWINI R(10X14EE014), CHAITHRA M(10X14EE019),

DEEKSHA N R(10X14EE025) in partial fulfillment for the award of **Bachelor of Engineering** in **Electrical and Electronics Engineering** of **Visvesvaraya Technological University**, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

Signature of Internal Guide

Mr. N Muniyappa Professor, Dept. of EEE

Name of the Examiners:

Signature of Principal

Signature of HOD

H.O.D, Dept. of EEE

Dr.V.S.Bharath

Dr.R.V Praveena Gowda Dr. R.V. Pravena Gowda Principal, TOCE

Preference & Hand, Dept. of EFE Oxford College of Engineering The Oxford College of Engineering ommanaballi, Hosur Road Bommanaballi, Hosur Road, Signature with Dates BANGALORE - 559 068.

1. Do. Bhavapp. V.S. 2. R. GUNASELATU

Bhur B12/6/18 PS 12/6/18

Bommanahalli, Hosur Road, Bangalore - 560068

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that project work entitled "WIRELESS POWER TRANSMISSION AND CONTROLLING IT WITH IOT" is a bonafied project work carried out by AATIB RIYAZ MIR(10X14EE004), IQUBAL SAIYED MUBASSHIR (10X14EE035), JAGADISH (10X12EE029), SUNILKUMAR H (10X13EE098) in partial fulfillment for the award of bachelor of ENGINEERING in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

Assist.professor, Dept of EEE (Project internal guide)

Praveena Gowda Dr.N.S. Bharath Dr. R.V

Professor College of Engineering Bommanahalli, Hosur Boad, BANGALORE - 560 068 Bengaluru - 560 068 Bengaluru - 560 068

Name of the Examiners:

1. Dr. Bharouth, 'V.S. 2. R. GUNASERARI

Shul 2 12 fo 751 jz/6/18

Bommanahalli, Hosur Road, Bangalore - 560068 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



This is to certify that work entitled "AUTOMATED GREENHOUSE USING ARDUINO" is a bonafied work carried out by AISHWARYA M (10X14EE006), BINDIYA MAHESH (10X14EE016), JENEFFER S (10X14EE038), KEERTHANA B (10X14EE042), students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of ENGINEERING in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

c. Da Nishe Signature of the guide

Mrs Nisha C Rani Associate professor

Name of the Examiners:

1. Dr. Bharrathy V.S. 2. R. GUNASERARY

ignature of the principal

Dr Bharath V S

Praveena Gowda da Principal The Oxferincipalge of Engineering

Dept. of EEE The Oxferincipal ge of Engineer Professor & Head, Dept. of EEE Bommanahalii, Hosur Road The Oxford College of Engineering Bengaluru-560 068 Bommanahalli, Hosur Rosignature with Date: BANGALORE - 560 068.

Shum 211/6, PS2-12/6/18

Accredited by NBA, NAAC & IAO Hosur Road, Bommanahalli, Bangalore - 560068 (Affiliated to VTU and approved by AICTE)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



This is to certify that the project work entitled "DESIGN AND DEVELOPMENT OF MILITARY BOT" carried out by ABHISHEK S С (10X14EE005). CHETHAN G (10X14EE023), LIKHIT B V (10X14EE044), MOHAMMAD MURTAZA (10X14EE055) is a bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in ELECTRICAL AND ELECTRONICS ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM. During the year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment has been incorporated in the report deposited in the Departmental Library. The Project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering.

Signature of the Guide

Mr.JAYAKUMAR N

Signature of the HOD Professor & Head, Dept. of EEEDr. The Oxford College of Engineering BonDr:BHARAHHW Soudh

BANGALORE - 580 06

External Examiners:

1. Dr. Bharath, 2. R. hUNASEKARY

Signature with date:

m2+2/6. 52-12-161

Bengaluru - 560 058

of the Principal

V PRAVEENA GOWDAG

aveena Gowda

Accredited by NBA, NAAC & IAO Hosur Road, Bommanahalli, Bangalore – 560068 (Affiliated to VTU and approved by AICTE)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "RADIO FREQUENCY CONTROLLED WHITE BOARD EARSER" carried out by MADHU SUDHAN G S (10X14EE045), GURU PRASAD N (10X15EE404), KIRAN KUMAR I (10X15EE408), is a bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in ELECTRICAL AND ELECTRONICS ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM. During the year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment has been incorporated in the report deposited in the Departmental Library. The Project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering.

P. M.S. Reddy. Signature of the Guide

Signature of the HOD

Signatu e of the Principal

Dr. RV Praveena Gowda

Mr.MADHU SUDHAN P

Pr.BHARATH Viscot Dr.R.V PRAVEENA' GOWDA The Oxford College of Engineering De Oxford College of Engineer Bommanahalli, Hosur Road Bommanahalli, Hosur Road. Bengaluru-560 068 BANGALORE - 580 068 Signature with date:

External Examiners:

1. Dr. Mains Hik 2. N. Monigath

Bommanahalli, Hosur Road, Bangalore – 560068 (Affiliated To Visvesvaraya Technological University, Belgaum) Department of Electrical and Electronics Engineering



CERTIFICATE

This is to certify that the following students,

DEEPA M GAGANA V KARNA C P MEGHANA O 10X14EE026 10X14EE031 10X14EE039 10X14EE051

bonafide students of The Oxford College of Engineering, Bangalore, has completed the project work entitled "MODERN METHOD OF PROTECTION SYSTEM FOR MOTOR" in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017 -2018. 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 in respect of project work prescribed for the said degree.

fic Ralp Signature of Guide

Mr. Madhusudhana Reddy p

External viva Name of the Examiners: 1. Dr. Bhaveto 15. 2. R.GUNASERARI

Signature of HOD

Dr. Bharath V.S Professor & Head, Dept. of EEE The Oxford College of Engineeringhe Oxford College of Engineeringhe Oxford College of Engineering Bommanahalli, Hosur Road, BANGALORE - 560 068. Dr. R.W Braween Cowde da Principal Principal Bommanahalli, Hosur Road, Bengaluru - 560 068

Signature with Date Shund Z12-16. PSL-1216118

Signature of principal

The Oxford College of Engineering

(Approved by AICTE New Delhi, and affiliated to VTU, Belgaum, Accredited by NBA and NAAC New Delhi) 10th Milestone, Bommanahalli, Hosur Road, Bengaluru-560068



CERTIFICATE

This is to certify that the following bona fide students.

KESHAVADUTTA S

MALLESH H G

MOHAN KUMAR R

NANDAN K E

USN: 10X14EE043 USN: 10X14EE048 USN: 10X14EE056 USN: 10X14EE058

Of The Oxford College of Engineering, has completed the project work entitled "SOLAR PV WATER PUMPING USING VFD FOR IRRIGATION PURPOSE" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 seminar work prescribed for the said Degree.

Signature of Guide

Mrs. Sumitha T L

Signature of HOD

ure of Principal

Dr. Bharath V S Promotor & Head, Dout of EEE The Oxford College of Engineering The Oxford College of Engineering Name of the Examiners: BANGALORE - 560 068.

1. Dr. Bhanath. V.J., 2. R. GUNASEKAR

Dr. R.V Praveena Gowda Dr. RV Praveena Gowda Signature with Date oad Bendaluru - 560 068

Bommanahalli, Hosur Road, Bangalore - 560068 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that work entitled "SOLAR POWERED DENSITY BASED TRAFFIC CONTROL SYSTEM WITH EMERGENCY VEHICLE ALERT" is a bonafied work carried out by BINDU R P (10X14EE017), KEERTHANA E M MADHUSHREE D (10X14EE046) so on in partial fulfillment for the (10X14EE041), award of bachelor of ENGINEERING in Electrical and Electronics Engineering of Visvesvarava Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

1. Someswan Madhusudhana reddy P Designation, Dept of EEE (Project internal guide)

.S. Bharath

Praveena Gowda Dr. R.

H.O.D, Dept. of EEE Principal, TOCE Professor & Head, Dept. of EEE Dr. RV Praveena Gowda The Oxford College of Engineering Permission Principal Permission Permissio BANGALORE - 560 068.

Bommanahalli, Hosur Road Bengaluru-560 068 Signature with Date

Name of the Examiners: 1. DR- MAHMITIC

Bommanahalli, Hosur Road, Bangalore – 560068 (Affiliated To Visvesvaraya Technological University, Belgaum) Department of Electrical and Electronics Engineering



CERTIFICATE

Certified that the project entitled "DESIGN AND DEVELOPMENT OF FARMER FRIENDLY SOLAR BASED ELECTRIC FENCE FOR AGRICULTURAL APPLICATIONS" carried out by ARPITHA A M (10X14EE013), CHAITANYA J N (10X14EE018), CHAITHRA R K (10X14EE020), HARSHITHA J (10X14EE034) bonafide students of The Oxford College of Engineering, Bangalore, in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017 -2018.

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 in respect of project work prescribed for the said degree.

Mr.Jayakumar N Associate Professor Dept of EEE

Dr. R.V. Raveena Gowda

Professor & Head, Dept. of EEBr. IPhinoipal/eena Gowda The Oxford College of Engineering Borgenzer FEEE Hosur Road BANGALORE - 560 068. The Oxford College of Engineering Bormanahaili, Hosur Road Borgaluru-560 068

Name of the Examiners: 1. D.S. MAHESH(C

2. N' Muniyad

Bommanahalli, Hosur Road, Bangalore - 560068

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

certify that work entitled "MONITORING OF LIVE This is to MOVEMENT OF AMBULANCE" is a bonafide work carried out by CHINMAYA H G (10X13EE024) NAGESH IMADE (10X13EE052) GEDDAPPA MURNAL (10X14EE403) NAGARAJ (10X14EE414) so on in partial fulfillment for the award of bachelor of ENGINEERING in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

nternal Guide

Mrs ARUTSELVI,

Signature of HOD

Dr.V.S.Bharath

Signature of Principal Dr.R.Praveena Go

1. 2.

Name of the Examiners: Protocolor & Hond, Dept. of EEE The Oxford College of Engineering Signature with Date:

. MALT FS/PORManahalli, Hocur Road, BANGALORE - 500 068.

10th Milestone, Bommanahalli, Hosur road, Bengaluru - 560068



Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify that the project work entitled "SPEED CONTROLE OF INDUCTION MOTOR USING ANDROID APPLICATION " is a bonafide work Carried out by MANJUNATH.S.P.(10X15EE411), RAGHAVENDRA.K.R, (10X15EE414), RAVINDRA.M.P(10X15EE416), SUNILKUMAR.G(10X15EE421) students of The Oxford College Of Engineering, Bangalore, in partial fulfillment in the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017–2018. It is certifies that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The seminar report has been approved as it satisfies the academic requirements in respect to seminar work prescribed for the said degree.

Signature of the guide

Signature of HOD

rlass Signature of the Principal

Mr. MUNIYAPPA Nrofaseur a Harath VS Dr. R V PRAYEENA GOWDAA The Oxford College of Engineering Principal Bommanzhalli, Hosur Road, The Oxford College of Engineering BANGALORE - 560 068. Name of Examiners

Name of Examiners 1. Dr. MAHANHAC 2. N. Muniyapz

DEPT OF EEE, TOCE

The Oxford College of Engineering

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

10th Milestone, Bommanahalli, Hosur Road, Bangalore – 560068



CERTIFICATE

This is to certify that the following students,

AKASH V M ESHVARAN R A MANOJ KUMAR M **MERLIN SHIBU**

10X14EE008 10X14EE030 1OX14EE050 1OX14EE052

bonafide students of The Oxford College Of Engineering, has completed project work entitled "DESIGN AND DEVELOPMENT OF AUTOMATIC 3-PHASE INDUCTION MOTOR STARTER WITH PARAMETER DISPLAY PANEL" in partial fulfillment in the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017 - 2018. 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 to seminar work prescribed for the said degree.

Signature of HOD

Signature of the guide

Mrs. Arut Selvi Nagammai

Dr. Bharath V S Profession & Hourd, Dept. of ES The Oxford College of Engineering Bommanahalli, Hosur Road, BANGALORE - 580 UDA.

filter Phincipa Gowda The Drx Bry Bunysenar Engineering Bonnanghalli, Hosur Road Bondaluru-560 068

Name of Examiners:

1. DA. MAHIESH. (C 2. No, Muning a

Bommanahalli, Hosur Road, Bangalore - 560068 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that work entitled "ANTI SMUGGLING SYSTEM FOR TREES IN THE FORESTUSING SOLAR POWER GENERATION" is a bonafied work carried out by APOORAVA PRIYA G(10X14EE012), **MANJUSHREE** J A (10X14EE049), RANGANATHA N G (10X15EE415) in partial fulfillment for the award of bachelor of ENGINEERING in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelorof Engineering.

Mrs.Arut Selvi Nagammai

Signature of HOD.

Principal

Dr.Bharath V.S

Dr.R.V.Praveena Gowda Professor & Head, Dept. of EEEDr. RV Praveena Gowda

The Oxford College of Engineering Principal Bommanahalli, Hosur RoadThe Oxford College of Engineering Bommanahalli, Hosur Road BANGALORE - 560 068.

Name of the Examiners: 1. PA MAHESHIK 2. N. Mun

Tolog

Bommanahalli, Hosur Road, Bangalore - 560068 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the work entitled "REGENERATING THE ENERGY THROUGH ELEVATOR TO POWER AC CFL LAMP LOADS USING INVERTER" is a bonafied work carried out by BALAJI P (10X15EE402), GOPAL S KONNUR (10X15EE403), SAHANA S (10X15EE407), SOWMYA H R (10X15EE419) so on in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017 -2018. 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

degree of/Bachelor of Engineering.

d.il Signature of Internal Guide Mrs.DeviVighneshwari.B Associate Professor, Dept of EEE, TOCE

Name of the Examiners 1. DA. MAHFIHIC

2. Al, Menny

Csignatoro or HOD

ignature of Principal

Dr.V.S.Bharath H.O.D,

Dr.R.V.Praveena Gowda Dr. R Velhoipalena Gowda

Dept of EEE, TOCE The ORDER CERSO of Engineering Professor & Head, Dept. of EESommanahalli, Hosur Road The Oxford College of Engineering Bengaluru-560 068 Bommanahalli, Hoeur Road, Signature with Date BANGALORE - 560 068.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

THE OXFORD COLLEGE OF ENGINEERING

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



CERTIFICATE

Certified that the Project entitled work "SWITCHED CAPACITOR DC-DC CONVERTER IN SATELLITE APPLICATIONS" has been carried out By Pavithra M (10X14EE063), Pradeep Yadav (10X14EE067), Saniya Fatima (10X14EE087) And Tayyaba Naaz (10X14EE104), bonafide student of The Oxford College of Engineering, Bangalore, in partial fulfilment for the award of the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2017-2018. Thus, it is certified that all correction/suggestion 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 to the project work.



Praveena Gowda

Mr. Raghumanth A Internal Guide Assistant Professor, EEE

Dr. V S Bharath Head of Department

EEE Professor & Head, Dept. of EEE Professor & Head, Dept. of EEE TOCE Principal Professor & Head, Dept. of EEE Professor & Head, Dept. of EEE Professor & Head, Dept. of EEE Bommanahalli, Hosur Road, Bommanahalli, Hosur Road, RS BANGALORE - 560 058. Dr. RV Praveena Gowda Principal Bommanahalli, Hosur Road, Bendaluru-560 068

2116/18

Principal

EXTERNAL EXAMINERS

1. Dr. Bharath. 'C 2. R. GUNASERARI

The Oxford College of Engineering

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

10th Milestone, Bommanahalli, Hosur Road, Bangalore - 560068



ERTIFICATE

This is to certify that the following students,

MITALI RAI **PAKASH MENON RAVINA KUMBOJ** SAHAN A M

1OX14EE053 1OX14EE061 1OX14EE083 **10X14EE085**

bonafide students of The Oxford College Of Engineering, has completed project work entitled "ENERGY AUDITING AND PWM BASED SOLAR CHARGE CONTROLLER" in partial fulfillment in the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017 - 2018. 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 to seminar work prescribed for the said degree.

Signature of HOD

Signature of the guide Mrs. Devi Vighneshwari

Dr. Bharath V S

BANGALORE - 500 068.

Signature of the Principal

DPrIRW Prayeena Goodavda

Name of Examiners: Signature with date

- Principal The Oxford College of Engineering Bommanahalli, Hosur Road Professor & Hoad, Dept. of SEBengaluru-560 068
- 1. Dr. Bharath, Barnesnehalli, Hosur Colling 2. R. GUNASZRARY

Bommanahalli, Hosur Road, Bangalore - 560068 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



This is to certify that work entitled "HARMONICS MITIGATION CAUSED BY NON-LINEAR LOADS USING SHUNT ACTIVE POWER FILTER" is a bonafied work carried out by RACHANA M(10X14EE073), SANIYA FIRDOSE(10X14EE088), SHRAIYA SUNDRIYAL(10X14EE093), YUVA RANJINI N B(10X14EE113) in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.



Asst. Prof., Dept. of EEE (Project internal guide)

Name of the Examiners: 1. Dr. Bharath 2. R. SUNASELARY

Praveena Gowda

Dr. V.S. Bharath H.O.D, Dept. of EEE

Dr. Rringinal TOCE Gowda Professor & Hoad, Dogt of EEE Principal

The Oxford College of EngineThe Oxford College of Engineering Bommanahalli, Heaur Read, Bommanahalii, Hesur Road BANGALORE - 450 Cas Signature with Date: Bengaluru-560 068

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

Department of Electrical and Electronics Engineering



CERTIFICATE

This is to certify that work entitled "DESIGN AND DEVELOPMENT OF CLOSED LOOP CONTROL OF BRUSHED DC MOTOR" is a bonafide work carried out by POOJA SHREE B (10X14EE065), SHANKAR LINGAM J (10X14EE090), SHRAYANA SHETTY M (10X14EE094), SUBHASH M (10X14EE099) so on in partial fulfillment for the award of bachelor of ENGINEERING in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of

Engineering. Signature of Internal Guide

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

Name of the Examiners:

Do. Bhareath R. Gurras EKARJ 2.

Signature of HOD

Dr.V.S.Bharath

Signature of Principal Br.R.V. Praveena Gowda Br.R.V. Praveena Gowda

H.O.D,

Principaloal The Oxford EEE TOCE f Engineering Dept of EEE, TOCE. Provision & Hand, Depr.

Bengaluru-560 068

The Oxford College of Engineering Bommansheld, Hosur R'Signature with Date: BANGALORE - EEN DE

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Bommanahalli, Hosur Road, Bangalore - 560068 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that work entitled "DESIGN AND ANALYSIS OF AC TO DC CONVERTER (24 PULSE) FOR AEROSPACE APPLICATION" is a bonafied work carried out by SHRUDDA (10X14EE096), SHWETHA K S (10X14EE097), SYED SAIF AHAMAD (10X14EE103), JAGADISH M (10X13EE031) so on in partial fulfillment for the award of bachelor of ENGINEERING in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

HOD

raveena Gowda

Principal, TOCE Dr. R.V Praveena Gowda Principal

Mr. Muniyappa

Assitant Professor Dept of EEE, TOCE

Dept of EEE, TOCE The Oxford College of Engline The Oxford College of Engineering Bommanahalli, Hoeur Road, Bommanahalli, Hosur Road BANGALORE - 560 068. Bendaluru - 560 068

Name of the Examiners:

1. Do. Bharoth, V.S.

R. GUNBSERARI

Signature with Date:

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

NBA&NAAC New Delhi)

10th Milestone, Bommanahalli, Hosur Road, Bangalore – 560068 **Department of Electrical and Electronics Engineering**



CERTIFICATE

This is to certify that work entitled "INTEGRATION OF SOLAR PV SYSTEM WITH EXISTING UNINTERRUPTIBLE POWER SUPPLY" is a bonafide work carried out by **PREETHI.N.M** (1OX14EE069) in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

Signature of Internal Guide

Mrs. Sandhya Rai

Associate Professor Dept of EEE Name of the Examiners:

Dr. Bharath R. CUNIASER DRI 1. 2.

thursd 2

Signature of HOD

Dr.V.S.Bharath

Dr. R.V. Praveena Gowda Principal, TOCE H.O.D, Dept. of EEE Professor & Head, Dept. of Ebe Oxford Collage of Engineering The Oxford College of Engineering Bencoluru-580.058 Bommanahalli, Hosur Road, Bengalury - 560 068 Signature with Date:

BANGALORE - 560 068.

Shur 211 6/14

Signature of Principal .

11)6/18

Bommanahalli, Hosur Road, Bangalore – 560068 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that work entitled "Analysis of Nine Level Single Phase Multi Level Inverter Topology" is a bonafied work carried out by VARSHA S (10X14EE108), ARUN KUMAR T (10X15EE401) and SANTHOSH N HUBBALLI (10X15EE418) in partial fulfillment for the award of bachelor of ENGINEERING in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

5. Dedna R

Asst Prof, Dept of EEE

Dr. V.S. Bharath

H.O.D, Dept. of EEE

Professor & Head, Dept. of EEE The Oxford College of Engineering Bommanahalli, Hoeur Road, BANGALORE - 560 068.

Name of the Examiners:

Dr. MAHF, H(1. Was

. Pravegna Gowda

Principal, TOCE Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Signature with Dates

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



CERTIFICATE

This is to certify that the following students,

POOJA ROHIDAS NAIK

PRIYANKA KUMARI

PRIYANKA SINSINWAR

10X14EE064 10X14EE071 10X14EE072

Bonafied students Of THE OXFORD COLLEGE OF ENGINEERING, Bangalore has completed the project work entitled "CONTROLLING THE PROCESS OF COKE OVEN COMPLEX" in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of THE VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the year 2017-2018. It is certified-that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library.

Signature of Guide

Name of the examiners:

1 Dr. Bharath. VJ.

R. GUNASEKARI

Signature of H.O.D

Professor & Head, Dept. of EEV The OxforDr Bharath V Engineering to Oxford College of Engineering Dommanaballi, Hosur Road, Bommanaballi, Hosur Road, BANGALORE - 560 068: BANGALORE - 560 068: BANGALORE - 560 068.

dre of Principal

a Gowda

RSL_16118

Bommanahalli, Hosur Road, Bangalore – 560068 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



<u>CERTIFICATE</u>

This is to certify that work entitled "COMPARATIVE STUDY OF SOLAR PANEL POSITIONING SYSTEM USING STATIC AND SINGLE AXIS TRACKER WITH SEPIC CONVERTER" is a bonafide work carried out by NITESH SHARMA (10X14EE059), SYED AL FARHAN (10X14EE102), SOORAJ G K (10X14EE098), SHREEKANTH B (10X14EE095) so on in partial fulfillment for the award of bachelor of ENGINEERING in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

Mr Raghumanth .A Asst prof. Dept of EEE

Name of the Examiners:

Dr. V.S. Bharath

/ Praveena Gowda

H.O.D. Dept. of EEE Professor & Head, Dept. of EEDF. R. Praveena Gowca The Oxford Collage of Engineering Rommanshall, Hocur Rosthe Oxford Collage of Engineering BOMGALORE - 550 058, Bommanahalli, Hesur Road Bengaluru-550 068

Signature with Date: Shund 24/6/18 P-52 116/18

2. R. GUNASEKARI

1. Dr. Bharath VS.

Bommanahalli, Hosur Road, Bangalore – 560068 (Affiliated To Visvesvaraya Technological University, Belgaum) Department of Electrical and Electronics Engineering



CERTIFICATE

Certified that the project entitled "ROOFTOP SOLAR PV PLANT FOR AC AND DC APPLICATIONS" was presented by MITHUN.U.KRISHNAN(10X14EE054), RASHMI.S(10X14EE081), VIDYASHREE.M.S (10X14EE110), VIJAY.V.G(10X14EE111) , the bonafide students of The Oxford College of Engineering, Bangalore, in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017 -2018. 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 in respect of project work prescribed for the said degree.

Mr. Raghumanth A Assistant Professor, Dept of EEE

Dr. V S Bharath Protector & Hoad, Dept. of EEE The Oxford College of Engineering Bommar Dept. of EEE Road, BANGALORE - 560 068.

Dr. R V Praveena Gowda

Dr. R Vilincipalena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners: 1. Do. (Shavath. (MUNDSEL API 2.

nature with Date:

Bommanahalli, Hosur Road, Bangalore - 560068

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that work entitled "COMPARATIVE STUDY AND ANALYSIS OF CLOSED LOOP BLDC MOTOR USING THREE PHASE INVERTER BY PWM, SPWM AND SVPWM METHODS" is a bonafied work carried out by SANYA BEGUM (10X14EE089), SHASHANK MANJUNATH (10X14EE91), NUTHAN BS (10XEE058) and PRITI SINGH (1OX10EE036) in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

Mrs. Bhuvanes

Asst Prof, Dept of EEE

Dr. V.S. Bharath

Praveena Gowda

H.O.D, Dept. of EEE Principal, TOCE Professor & Head, Dept. of EEDr. RV Praveena Gowda The Oxford College of Engineering Principal Bommanahalli, Hosur Rothe Oxford College of Engineering BANGALORE - 540 055. Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners:

1. Dr. Bharath. V.S. 2. R. GUNASEKARI

Shunk 2 12/1, RJL-12-16/18

10th Milestone, Bommanahalli, Hosur Road, Bangalore - 560068 (Approved by AICTE New Delhi, Affiliated to VTU, Belgaum, Accredited by NBA&NAAC New Delhi)

Department of Electrical and Electronics Engineering



CERTIFICATE

This is to certify that work entitled "BLUETOOTH CONTROLLED HEXAPOD WALKING ROBOT USING AN ANDROID APPLICATION" is a bonafide work carried out by AKSHAY KUMAR JOSHI (10X15EE400), JAYANTH S (10X15EE407), SUSHMA M (10X14EE100), VIDYA (10X14EE109) in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2017-2018. 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

Assistant Professor **Dept of EEE**

Dr. V S Bharath

H.O.D

raveeha Gowda raveena Gowda Principalpal

The Oxford College of Engineering Profess Dept of EEE Bommanariani, Hosur Road The Oxford College of Engineering Bengaluru-560 068 Bommanahalli, Hosur Road,

BANGALORE - 550 068. Signature with Date:

Name of the Examiners:

MAHISHK J. Muni

Bommanahalli, Hosur Road, Bangalore – 560068 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the following student "SHABHARISH N SWAMY" is a bonafied students of **The Oxford College Of Engineering** Bangalore work carried out by so on in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of **Visvesvaraya Technological University**, Belgaum during the year 2017-2018: 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 satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

Signature of

MR.Madhusudhana reddy

Signature of HOD

Dr.Bharath V.S

ure of Rfincipal

DR.R.V. Praveena Gowda Dr. R.V. Praveena Gowda

Professor & Head, Dept. of EEE Principal The Oxford College of Engineering Oxford College of Engineering Bommanahalli, Hosur Road, Bommanahalli, Hosur Road BANGALORE - 560 068. Bengaluru - 560 068 Signature with Date:

Name of the Examiners: 1. DR. MAHIEJINC 2. N. Menyapp

1steles

The Oxford College of Engineering

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10th Milestone, Bommanahalli, Hosur Road, Bengaluru - 560068



CERTIFICATE

This is to certify that the following students,

AKASH RAY	USN: 10X12EE003
AJINKYA BELOSE	USN:10X10EE003
FAHD AHMAD	USN: 10X10EE072
PRASHANTH BERA	USN: 10X13EE064

bonafide students of The Oxford College of Engineering, has completed the project work entitled "DEVELOPMENT OF A REAL TIME MONITERING AND CONTROLLING OF ELEVATOR BASED ON PLC AND SCADA" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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 seminar work prescribed for the said Degree.

Signature of Guide Dr. Bharath V.S

Name of the Examiners:

1.

2. R. GUNASER ARI

Signature of HOD

Dr. Bharath V.S. Protoscor & Head, Dapt. of EEE The Oxford College of Engineering BoromanansIII, Heaur Road, BANGALORE - 500 058.

Signature of Phincipal

Dr. R.V Praveena Gowda Dr. R.V Praveena Gowda Principal The Oxford College of Engineering BSignuture With date. Road Bengaluru - 560 068

->12/6/18

The Oxford College of Engineering

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

10th Milestone, Bommanahalli, Hosur Road, Bengaluru - 560068



<u>CERTIFICATE</u>

This is to certify that the following students,

ATISH KUMAR KEERTHI M SINDHU SHREEDHAR HEGDE SWETA S PATIL

USN: 10X11EE017 USN: 10X12EE404 USN: 10X12EE416 USN: 10X14EE101

bonafide students of The Oxford College of Engineering, has completed the project work entitled "SOLAR POWERED ELECTRIC VEHICLE CHARGING STATION" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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 seminar work prescribed for the said Degree.

hature of Guide

Mrs. Deepa R

Name of the Examiners: BAH 1. D.S. MAHFJH (C 2. N.J. MMJaff

Dr. Bharath V.S

re of Principal Signa

Dr. R.V Praveena Gowda Dr. R V Praveena Gowda

Professor & Head, Dept. of EEE Principal The Oxford College of Engineering Bommanahalli, Hoeur Road, Boignature with date. Road BANGALORE - 560 068. Bengaluru - 560 068

BOMMANAHALLI, HOSUR ROAD, BANGALORE- 560068

(Affiliated to VTU & approved by AICTE)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This to certify that the Project work entitled "TO STUDY MECHANICAL PROPERTIES OF ALUMINIUM ALLOYS RIENFORCED WITH SILICON CARBIDE & FLY ASH A HYBRID METAL MATRIX COMPOSITES" carried out by the students YOGESH KUMAR [10X14ME088], HANOCH NADAKATTIN [10X15ME404], RAHUL SAHUKAR [10X15ME413] & SHIVAMURTHY MATHAPATI [10X15ME417] of The Oxford College of Engineering, Bangalorein the partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Vishveswaraya Technology University, Belagavi, during the year 2017-18. The project report has been approved as it satisfies the academic requirements in resplect of seminar prescribed for the said degree.

Signature of Guide

Mr. Suhas V

Signature of H.O.D Showeene Bedartment of Mechanicat

Dr.N.B.Doddapattar

Principal **TOCE**

Her I the Dr, R, V. PraveenaGowda 560 000Dr. R raveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

External Viva

Name of Examiners

Dr. N. B. Dallepelle

Hosur Road, Bommanahalli, Bengaluru-560068 (Affiliated to VTU, Belagavi)

Department of Mechanical Engineering



CERTIFICATE

Certified that the project entitled "SOLAR POWERED WEED REMOVING AND PESTICIDE REMOVING MACHINE" carried out by N V KARTIK (10X14ME052), NANDAN N (10X14ME057), H SWARAJ SHETTY(10X14ME023), MAHESH R (10X15ME409) bona-fide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-18. It is certified that all 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.

Mr. RAVIPRAKASH Mpp Dr. N.B.DODDAPATAR Dr.R.V.PRAVEENA GOWDA Guide, Asst Professor, TOCE Professor & HOD, Dept of MECH ERING **Principal, TOCE** of Engineering BOMMANAHALLI, BANGALORE-550008 e Oxford C Bommanahalli, Hosur Road Bendaluru-560 068 **External Viva**

Name of the Examiners

depalle

THE OXFORD COLLEGE OF ENGINEERING HOSUR ROAD, BOMMANAHALLI, BENGALURU-68 (Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Mechanical Engineering



CERTIFICATE

Certified that the project entitled "OPTIMIZATION AND FABRICATION OF SMART PV MODULE SYSTEM USING LDR SENSOR" carried out by HARISH KUMAR S (10X14ME025), KARTHIK CHANDRAKANTH PATIL (10X14ME035), LIKHITH GOWDA C S (10X14ME040), HARIPRASHANTH D (10X15ME405) bona-fide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-18. It is certified that all 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.

Mr. Vidyadhar Pujar

Dr.R.V.Praveena Gowda Dr. N.B.Doddapattar Guide,Asst.Professor TOCE H.O.D Dept. of ME **Principal**, TOCE GINEERING THE OXFORD COLLEGE OF ENGINEERINGDY. RV Praveena Gowda Principal BOMMANAHALLI, BANGALORE-560068 The Oxford College of Engineering Bommanahald, Heser Road Bengaluru-560 068

External Viva

Name of the Examiners 1. 1)

(Affiliated to Visvesvaraya Technological University, Belagavi)



Department of Mechanical Engineering

CERTIFICATE

Certified that the project entitled "DESIGN AND FABRICATION OF SOLAR BASED AUTOMATIC IRRIGATION SYSTEM ON SENSING AND TESTING OF SOIL MOISTURE" carried out by AAVESH (10X14ME090), HASNAPPA (10X14ME091), RAVI (10X14ME092) bona-fide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-18. It is certified that all 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.

Mr. Abhijith M

V.Praveena Gowda Dr.R/

Dr. N.B.Doddapatar

Guide, Asst. Professor, TOCE H,O.D Dept. of ME Principal, TOCE galenningDr. RV Praveena Gowda Repairing ashed Szaganne 550 066 Principal The Oxford College of Engineering Bommanahalli, Hesur Road Bengaluru-560 068

External Viva

Name of the Examiners 1. Do N.S. Dorlale

sher

HOSUR ROAD, BOMMANAHALLI, BENGALURU-68 (Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Mechanical Engineering



CERTIFICATE

Certified that the project entitled "OPTIMIZATION AND FABRICATION OF SMART PV MODULE SYSTEM USING LDR SENSOR" carried out by HARISH KUMAR S (10X14ME025), KARTHIK CHANDRAKANTH PATIL (10X14ME035), LIKHITH GOWDA C S (10X14ME040), HARIPRASHANTH D (10X15ME405) bona-fide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-18. It is certified that all 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.

for 2/6/18

Mr. Vidyadhar Pujar Dr. N.B.Doddapattar Guide,Asst.Professor TOCE H.O.D Dept. of ME

Dr.R.V.Praveena Gowda Principal, TOCE

DEPARTMENT OF MEETANNOAC ENGINEERING THE OXFORD COLLEGE OF ENGINEERING THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, BANGALORD-SITTORS Principal The Oxford College of Engineering

External Viva

Name of the Examiners

NB Dac .N.S hac

Signature with Date

Bommanahalli, Hosur Road Bencaluru-560 068

Department of Mechanical Engineering

Estd. 1974

CERTIFICATE

Certified that the project entitled "DESIGN AND FABRICATION OF SOLAR **BASED AUTOMATIC IRRIGATION SYSTEM ON SENSING AND** TESTING OF SOIL MOISTURE" carried out by AAVESH (10X14ME090), HASNAPPA (10X14ME091), RAVI (10X14ME092) bona-fide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-18. It is certified that all 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.

+16/18 Mr. Abhijith M

Dr.R.WPraveona Gowda

Dr. N.B.Doddapatar ineena. H.O.D Dept. of ME Guide, Asst. Professor, TOCE Chigannia 580 08.

Principal, TOCE Dr. RV Praveena Gowoa Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

External Viva

Name of the Examiners

NB 1.



HOSUR ROAD, BOMMANAHALLI, BENGALURU-68 (Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Mechanical Engineering



CERTIFICATE

Certified that the project entitled "FABRICATION OF CAR THEFT AND ACCIDENT PREVENTER"carriedoutbyGOWTHAM.D(10X13ME047),PRAKASH.N(10X15ME412),, YUVA PRASAD(10X15ME421), bona-fide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-18.It is certified that all 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.

14/06/2018 25611

Mr. SHIVASHESHADRI.M Dr. N.B.Doddapatar Dr.R.V.Praveena Gowda Part Cart With

Guide,Asst.Professor TOCE

Service H.Q.D. Dept. of ME & 580 085 Principal, TOCE

Dr. RV Prayeena Gowda Prin . Engineering The Oxford Collag Bommanahalli, Hosur Road Bengaluru-560 068

External Viva

Name of the Examiners

Signature with Date

BOMMANAHALLI, HOSUR ROAD, BANGALORE- 560068

(Affiliated to VTU & approved by AICTE)

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This to certify that the Project work entitled "TO STUDY MECHANICAL PROPERTIES OF ALUMINIUM ALLOYS RIENFORCED WITH SILICON CARBIDE & FLY ASH A HYBRID METAL MATRIX COMPOSITES" carried out by the students YOGESH KUMAR [10X14ME088], HANOCH NADAKATTIN [10X15ME404], RAHUL SAHUKAR [10X15ME413] & SHIVAMURTHY MATHAPATI [10X15ME417] of The Oxford College of Engineering, Bangalorein the partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Vishveswaraya Technology University, Belagavi, during the year 2017-18. The project report has been approved as it satisfies the academic requirements in respect of seminar prescribed for the said degree.

Signature of Guide

Mr. Suhas V

Signature of H.O.D The Content for the states of a GOTA CONTINUE

Princip TOCE

Comparison Dr.N.B.Doddapattar

External Viva

Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068 Signature with Date

Name of Examiners

1. Do AC.3 Doldoputtur 2. K. N. Shahishelow

HOSUR ROAD, BOMMANAHALLI, BENGALURU-68 (Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Mechanical Engineering



CERTIFICATE

Certified that the project entitled "FABRICATION OF CAR THEFT AND ACCIDENT PREVENTER"carriedoutbyGOWTHAM.D(10X13ME047),PRAKASH.N(10X15ME412),, YUVA PRASAD(10X15ME421), bona-fide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-18.It is certified that all 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.

H1/06/2018

Prof. & Head

Guide, Asst. Professor TOCE

Mr. SHIVASHESHADRI, M. S. Dr. N.B. Doddapatar Dr.R. V. Praveena Gowda H.O.D,Dept. of ME Principal, TOCE

Dr. RV Praveena Gowda

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

External Viva

Name of the Examiners

1. <u>Br. N.B. pockepcille</u> 2. K. N. Sharhisbelen

Signature with Date hele

Bommanhalli, Hosur Road, Bengaluru - 560068.

Department of Mechanical Engineering



Certificate

This is to certify that the Project Work entitled "DEVELOPMENT OF ALUMINIUM BASED COMPOSITE TO EVALUATE CORROSION AND WEAR BEHAVIOUR" carried out by NAGA VINAY (10X14ME054), QUAMRUL HASSAN(10X14ME061),RAGHU N(1OX14ME063), SRIDHAR SAI B (1OX14ME074) bonafide students of The Oxford College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagaum during the academic year 2017-2018. 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.

Mr. Prasad H Nayak

Dr. N. B. Doddapattar

Dr.R.V.Pravena Gowda Dr. Rrincipak TOCE owda

H.O.D OR & HEAD **Project Guide** Principal DEPARTMENT OF MECHANICAL ENGINEEThe Oxford College of Engineering OXFORD COLLEGE OF ENGINEERIN Bommanahalli, Hosur Road Bengaluru-560 068 EXTERNAL EXAMINATION OMMANAHALLE, BANGALORE-SCOOSS

Name of the Examiners

2. K. N. Shorhicholom

Signature with Date

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "Studies on Fabrication of Microbial Barrier Fabric for Respiratory Protection" carried out by Ms. ADITI M (USN 10X14BT001), Ms. AISHWARYA B (USN 10X14BT002), Ms. KRITHIKA VENKATESH (USN 10X14BT025), Mr. PAREEKSHITH (USN 10X14BT035), a bonafied student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visvesvaraya Technological University, Belagavi during the year 2017-18. 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.

Dr.Kusum Paul

for, Koume

Signature of the Guide

Dr.B. K Manjunatha Oper all

Dr. B.K. MANSUNATH Sommanahalli, Hoser Road Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 068.

External Viva

Name of the examiners

with day 13/6/18. Mul elias

Signature

Dr.R. PraveenaGowda

Dr. RV Praveena Gowda

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "STUDY OF ANTIBACTERIAL ACTIVITY AND GREEN SYNTHESIS OF GOLD NANOPARTICLES FROM ACTINOMYCETES" carried out by Ms. ALMAS FATHIMA (10X14BT003), Ms. DAANIYAH BELGAMI (10X14BT011), Ms. SS NAZIA SABA (10X14BT040) and Ms. SMRITI AURORA (10X14BT044) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visvesvaraya Technological University, Belagavi during the year 2017-18. 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.

Mr. Divakara R

Signature of the Guide

External Viva

Name of the examiners

Shobba. 13/6/18.

Dr. B K Manjunatha Dr. R V Praveena Gowda

Signature of the HOD Signature of the Principal Department of Biotechnology Dr. RV Provena Gow Bengalury 560 063. The Oxford College of Engineering

Dr. R V Proveena Gowda Principal The Oxford College of Engineering Bommanshalli, Hosur Road Bengaluru-560 068

Signature with date Br. yr. Maynath 13/6/1

(Affiliated to Visvesvaraya Technological University, Belgavi) BOMMANAHALLI, BANGALORE – 560068

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "PREPARATION OF MAGNETIC NANOPARTICLES AND THEIR SUBSEQUENT USE FOR SEPARATION / CONCENTRATION OF BACTERIA'' carried out by Ms. ANUSHA SINHA (USN 10X14BT005), Ms. INCHARA. V (USN 10X14BT019) and Ms. SHRUTHI. L (USN 10X14BT041), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visvesvaraya Technological University, Belgavi during the year 2017-18. 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

External Viva

Name of the examiners

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Dr. Signature of the HQPHA

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Dr. Signature of the Professor & Head Department of Biolechnology The Oxford College of Engineeringhe Oxford College of Bengaluru-560 068

Signature of the Principal Dr. RV Pravoena Gowda Principal te Oxford College of Engineering Bommanghalli, Hosur, Road Beng Signature will date

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "SIGNIFICANCE ANALYSIS OF TARGET PROFILE IN TUBERCULOSIS USING GENE INTERACTION AND INSILICO DOCKING APPROACH TO FIND POTENTIAL LIGANDS" carried out by Ms. APEKSHA, CHANDANA N, LAKSHMI S, MOUNIKA S, USN 10X14BT007, 1OX14BT010, 1OX14BT026, 1OX14BT031 a bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visveswaraya Technological University, Belgaum during the year 2017-18. 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

Dr. Professor & Head Department of Biotechnology The Oxford College of Engineering Represented to the of Engineering Bengaluru-560 068.

Signature of the Principal Dr. RV Praveena Gowda Principal Bengaluru-560 068

Signature with date

External Viva

Name of the examine hobba 13/6/18. Novegeleie

4/10

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "PURIFICATION, CHARACTERIZATION OF PLANT LECTINS AND IN VITRO STUDY OF THEIR BIOLOGICAL ACTIVITY" carried out by Ms. B. PREETHI (USN 10X14BT008), Ms. NISHA. S (USN 10X14BT034), Ms. PRIYADHARSHINI. M (USN 10X14BT037), Mrs. M. VAISHALI KRISHNA (USN 10X13BT017), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of the degree of Bachelor of Engineering in Biotechnology of the Visveswaraya Technological University, Belagavi during the year 2017-18. 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.

Thorne

Signature of the Guide

External Viva

Name of the examiners

1 Scholphe 13/6/18. 2. Dr. J.K. MaiyGroom

Signature of the HODATHA Signature of the Principal

Professor & Head Dr. RV Praveena Gowda Principal Department of Biotechnology The Oxford College of Enginering Bommanahalli, Hosur Road Bengaluru-560 0an Bengaluru-560 068

Signature with date

Davy Cer 18/6/18

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "METAGENOMIC STUDY OF Mycobacterium tuberculosis WITH HUMAN GENOME: HOST-PATHOGEN STUDY" carried out by Ms. B S RITHU (USN 10X14BT009), Mr. HARISH M (USN 10X14BT017), Ms. K SOUNDARYA VADHULAS (USN 10X14BT023), a bonafied students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visvesvaraya Technological University, Belagavi during the year 2017-18. 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.

Taniesres Chaudheri Signature of the Guide

External Viva

Name of the examiners with date

1. Dr 184. maganath 2. JShobha 13/6/18

Dignature of the J THOPIS THE OL

Professor & Head Princ Department of Biotechnone Oxford College of Engineering The Oxford College of Engine Bommanahalii, Hosor Road Bendaluru - 560 068 Bengaluru-560 088. Signature

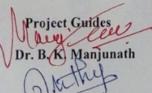
THE OXFORD COLLEGE OF ENGINEERING (Affiliated to Visvesvaraya Technological University, Belgaum) BOMMANAHALLI, BANGALORE-560068

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the project work entitled "Optimization of Bioremediation of PAHs in Used Engine Oil using fungal consortium" has been carried out by Drishya T D. (USN 10X14BT013), Durgashree C. (USN 10X14BT014), Sisira Anil. (USN 10X14BT043), SriRaksha H G. (10X14BT045) in partial fulfilment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belgaum during the year 2017 – 2018. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.



Mrs.K.Valarmathy Dept of Biotechnology

Page no. 2

Dr. B. K. Manjurath Dept of Biotechnology POCE.K MANJUNATHA Professor & Head Department of Biotechnology The Oxford College of Engineering Bengaluru-560 063.

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HOD

rincipal Dr.R.V.PraveenaGowda

Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommonshalli, Hosur Road Benneluru-560 068

Name of examiners)r yaquna

Signature with date 13/048 un

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "CONSTRUCTION OF CANCER DISEASOME THROUGH GRAPH THEORITICAL APPROACH" carried out by Mr. CHETAN (10X14BT016) and Mr. SHUJAAT AFZAL (10X14BT042), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of the degree of Bachelor of Engineering in Biotechnology of the Visveswaraya Technological University, Belagavi during the year 2017-18. 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.

Tanusree Chaudhuri

Signature of the Guide

NERature of the HOD Dr.

Professor & Head

The Oxford College of Engineering

Bengaluru-560 068.

Department of Biotechnol

Signature of the Principal Dr. RV Praveena Gowda

Principal

The Oxford College of Engineering

Bommanahalli, Hosur Road

Bendaluru - 560 088

External Viva

Name of the examiners

1 Shobha G. 2. Dr Sik. Marjarath

Signature with date

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "ISOLATION AND CHARACTERIZATION OF METHANOGENIC BACTERIA FROM LOCAL ENVIRONMENT AND COMPARATIVE STUDY OF KINETICS WITH TRADITIONAL BIOGAS PRODUCERS" carried out by Ms. HARSHITHA ANANTHARAMA USN (10X14BT018), a bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visvesvaraya Technological University, Belagavi during the year 2017-18. 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.

ignature of the Guide

Signature

Professor & Head Department of Biotechnology the Oxford College of Engineering he Oxford College of Engineering Bengaluru-560 068.

Signature of the Principal

Dr. RV Praveena Gowda Principal Bommanahalli, Hosur Road Bengalury-560 068

Signature with date

2 hoby 1316/18 1 Juny Luie 12/6

External Viva

Name of the examiners

1 Shokha.g. 2. Dr. Un maiguret

(Affiliated to Visvesvaraya Technological University, Belgaum) BOMMANAHALLI, BANGALORE – 560068 DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled " IN VITRO, IN VIVIVO, IN SILICO STUDIES ON THE PHYTOCONSTITUENTS OF THE PLANTS Gloriosa superba, Memecylon umbellatum, Pimenta dioica, AND Cyclea peltata. ".Carried out by Ms NIDA S KHAN, MADHUKINI.S, TAPASYA B SINGH, USN 10X14BT033, 10X14BT029, 10X14BT046, a bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visveswaraya Technological University, Belgaum during the year 2017-18. 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

Name of the examiners

1. Shobba G. 2. Dr. Ase. ropy censeli

Signature of the HOD

NOW

Signature of the Principal Dr. V Prevena Gowda

Dr. U.K. M. M. HA The Oxford College of Engineering External Viva Head Bommanahalii, Hosur Road Department of Biotechnology Bengaluru - 560 068 The Oxford College of Engineering

Bengaluru-560 068.

Signature with date 13/6/18

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

(Affiliated to VTU and approved by AICTE)



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project entitled "Odour Regulation- A Solution to Control Odour from Municipal Solid Waste Management Plant" carried out by our bonafide students

Karthik Kumar V	1OX14CV029
Justin K Mathews	1OX14CV027
Karthik H	1OX14CV028
Gowtham DH	10X14CV021

of Civil Engineering in partial fulfilment for the award of Bachelor of Engineering in The Oxford College of Engineering, Bengaluru of Visvesvaraya Technological University, BELAGAVI during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in 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

AMRUTH K Asst. Professor

Dr. AMARNATH K Dept. of Civil Engg. Tead of the Department

Dr. R V PRAVEENA GOWDA

Dr. RV Praveena Gowda Principal

Department of Civil Engineeringford College of Engineering University examiners Orford College of Engineeringengaluru - 560 068 Bangalore - 560 068. Name and signature of Examiner-2

Name and signature of Examiner-1

THE OXFORD COLLEGE OF ENGINEERING **BOMMANAHALLI HOSUR ROAD, BENGALUR-560068**

(Affiliated to VTU and approved by AICTE)



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project entitled "A study on preparation of feasibility report for implementing sradding bus techanology for banglore" carried out by our bonafide students

KUSHAL S	10X15CV401
NISARGA	1OX14CV022
BHARATH KUMAR	10X14CV12
PRABHU R	1OX14CV010

of Civil Engineering in partial fulfilment for the award of Bachelor of Engineering in The Oxford College of Engineering, Bengaluru of Visvesvaraya Technological University, BELAGAVI during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mr. Mahesh kumar S

Asst. Professor (Dept. of Civil Engg)

Asst. Professor

Dr. AMARNATH K Dept. of Civil Engg.

PRINCIPAI

Dr. R V PRAVEENA GOWDA

Dr. RV Praveena Gowda Principal

Tead of the Department Copartment of Civil Engineeringford College of Engineering

University examiners Oxford College of Euglineeringenoaluru - 560 068

1) RAKSHITHAJ

2) VENKATESHA. K.V

Signature BKALitha J

BOMMANAHALLI HOSUR ROAD, BENGALUR-560068

(Affiliated to VTU and approved by AICTE)



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project entitled "Analysis of structures using ansys, carried out by our bonafide students Staad-pro and Matlab"

RINKESH KUMAR	10X15CV400
PRAKHAR MANI	1OX14CV009
DEV ARAJ K HOMDRAM	10X14CV012

of Civil Engineering in partial fulfilment for the award of Bachelor of Engineering in The Oxford College of Engineering, Bengaluru of Visvesvaraya Technological University, BELAGAVI during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mr. Mahesh kumar

Asst. Professor (Dept. of Civil Engg)

Asst. Professor

0 0

Dr. AMARNATH K Dept. of Civil Engg.

PRIN CIPA

Dr. R V PRAVEENA GOWDA

Dr. RV Praveena Gowda Principal

Tead of the Department Copartment of Civil Engineeringford College of Engineering

University examinerse Oxford College of Engineering engalury - 560 068 Name of Examiners

External Viva

1) RAKSHITHAJ

2) VENKATESHA.K.V

Signature RokaLitha.J

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, BANGALORE- 560068



CERTIFICATE

This is to certify that the project work entitled <u>"STRENGTH STUDIES ON</u> <u>SILICA FUME BASED GEO POLYMER CONCRETE"</u> carried out by Ans babu P(10x15cv400), Praveen kumar S.R(10x15cv408), Kiran D(10x15cv406), Yashaswini B.N(10x14cv089) are bonafide students of "The Oxford College of Engineering". In partial fulfillment for the award of the "Degree of Bachelor of Engineering". Prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2017-2018. 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.

e Dr. Amarnath K Praveena Gowda Dr. Mr. Mahesh Principal H.O.D Asst. Professor (Dept. of Civil Engg) TOCE, Bangalore Department Dr. RV Praveena Gov da (Dept. of Civil Engg) Copartment of Civil Engineering Principal Oxford College of Engineeringford College of Engineering Bommanahalli, Hosur Ro ____lore-560 068. Bendaluru-560 068 External Examiner Internal Examiner

BOMMANAHALLI HOSUR ROAD, BENGALUR-560068

(Affiliated to VTU and approved by AICTE)



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project entitled "Experimental study of cold bonded ggbs carried out by our bonafide students ggbs aggregates utilized in concrete"

KISHORE DABBADI	1OX15CV408
NAIVEDYAK S	1OX14CV022
RAGHAVENDRA C B	1OX14CV008
SHRUTH SHRIG	10X14CV002

of Civil Engineering in partial fulfilment for the award of Bachelor of Engineering in The Oxford College of Engineering, Bengaluru of Visvesvaraya Technological University, BELAGAVI during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mr. Mahesh kumar

Asst. Professor (Dept. of Civil Engg)

Asst. Professor

1 h

Dr. AMARNATH K Dept. of Civil Engg.

PRINCIPA

Dr. R V PRAVEENA GOWDA

Dr. RV Praveena Gowda Principal

Tead of the Department

Copartment of Civil Engineeringford College of Engineering

University examines: Orford College of Engineeringengalury - 560 068 Name of Examiners External Viva

1) RAKSHITHAJ

2) VENKATESHA.K.V

Signature BKrLitha J

BOMMANAHALLI HOSUR ROAD, BENGALUR-560068

(Affiliated to VTU and approved by AICTE)



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project entitled "Stabilization of black

cotton soil using ggbs"

carried out by our bonafide students

ASHA S	1OX15CV408
RAJASHREE R	1OX14CV022
HARISH KUMAR B	1OX14CV008
SACHIN KUMAR G K	10X14CV002

of Civil Engineering in partial fulfilment for the award of Bachelor of Engineering in The Oxford College of Engineering, Bengaluru of Visvesvaraya Technological University, BELAGAVI during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in departmental 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

TOT I

Dr. Kanchangauri Assistant Professor

Dr. AMARNATH K Dept. of Civil Engg. [

PRINCIPAL

Dr. R V PRAVEENA GOWDA

Dr. RV Praveena Gowda Principal

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University examinerse Oxford College of Engineering engaluru - 560 068

External Viva

1) RAKSHITHAJ

Name of Examiners

2) VENKATESHA.K.V

Signature GBKyLitha J

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BOMMANAHALLI HOSUR ROAD, BENGALUR-560068

(Affiliated to VTU and approved by AICTE)



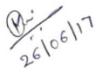
DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project entitled "Experimental suday on no fines concrete and coconut fibers reinforced concrete" carried out by our bonafide students

BASAV AR AJU N J	1OX14CV019
CHETHAN KUMAR	1OX14CV028
KIRAN S	1OX14CV 033
PAVITHRA V	10X14CV 029

of Civil Engineering in partial fulfilment for the award of Bachelor of Engineering in The Oxford College of Engineering, Bengaluru of Visvesvaraya Technological University, BELAGAVI during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in departmental library. The project report has been approved as it satisfies the academic requirements in respect of arolast work prescribed for the said degree.



Project Guide

n a 1

> Dr. Kanchangauri Assistant Professor

Dr. AMARNATH K Dept. of Civil Engg. Tead of the Department PRINCIPAL

Dr. R V PRAVEENA GOWDA

Dr. RV Praveena Gowda Principal

TOCE Activate Window: portment of Civil Engineering ford College of Engineering

University examiners Orford College of Engineering engalury - 560 068 Name of Examiners

External Viva

Signature

1) RAKSHITHAJ

2) VENKATESHA.K.V

A R H S.

BOMMANAHALLI HOSUR ROAD, BENGALUR-560068

(Affiliated to VTU and approved by AICTE)



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project entitled "Personal rapid transit -A modern approach carried out by our bonafide students to tackle bengalurus traffic problems"

PREETHAM K
NAGE GOWDA N
ROOPESHK
MARILING A S

10X14CV016 10X14CV034 10X15CV408 10X15CV409

of Civil Engineering in partial fulfilment for the award of Bachelor of Engineering in The Oxford College of Engineering, Bengaluru of Visvesvaraya Technological University, BELAGAVI during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in departmental library. The project report has been approved as it satisfies the academic requirements in respect of arolast work prescribed for the said degree.

DR. MALLESHAIAH

h a h

Asst. Professor

Dr. AMARNATH K Dept. of Civil Engg.

PRINCIPAL

Dr. R V PRAVEENA GOWDA

Dr. RV Praveena Gowda Principal

TOCE, BANGALORE

Tead of the Department Copartment of Civil Engineeringford College of Engineering University examiners Orford College of Engineering engalury - 560 068 Name of Examiners External Viva Signature 1) RAKSHITHAJ BKyLitha J 2) VENKATESHA.K.V

BOMMANAHALLI HOSUR ROAD, BENGALUR-560068

(Affiliated to VTU and approved by AICTE)



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project entitled "Study of geopolymer concrete with carried out by our bonafide students varying proportions and different types of curing

HARISH KUMAR B	1OX14CV016
SANJAY BARADWAJ.B	1OX14CV034
VINAY TAKKALAKI	10X15CV408
Y VISHNU VARDHAN	10X15CV409

of Civil Engineering in partial fulfilment for the award of Bachelor of Engineering in The Oxford College of Engineering, Bengaluru of Visvesvaraya Technological University, BELAGAVI during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in departmental library. The project report has been approved as it satisfies the academic requirements in respect of arolast work prescribed for the said degree.

DR. MALLESHAIAH

h 1 Ì1

Asst. Professor

TOCE, BANGALORE

Dr. AMARNATH K Dept. of Civil Engg.

PRINCIPAL

SV

Y

Dr. R V PRAVEENA GOWDA

Dr. RV Praveena Gowda Principal

Clead of the Department

Department of Civil Engineeringford College of Engineering University examinThe Oxford College of Engineeringengaluru - 560 068

Name of Examiners

External Viva

1) RAKSHITHAJ

2) VENKATESHA. K.V

Signature

THE OXFO	RD COLLEGE	OF ENGINEERING	
BOMMANAHALLI HOSUR ROAD, BENGALUR-560068			
		approved by AICTE)	
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DEPART	FMENT OF CIV	VIL ENGINEERING	
	CERTIFICA	<u>NTE</u>	
This is to certify that the project	t entitled "Experim	mental study on cellular form	
concrete and sawdust concr		carried out by our bonafide students	
Oxford College of Engineer BELAGAVI during the year 20 for internal assessment have be	ing, Bengaluru of 017-2018. It is certific een incorporated in the poproved as it satisfie	10X14CV018 10X14CV026 10X15CV403 10X15CV404 e award of Bachelor of Engineering in The f Visvesvaraya Technological University, fied that all corrections/suggestions indicated the report deposited in departmental library. ies the academic requirements in respect of	
IOW:	ford College of	gg. Dr. RV Praveena Gowda artment Principal Engineeringford College of Engineerin Bohimanaballi, Hosur Road f Engineeringenaaluru - 560 068 mal Viva Signature	ng
2) VENKATESHA. K.V		Venkot.M	

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BOMMANAHALLI HOSUR ROAD, BENGALUR-560068

(Affiliated to VTU and approved by AICTE)



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the project entitled "Reusing of domolished materials for carried out by our bonafide students pavement construction"

DATTATRI
DEEPAK DUBE
GOWTHAMN
MURALIDHARA S

1OX14CV051 10X14CV044 10X14CV048 10X15CV409

of Civil Engineering in partial fulfilment for the award of Bachelor of Engineering in The Oxford College of Engineering, Bengaluru of Visvesvaraya Technological University, BELAGAVI during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in departmental library. The project report has been approved as it satisfies the academic requirements in respect of analast work prescribed for the said degree.

Mrs. Vijava Gowr

14 h 6

Project Guide

Asst. Professor

Dr. AMARNATH K Dept. of Civil Engg.

PRINCIPAL

Dr. R V PRAVEENA GOWDA

Principal

TOCE, BANGALORE

Dr. RV Praveena Gowda

Tead of the Department

wopartment of Civil Engineeringford College of Engineering

University examiners Oxford College of Euglneeringengaluru - 560 068

1) RAKSHITHAJ

2) VENKATESHA. K.V

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DEPARTMENT OF CIVIL ENGINEERING 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)



Certified that the Project entitled <u>"STABILISATION OF WEAK SOIL BY USING</u> <u>LIME AS ADMIXTURE"</u> has been carried out by Yashavantha R (IOX14CV090), Ramesh C M (IOX15CV410), Sandeep Kumar L (IOX14CV411), Shrishail Nemagoudar (IOX15CV412), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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.

Dr.MAL

Assistant Professor (Dept.of Civil engg) Dramarna DH-K

Department of Civil Engineering The Oxford College of Engineering Bangateenalon 188 S.

Signature with Date

Dr.R.V.PRAVEENAGOWDA

Principal, TOCE

Name of the Examiners

2.____

1.

DEPARTMENT OF CIVIL ENGINEERING 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)



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Dr.MAL

Assistant Professor (Dept.of Civil engg) Dramarna DH-K

Department of Civil Engineering The Oxford College of Engineering Bangateenalon 188 S.

Signature with Date

Dr.R.V.PRAVEENAGOWDA

Principal, TOCE

Name of the Examiners

2.____

1.

Hosur Road, Bommanahalli, Bengaluru - 560068 (Affiliated to Visvesvaraya Technological University, Belagavi) DEPARTMENT OF AUTOMOBILE ENGINEERING



CERTIFICATE

This is to certify that the Project titled "TRANSMISSION OF POWER TO BICYCLE BY USING CONSTANT FORCE SPRING" has been carried out by KUMARA V (10X14AU039), PRATHAP G S (10X14AU024) and TANVEER KHAN (10X14AU039), bonafide student of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Automobile Engineering of Visvesvaraya Technological University, Belgaum during the year 2017 - 2018.

It is certified that all 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 of Bachelor of Engineering.

Signature of Guide

External Examiners

ignature of Principal

Prasanna S M

Propr Raju B Read Department of Automobile Engineering The Oxford Compe of Engineering Boomment's, Hosur Road

Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengalury - 560 068

Dr R V PraveenaGowda

Name and Signature of the examiners with date

Dr. Roger BK 1. Shridhas Kasee

DEPARTMENT OF AUTOMOBILE ENGINEERING



CERTIFICATE

Certified that the Project Report on topic "EXPERIMENTAL INVESTIGATION ON MECHANICAL CHARECTERISTICS OF GLARE LAMINATES (AL 2024 T3) WITH DIFFERENT STACKING SEQUENCES" has been successfully presented at The Oxford College of Engineering by Abbilash J Inamdar (10X14AU001), Akshaykumar (10X14AU002), Brahma Teja M (10X15AU404), Pramodha S (10X15AU409) in partial fulfillment of the requirements for the VIII Semester degree of Bachelor of Engineering in Automobile Engineering of Visvesvaraya Technological University, Belgaum during academic year 2017-2018. 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 Seminar work for the said degree.

Dr. Raiu [Project Guide] Head F Head of the Department Department of Automobile Engineering Department of Automobile Engineering The Oxford Crame of Engineering The Oxford College of Engineering Bommana Hosur Road ommonare'l, Hosur Road [EXAMINER] Dr. Roy u BEDR. R. PRVEEN GOWDA Praveena Gowda Ratt rincipal Principal 2. Entrunal Examinar Oxford College of Engineering Shidhal Bengaluru-560 068

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

Department of Automobile Engineering



CERTIFICATE

This is to certify that the Project titled "Simulation of Control of High beams based on the speed of the vehicle" has been carried out by Keerthi Narayana Prasad N (1OX14AU011), Sumanth M P (1OX14AU012), Narayanan I (10X14AU017) bonafide student of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Automobile Engineering of Visvesvaraya Technological University, Belgaum during the year 2017 - 2018.

It is certified that all 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 of Bachelor of Engineering.

Signature of Guide

Priyankar R Dhole

External Examiners

Name and Signature of the examiners with date

DS. Shridhas Kulge

Rayn. Br

Signatu

Signature of Principal

Professor & Head Department Brind Bolle Engineering The Oxford College of Engineering Bommanehalli, Hosur Road

Dr R V Praveena Gowda Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road angaluru-560

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

Department of Automobile Engineering



CERTIFICATE

This is to certify that the Project entitled "TROUBLESHOOTING OF TWO WHEELER FUEL INJECTION VEHICLES BY IMPLEMENTING UNIVERSAL DIAGNOSTIC TOOL ES-300" has been carried out by KARAN V (10X15AU406), SHUBHAM PAL (10X14AU033), SANDEEP YADAV N (10X14AU027), VINAY S (10X15AU411) bonafide student of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Automobile Engineering of Visvesvaraya Technological University, Belgaum during the year 2017 - 2018.

It is certified that all 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 of Bachelor of Engineering.

Signature of Guide e of Principal Signatur Signatu **Mr MARUTHI S B** Dr. RAJU B R Dr. R V Praveena Gowda The Oxi Ingineering FIGICE & Head Bom Hosur Road Department of Automobile Engineering The Oxle d Coll ge of Engineering Name of Examiners: 0 ature with Date: Sign Hosur Road

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

DEPARTMENT OF AUTOMOBILE ENGINEERING



CERTIFICATE

This is to certify that the project entitled "PNEUMATIC PRESSURISED VEHICLE" has been successfully presented by JOSHUA N (10X14AU009), NIKHIL M KUMAR M.V. (IOX14AU035), ABHISHEK REDDY B.A. (1OX14AU020), SUMAN (IOX15AU400) bonafide students of THE OXFORD COLLEGEOF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Automobile Engineering of the Visveswaraya Technological University, Belgaum, during the year 2017-2018.

The project report has been approved as it satisfies the academic requirements in respect of Seminar prescribed for the said Degree of Bachelor of Engineering.

Signature of Guide

Mr. PRASANNA S M

Name of Examiner

Roger BK

Signature of Hollad

Department of Automobile Engineering Bommaniaha''i, Hosur Road

Signature of Principal

The OurdRAILDEBREngineering Dr. R.V. PRAVEENA GOWDA Dr. RV Praveena Gowda 10 000 Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

External Viva

Signature MBR 15/6/18

Hosur Road, Bommanhalli, Bengaluru - 560068 (Affiliated to Visvesvaraya Technological University, Belagavi) DEPARTMENT OF AUTOMOBILE ENGINEERING



CERTIFICATE

Certified that the project work entitled "INVESTIGASTION ON MECHANICAL AND TRIBOLOGICAL CHARACTERIZATION OF NANO PARTICULATE FILLED FIBER REINFORCED HYBRID COMPOSITES FOR **AUTOMOBILE** APPLICATIONS" carried out by Mr. SHREYAS SHENOY (10X14AU032), Mr. SOMANNA K K (10X14AU034), Mr. SUPREETH SHETTY(10X14AU038) and Mr. VASUKI K (10X14AU042), bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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.



Dr. RAJU B R Professor & Head Department of neering Theokford Autemobile Engineering Bommanahalli, Hosur Road Bangalore - 560 068.

Name of Examiners & Dr. Raju BR Dr. HIN Fursen

Principal

Dr. PRAVEENA GOWDA Dr. RV Praveena Gowda

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

Signature with Date

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

Department of Automobile Engineering



CERTIFICATE

This is to certify that the project entitled "DESIGN DEVOLOPMENT OF ELECTROSTATIC PRECIPITATOR ON ELECTRIC VEHICLES" has been carried out by ANIL NR (10X14AU004), B.S VINOD KUMAR (10X14AU007), G DINESH KIUMAR (10X14AU008) and NIKHIL MK (10X14AU019) bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Automobile Engineering of Visvesvaraya Technological University, Belagavi during the year 2017 - 2018.

The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

Signature of

Dr. RAJU B R

Professor & Head Department of Automobile Engineering The Oxford College of Engineering Bommanahalli, Hosur Road Name of the Examiners

Signature

Signature of Principal

Dr. RAJU B.R Dr. R V. Professor & Head Dr. 1

Dr. R V. PRAVEENA GOWDA Dr. R V Praveena Gowda Principal

Ilas Kule

The Oxford Cellage of Engineerin The Oxford College of Engineerin Bommanahalli, Hosur Road Bommanahalli, Hosur Road Silengalore - 560 068. Silengalore - 560 068. Signature with Date 68

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

Department of Automobile Engineering



CERTIFICATE

This is to certify that the seminar work entitled "TWO WHEELED SELF BALANCING ROBOT" has been carried out by ROHIN BABY JOHN (10X13AU026), SREERAM KJ (10X12AU044), SOORAJ KUMAR (10X13AU044), GAUTHAM T (10X12AU023) a bonafide student of the oxford college of engineering, Bangalore in partial fulfilment for the award of Bachelor of engineering in AUTOMOBILE ENGINEERING of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2017-2018

Signature of Guide

Mr. Maruthi.S.B

Signature

Signature of Principal

Dr.B.R.Raju **Professor & Head** Department of Automobile Engineering The Oxford College of Engineering Bommanahalli, Hosur Road -05 000

Dr.R.V.PRAVEENAGOWDA Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Signalare with tate68

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Name of Examiner

1. Dr. Rajn BR 2. D.S. Sheri dhar Kurte

Hosur Road, Bommanahalli, Bengaluru - 560068 (Affiliated to Visvesvaraya Technological University, Belagavi) **DEPARTMENT OF AUTOMOBILE ENGINEERING**



CERTIFICATE

Certified that the project work entitled "INaNALYSIS OF TURBOCHARGER FOR REDUCING TURBOLAG" carried out by Mr. MALCOM J FERNANDES (1OX14AU013). Mr. NATESH BIRUGU (10X14AU018). Mr. PRAJWAL R(10X14AU023) and Mr. THRILOCHAN R K (10X14AU040), bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. 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 Guide

Mr. PRIYANKAR R DHOLE

Name of Examiners

Signature of Principal

Dr. RAJUBR d Dr. R V. PRAVEENA GOWDA Department of Automobile EngineeringDr. RV Praveena Gowda The Oxford College of Engineering Bommanahalli, Hosur Road 000

Principal The Oxford College of Engineering Bommanahalli, Hosur Road

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Roper Bo

Hosur Road, Bommanahalli, Bengaluru - 560068

(Affiliated to Visveswaraya Technological University and approved by AICTE)

DEPARTMENT OF AUTOMOBILE ENGINEERING



CERTIFICATE

Certified that the project work entitled **"FABRICATION OF ELECTRICAL MOTORBIKE"** carried out by Mr. SUNIL KUMAR J G (10X14AU037), Mr. ABHISHEK Y C (10X15AU401), Mr. ANAND GOWDA (10X15AU402), and Mr. AVINASH B (10X15AU403), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Automobile Engineering of Visveswaraya Technological University. Belagavi during the year 2017-2018. It is certified that all 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 of Bachelor of Engineering.

Project Guide

Mr. Sandeep Kumar K Chavan

Assistant Professor

inci

Dr. RV Praveena Gowda RV TOCE pal The Oxford College of Engineering Bommanahalli, Hosur Road Bendaluru - 560 068

Name of Examiners , Rogen Bok

Professor & Head Department of Automobile Engineering Head of the Departmentring Born and Hosur Road

Dr. Raju B R

Dept. of Automobile

Signature with Date

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

Department Of Mechatronics Engineering



This is to certify that the project work entitled "AUTOMATED BARREL BORE BRUSHING PROCESS" is a bonafied work carried out by ABHISHEKA S (10X14MT001), PRADEEP E S (10X14MT029), SOUNDARYASRI K S (10X14MT042), and SHRINIVAS D C (1OX15MT407) in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2017-2018. 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 Mr. ASHOKA T K

Prof. & HOD Department of the Hellatronics Signature of the Principal The Oxford College of Engineering Bonniananom Hicky MABEER BOBED P. R. P. P. P. R. P. BRANEBOOW da

Asst. Professor Dept. of MTE, TOCE

Professor and HOD Dept. of MTE, TOCE

GOWDA The Oxford College of Engineering Bomman Bringipalosur Road Bengaluru-560 068 TOCE

Name of the Examiners

1Dr. JAYANTHI KUMARI T.L

2. Chandra Phethatil

Signature with date

SC 14/06/18

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

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

This is to certify that the project work entitled **"FABRICATION OF MANLESS DEFENCE ROBOT"** has been carried out by Mr. Venkatesh U C(10X15MT408), Mr. Basavaraj (10X13MT401), Mr Manjunath G(10X14MT025), Mr Ananta Narayan Biswal(10X14MT007), bonafide students of **The Oxford College of Engineering, Bangalore** in partial fulfilment for the award of **Bachelor of Engineering in Mechatronics Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year **2017-2018**.

It is certified that all corrections/suggestions indicated for the internal assessment has been incorporated in the Report deposited in the Departmental Library. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering degree.

Signaturo & HOD Dr. JAPFAMent of Machatronica The Oxford College of Engineering Professor and HOBaDent of MTE, OBSCE

Name of the Examiners 1. JAYAN THE KUNAA/ TOL 2. Chandras helpane

Signature of the Principal

Dr. R V PRAVEENA GOWDA Principal, TOCE Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur hobate

The Oxford College of Engineering (Affiliated to Visvesvaraya Technological University, Belgavi) Bommanahalli, Bangalore-560068

Department of Mechatronics



Certified that the project entitled "AUTONOMOUS AERIAL VEHICLE FOR POLLUTION MONITORING" carried out by Mr CRITON JOSE K with USN 10X14MT011, Mr. MANU THOMAS with USN 10X14MT026, Mr. ROHAN MAGNUS GOVEAS with USN 10X15MT406, Mr. VISHNU RAJENDRAN with USN 10X14MT047 are the bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2017-2018.

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 in respect of project work prescribed for the said degree.

Asst. Professor, Dept of MTE

External Viva

Name of Examiners 1. <u>Dr. JAYANTH KUMARI T.</u> 2. <u>Chandros helehogi.</u>

ASKIN

Dr. JANANOTHAKUQARI T R

Dr. RV PRAVEENA GOWDA

Department of Mechatronics The Oxford Oxford Oxford Engineering Bommanahalli, Bangalore 560 068 Principal The Oxford College of Engineering The Oxford College of Engineering

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

Signature with date

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Hosur Road, Bommanahalli, Bengaluru-560068, Karnataka

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

Certified that the project entitled " MULTIFARIOUS ENDEAVOUR AGROBOT " carried out by Mr. Chetan B.U with USN 10X14MT010, Mr. Jayanth R. with USN 1OX14MT020, Mr. Dhananjaya Kumar G.K with USN 1OX15MT402, Mr. Shivarjun Kori K.R. with USN 10X15MT411, are the bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2017-2018.

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Signature of Guide Mr. Rajesh B

Signature of Principal atronics ABLERINDR. R V PRAVEENA GOWDA The Oxford Bommunahalli, Bair alore 560 068 Dr. RV Praveena Gowda Bommunahalli, EXTERNAL VIVA-VOCE Principal

Name of the examiners

1. D.G. SAYANTHY KUMARIT.R. 2. Chanchashekhar.L

The Oxford College of Engineering Bom Signature with datead Benaziuru - 560 068

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

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "AUTOMATIC PESTICIDE SPRAYER WITH IMAGE PROCESSING" has been carried out by Mr. JAYA KRISHNA A (10X14MT019), Mr. PRAJWAL N (10X14MT030), Ms. SUMANA U (10X14MT044). Mr. V BALASUBRAMANYA (10X14MT045) bona fide students of The Oxford College Of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018.

It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental Library. The project report has been approved as it satisfies the academic requirements in respect project work prescribed for the Bachelor of Engineering degree.

Signature of Guide

Mr. RAJESH B

Asst. Professor Dept. of MTE, TOCE

Signature of the HOD Dr. JAYANTHI KUMARI T R

Prof. & HOD Department of HOD The Oxford College of Englanding Bommanahalli, Hosur Road Bommanahalli, Ba Vivar Voe 068

the **Brincipal** RAVEENA GOWDA raveena Gowda

Principal in OCE Bengaluru-560 068

Name of the Examiners 1. Dr. JAYANTHY. KUMARL T.R 2 Chandrashellinal.

Signature with Date 1014/6/18

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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 project work entitled "DESIGN OF ELECTRO MECHANICAL LINEAR ACTUATOR" has been carried out by Ms. GAJALAKSHMI K (10X14MT015), Mr. VIJAYA KUMAR E (10X15MT410), Mr. VISHAL U TERADALE (10X15MT410), bonafide students of The Oxford College Of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018.

It is certified that all corrections/suggestions indicated for the internal Assessment has been incorporated in the Report deposited in the Departmental Library. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering degree.

Signature of Guida1 5/18.

Mr. ASHOKA T K

Asst. Professor

Dept. of MTE, TOCE

Signedure of the HODechatronis Signature of the Principal

The Oxford College of Engrange Bommanahalli, Banaslore 550 068 Dr. JAYANTHIKUMARI T R Dr.

Dr. RIV PRAVBENAL COWDOL Principal The Principal OCEOI Engineering

Bendaluru-560 068

nahalli, Hosur Road

Professor and HOD

Dept. of MTE, TOCE

External Viva-Voce

Name of the Examiners

2 Chandraghekhad. L

Signature with Date eli-L 15/06/18

Hosur Road, Bommanahalli, Bengaluru-560068, Karnataka

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

Certified that the project entitled "MULTIFARIOUS ENDEAVOUR AGROBOT " carried out by Mr. Chetan B.U with USN 10X14MT010, Mr. Jayanth R. with USN 10X14MT020, Mr. Dhananjaya Kumar G.K with USN 10X15MT402, Mr. Shivarjun Kori K.R. with USN 10X15MT411, are the bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2017-2018.

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 in respect of project work prescribed for the said degree.

Signature of Guide

Mr. Rajesh B

Dr. JAVANTHI KUMARI T R. Dr. Department of Mechatronics The Oxford College of Englishing Bommunanant, Bargalore VIVA-VOCE

Name of the examiners

1. Dr. JAYANTHI KUMARI T.R.

2. Chardrashelphant,

re of Phincipal igna

Dr. R V PRAVEENA GOWDA Dr. R V Praveena Gowda Principal

The Oxford College of Engineering Bo**Signature withdate**Road Benasiuru - 560 068

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

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

to certify that the project work entitled "IOT BASED HOME This is AUTOMATION SYSTEM USING MULTIPLE STAGE SECURITY" has been carried out by Mr. Dinesh D V (10X14MT013), Mr. Kishan M S (10X14MT023),

Mr. Siddharth S Maradi (IOX14MT041), Mr. Narendra C (IOX15MT403), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018.

It is certified that all corrections/suggestions indicated for the internal Assessment has been incorporated in the Report deposited in the Departmental Library. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering degree.

S.N. Row into

Signature of Guide

Ms. RANI AISHWARYA S N Asst. Professor Dept. of MTE, TOCE

The OxfoProfessor and HOD Buning Pepr of MTE, TOCE

Dr Signature of the Principal Dr. JAYANTHIKUMARI TR UtheDD Row RRAVEENA GOWDAing Bomman Principal Sur Road Bendal HOCE 068

Name of the Examiners 1.DR. JAYANTHI KUMARI T.L 2. Chandrayherhog.L

Signature with VSIC-15/06/18 ch. L. 15/06/18

The Oxford College of Engineering (Affiliated to Visvesvaraya Technological University, Belgavi) Bommanahalli, Bangalore-560068

Department of Mechatronics



Certified that the project entitled "SMART MIRROR USING RASPBERRY PI " carried out by Mr. AKHIL FRANCS with USN 10X14MT004, Mr. ATHUL PREMRAJ with USN 10X14MT009, Mr. SANKEERTH SOMASHEKHARAN with USN 10X14MT036, are the bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2017-2018.

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 in respect of project work prescribed for the said degree.

Burgo

MHANNAND CHARLOT RS DISR Y

Mr. RAVI S JADHAV Oxford College of Engineering The Asst. Professor, Dept of MTE Bommanaball, BaiQBiof 500 068The Oxford Colloce of E

ngineering Bommanahalii, Hosur Road Bandaluru-560 068

External Viva Name of Examiners AMANCHI RUMARI TIR 2. Chandrophelehar.L

Signature with date 141061B

VEENA GOWDA

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 project work entitled "IOT BASED STREET LIGHT MONITORING AND ACCIDENT ALERT SYSTEM" has been carried out by Ms Divya P (1OX14MT014), Mr. Ameersohel M Nadaf (1OX15MT400), Mr. Chandan (1OX15MT401), Mr. Rasidahmad Choudari (1OX15MT405) bonafide students of The ĸ Oxford College Of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018.

It is certified that all corrections/suggestions indicated for the internal Assessment has been incorporated in the Report deposited in the Departmental Library. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering degree.

burners

Signature of Guide

Mr. RAVI S JADHAV

Asst. Professor

Dept. of MTE, TOCE

Signature of the Ht DD

Department of Mechatronics The Oxford College of Engineering

Signature f the Principal

BORNHANATH BEUMBARE BOO OGER. R V PRAVEENA GOWDA

Professor and HOD

Dept. of MTE, TOCE

DE RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalii, Hosur Road Bengaluru-560 068

External Viva-Voce

Name of the Examiners

1 DD. JAYANTH KUMARI T.R. 2. Chandray helen of L

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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 project work entitled "DESIGN AND FABRICATION OF LAKE CLEANING MACHINE" has been carried out by Mr. Hegde Manoj (10X14MT017), Mr. Mohammed Ehsan (10X14MT027), Mr. Sharan Y (10X14MT038) and Mr. Shawn Braganza (10X14MT039), bonafied students of The Oxford College Of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018.

It is certified that all corrections/suggestions indicated for the Internal Assessment has been incorporated in the Report deposited in the Departmental Library. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering degree.

Signature of Guide Mr. RAJESH B

Mr. RAJESH B Asst. Professor Dept. of MTE, TOCE

Signature of the Principal Dr. P. P. P. AVEENA GOWDA The Oxferd Solie and MODers and Principal, Bommanahalli, BRE, TOCE See US Oxford CoTOCE of Engineering Bommanahalli, Hosur Road

Name of the Examiners

Benaaluru-560 068 Signature with Date

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1. Dr. JAYAN THE KUMARI TO 2. Chandrophelehar. C

Hosur Road, Bommanahalli, Bengaluru-560068, Karnataka

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

Certified that the project entitled "RAILWAY TRACK CRACK DETECTION ROBOT" carried out by Mr. BHARATH G with USN 10X13MT011, Mr. N PRAVEEN with USN 10X14MT407, Mr. NAYAN S L with USN 10X14MT409, are the bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2017-2018.

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 in respect of project work prescribed for the said degree.

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Mrs. PREMALA

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Dr. JAYANT HKUMARHTR Department of * The Oxford Colleg-Bommunahalli, Barge

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Dr. PRAVEENA GOWDA Dr. RV Prave Principal The Oxford College of Engineering EXTERNAL VIVA-VOCE Bommanahalli, Hosur Road

Name of the examiners

1. Dr. JACANTHY KUMPRI TR

2. Chandraphelihard

Signature with date

Chil 14/06/18

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CERTIFICATE

SOLAR This is to certify that the project work entitled "AUTOMATIC TRACKER SYSTEM" has been carried out by Mr. AMAR K (10X14MT005) Mr. MAHANTESH M S (10X14MT024), Mr. RAHEJA HARSH(10X14MT033) Mr. SHRIRAM K (10X14MT040), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for the internal Assessment has been incorporated in the Report deposited in the Departmental Library. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering degree.

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Signature of Guide Ms. RANI AISHWARYA S N Asst. Professor Dept. of MTE, TOCE

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Name of the Examiners 1.Dr. JAYAN FHI KUMARI TIL

2. Chandrophelenan.L

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CERTIFICATE

This is to certify that the project work entitled "SMART WIRELESS AUTONOMOUS ROBOT FOR LANDMINE DETECTION WITH WIRELESS CAMERA (SWARLDWC)" has been carried out by Mr. Kiran S Patil (10X14MT022), Ms. Monica M (10X14MT028), Mr. Yogesh H K (10X14MT050) bonafide students of The Oxford College Of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018.

It is certified that all corrections/suggestions indicated for the internal Assessment has been incorporated in the Report deposited in the Departmental Library. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering degree.

Signature of Guide Mrs. RAJESWARI.M

Asst. Professor Dept. of MTE, TOCE

Signature of the HOD

Drskr Bresoft Briteinala Dr. JAYANTHIKUMARI T R Dr. R VIRAMELINA The Oxford COWDA Engineering

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Bomman Principatour Road Professor and HOD Departmentre, Tochatronics The Oxford College of English delag Bommanahalli, Banalore 560 068

Name of the Examiners

Dr. JALANTEHT KUMPRC TO

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CERTIFICATE

This is to certify that the project work entitled "MULTIPURPOSE WIRELESS MOBILE ROBOTIC ARM" has been carried out by Mr. Amin Fazal Ahmed (10X14MT006), Mr. Srinidhi Chandra (10X14MT043), Mr. Venkatesh Kumar (10X14MT046), and Mr. Vivek Mohan (10X14MT049) bonafied students of **The Oxford College Of Engineering, Bangalore** in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for the Internal Assessment has been incorporated in the Report deposited in the Departmental Library. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering degree.

Signature of Guide

Signature of Guide Mr. RAJESH B Asst. Professor Dept. of MTE, TOCE

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Signature of the Principal Dr. R.V PRAVEENA GOWDA Dr. R.VPfinginahna Courda

Dr. R VPFingipabna Gowda

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Name of the Examiners

1. Dr. JAYANTHY KUNANTIN

2. Chandray hebbody L

Signature with Date

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Chil 14/06/2018

The Oxford College of Engineering (Affiliated to Visvesvaraya Technological University, Belgavi) Bommanahalli, Bangalore-560968

Department of Mechatronics



Certified that the project entitled "SMART MIRROR USING RASPBERRY PI" carried out by Mr. AKHIL FRANCS with USN 10X14MT004, Mr. ATHUL PREMRAJ with USN 10X14MT009, Mr. SANKEERTH SOMASHEKHARAN with USN 10X14MT036, are the bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2017-2018.

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 in respect of project work prescribed for the said degree.

Mr. RAVI S JADHAV Asst. Professor, Dept of MTE Department of Aschatronics The Oniord College of Engineering Bommanahalli, Bangalore 560 068 Dr. JAYANTHIKUMARI T R Dr

Prof. &/HOD

Professor & HOD of MTE

Dr. R V PRAVEENA GOWDA Dr. R V Praveena Gowda Principal JOCE

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Name of Examiners 1-DF. JAYAN CH KUMAR(70 2. Chards alle khogy (____

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This is to certify that UMAR HAYAT bearing USN 10Y16MBA64 is a bonafide student of master of business administration course of the institute 2016-2018, affiliated to Visvesvaraya technological university, Belgaum. Project report on "TRAINING AND DEVELOPMENT" is prepared by him under the guidance of Mr. Gokul G. Assistant Professor, MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belgaum, and Karnataka.

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CERTIFICATE

This is to certify that **SYED ABID ABDUL AHAD** bearing USN: **10Y16MBA59** is a bonafide student of master of business administration course of the institute 2016–2018, affiliated to Visvesvaraya technological university, Belgaum. A project report on **PERFORMANCE APPRAISAL AT QUINNOX PVT. LTD., BANGALORE** is prepared by him under the guidance of **MR. GOKUL G., ASSISTANT PROFESSOR,** MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belgaum, and Karnataka.

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This is to certify that NIKITHA PREM MATHEW bearing USN 10X16MBA60 is a bonafide student of Master Of Business Administration course of the institute 2016–2018, affiliated to Visvesvaraya technological university, Belagavi. Project report on "A STUDY ON EFFECTIVENESS OF RECRUITMENT PROCESS AT HEALTHCARE AT HOME PVT. LTD" is prepared by her under the guidance of P. Chandrika Reddy, Associate Professor MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that GOPALAKRISHNAN A bearing USN 10Y16MBA14 is a bonafide student of Master of Business Administration course of the institute 2016-2018, affiliated to visvesvaraya Technological University, Belgaum. Internship report on "PERFORMANCE ANALYSIS OF MUTUAL FUNDS AT DESTIMONEY SECURITIES PVT LTD" is prepared by him under the guidance of Asst. Prof. Richa Tiwari, in partial fulfilment of the requirement for the award of the Degree of Master of Business Administration of Visvesvaraya technological University, Belgaum, and Karnataka.

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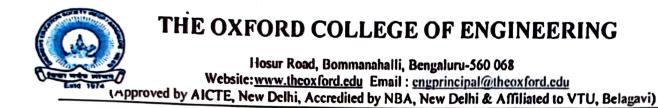
CERTIFICATE

This is to certify that AKSHAY KASHINATH PONDEKAR bearing USN 10X16MBA03 is a bonafide student of master of business administration course of the institute 2016–2018, affiliated to Visvesvaraya technological university, Belagavi. Project report on "A STUDY ON WORKING CAPITAL MANAGEMENT AT ARUNACHALESHWARA TRANSLOGISTICS INDIA PRIVATE LIMITED" is prepared by him under the guidance Of DR. JAMES THOMOS, Head of the Department, MBA department, in partial fulfilment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, and Karnataka.

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This is to certify that SANTHOSH REDDY.C bearing USN 10Y16MBA40 is a bonafide student of Master of Business Administration course of the institute 2016–2018, affiliated to Visvesvaraya Technological University, Belagavi. Project report on "A STUDY ON CHANNEL MARKETING STRATEGIES AT COMPACT INNOVATION AVENUE, BANGALORE" is prepared by him under the guidance of Mrs.Savitha K.P, Asst Prof, MBA department in partial fulfillment of the requirement for the award of the degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that MARUTHIPRASAD M bearing USN 10X16MBA50 is a bonafide student of Master of Business Administration course of the institute 2018–2019, affiliated to Visvesvaraya Technological University, Belagavi. The project report on "A STUDY ON LOANS AND ADVANCES AT CENTRAL BANK OF INDIA" is prepared by him under the guidance of P.CHANDRIKA REDDY Associate prof MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that PAVITHRA LAZAR bearing 10X16MBA64 is a bonafide student of Master of Business Administration course of the Institute 2016-2018, affiliated to Visvesvaraya Technological University, Belagavi. Internship report on "A STUDY ON RISK AND RETURN ANALYSIS AND COMPARITIVE STUDY OF EQUITY MUTUAL FUNDS AT PL INDIA PVT LTD" is prepared by her under the guidance of Ms. PAROMITA BOSE, ASSOCIATE PROFESSOR MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that SAPNA bearing USN: 10X16MBA77 is a bonafide student of Master of Business Administration course of the institute 2016–2018, affiliated to Visvesvaraya Technological University, Belagavi. Project report on "EFFECTS OF FREE CASH FLOW ON PROFITABILITY FIRMS" at MAHINDRA HOME FINANCE is prepared by her under the guidance of Prof. UMA SHARMA, ASSISTANT PROFESSOR, MBA department, in partial fulfillment of the requirement for the award of the degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, and Kamataka.

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This is to certify that SHIVANI D PATIL bearing 10Y16MBA50 is a bonafide student of Master of Business Administration course of the institute 2016–2018, affiliated to Visvesvaraya technological university, Belagavi. Project report on PERFORMANCE ANALYSIS OF CAMPUS RECRUITS AT GLOBAL EDGE SOFTWARE LTD. is prepared under the guidance of CHIKKE GOWDA K.G Asst. professor, MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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CERTIFICATE

This is to certify that DEEPAK RAO KR bearing USN: 10X16MBA20 is a bonafide student of Master of Business Administration course of the Institute during the year 2016-2018. affiliated to Visvesvaraya Technological University, Belgaum. Project report on STUDY OF CONSUMER BEHAVIOR ON LIFE INSURANCE POLICY AT IDBI FEDERAL BANK is prepared by him under the guidance of Dr. BALA KOTESWARI. ASSISTANT PROFESSOR, MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belgaum, and Karnataka.

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This is to certify that SAHANA SHEKHAR bearing 10Y16MBA37 is a bonafide student of Master of Business Administration Course of the institute 2015–2017, affiliated to Visvesvaraya technological university, Belgaum. Project report on "RECRUITMENT AND SELECTION" is prepared by him under the guidance of K. P SAVITHA, ASSISTANT.PROF, MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belgaum, and Karnataka.

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This is to certify that NISHMITHA HP bearing 10X16MBA61 is a bonafide student of Master of Business Administration course of the institute 2016-2018, a affiliated to Visvesvaraya technological university, Belgaum. Project report on " A STUDY ON is prepared by EMPLOYEE ENGAGEMENT" AT KSBL SECURITIES LIMITED her under the guidance of Mrs. PAROMITA BOSE, ASSISTANT PROFESSOR, MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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ature of Principal 140D, Dept. of Business Administration RV Praveena Gowda The Oxford College of Engineering Principal Bomnionshalli, Hosar Road he Oxford College of Engineeri Bancalore 560 068 Bommanahalli, Hosur Road

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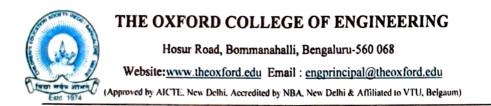
This is to certify that JUHI CHOUBEY bearing USN : 10Y16MBA16 is a bonafide student of Master of Business Administration course of the institute 2016–2018, affiliated to Visvesvaraya Technological University, Belgaum. Project report on "A STUDY ON 360 DEGREE PERFORMANCE APPRAISAL" at EVOLET TECHNOLOGIES, RT NAGAR, BANGALORE is prepared by her under the guidance of Ms RICHA TIWARI, ASSISTANT PROFESSOR MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belgaum and Karnataka.

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Signature of Principal Dr RV Praveena Gowda Principal he Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068



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This is to certify that ASHWIN KUMAR C, bearing USN: 10X16MBA13 is a bonafide student of Master of Business Administration course of the institute 2016-2018, affiliated to Visvesvaraya technological university, Belagavi. Project report on "A STUDY ON BUDGETORY CONTROL SYSTEM IN REFERENCE WITH RAILWHEEL FACTORY is prepared by him under the guidance of DR. JAMES THOMAS, HOD, MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, and Karnataka.

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This is to certify that KIRAN KUMAR B bearing (USN: 10X16MBA38) is a bonfide student of Master of Business Administration course of this institute for the academic year 2016-2018, affiliated to Vishvesvaraya Technological University, Belagavi. Project report on "A STUDY ON ASSETS AND LIABILITY MANAGEMENT, THE KARNATAKA STATE FINANCIAL CORPORATION" is prepared by him under the Guidance of Prof. A. SAHANA, MBA Department, in partial fulfilment of the requirement for the award of the Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi.

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This is to certify that SINDHU S bearing USN 10Y16MBA54 is a bonafide student of Master of Business Administration course of the institute 2016-2018, affiliated to Visvesvaraya Technological University, Belagavi. Project report on "A STUDY OF QUALITY OF WORK LIFE AT SHRI LAKSHMI METAL UDYOG LTD, BANGALORE" is prepared by her under the guidance of Mr Chikke Gowda K G, Asst Prof, MBA department in partial fulfillment of the requirement for the award of the degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that **DIVYA** S bearing **10X16MBA22** is a bonafide student of Master of Business Administration course of the Institute 2016–2018, affiliated to Visvesvaraya Technological University, Belgaum. Internship report on "A STUDY ON CONSUMER SHOPPING BEHAVIOUR AT FLIPKART is prepared by her under the guidance of DR. BALA KOTESWARI, ASSOCIATE PROFESSOR MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belgaum, and Karnataka.

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Dr. R.V.Praveena Gowda

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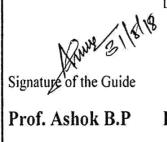
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MANAGEMENT SYSTEMS: A TAXONOMY"

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(Principal, TOCE, Bangalore)

Dr. RV Pravcena Gowda PARA The Oxford Colluge of Engineering Bommanahalli, Hosur Road Bendeluru-500 (188 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

"INCISIVE TRACKING TECHNIQUES FOR QUALITY CONTROL USING BIONIC METHOD"

Submitted in partial fulfilment 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

HARSHA C R

10X16MCA76

During the academic year 2017-2018

Signatur

Signature of the HOD

Signature of the Principal

Dr. R.V. Praveena Gowda

(Dept. of MCA, TOCE) **External Viva**

Mr. Achutha J.C.

(Principal, TOCE, Bangalore) > The Head

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

Name of Examiners

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Dr. RV Prayeena Gowda Department of MCA The Oxford College of Engineerin; Bommanahalli, Hosur Road Bengaluru - 560, 068

Bommanahalli, Hosur Road, Bengaluru-360 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"AN ENHANCEMENT PROCESS E-LEARNING

TOOL WITH LMS"

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 bona fide work carried out by

KARTHIK M

10X16MCA78

During the academic year 2017-2018

Signature of the Guide

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Name of Examiners

Signature of the HOD

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(Dept. of MCA, TOCE)

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ature of he Principal Dr. R.V. Praveena Gowda

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

Signature with date

Bommanaballi, Hosur Read, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ANALTICAL LEAD GENERATOR CAMPING

MANAGEMENT TOOL"

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

Master of Computer Applications

From Vishveswaraya Technological University. Belagavi

is a result of the bonafide work carried out by

KAVYA R 10X16MCA79 During the academic year 2017-2018

Signature of the Guide Signature of the HOI

Prof. J C Achutha (Dept. of MCA, TOCE)

External Viva Name of Examiners

1. 2 Dr. M.S. Shash)dhara (Dept. of MCA, TOCE)

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

galure of the Principal Dr.R.V. Praviena Gowda

(Principal, TOCE, Bangalore) Dr. R V Pravenna Gouvita Principal The Oxford Collegie of Engineering Berning Will dateur Roat Striktline Will dateur Roat

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



CERTIFICATE

This is to certify that the project work entitled

"INTERNET OF THINGS ENERGY MONITORING 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

NITHIN Y

10X16MCA80

During the academic year 2017-2018

Signature of the HOD

Signature of the Guide

Mr. JC Achutha

(Dept. of MC

Dr. M.S. Shashidhara

(Dept. of MCA TOCE) Department of MCA

Department of MCA The Oxford College of EngineThe Oxford College of Engineering The Oxford College of Engineering Hosur Road, BANGALORE -Hosur Road, BANGALORE -External Viva

Name of Examiners

1. 2.

ignature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. RV Praveena Gowda Principal Bommanahalli, Hosur Road Bengaluru-560 068

Signature with date

Boumanahalli, Hosur Road, Bengalum-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"HEART DISEASE PREDICTION USING

ANDROID 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

PRIYA K

10X16MCA81

During the academic year 2017-2018

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

 The Head
 Department of MCA
 The Oxford College of Engineerin, Hosur Road, BANGALORE -

Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. R.V. Providence German Prince 11 The Oxford Colley, of Collaborating Remmancharit, Hocur Abad Signature with date 38



Signature of the Guide

Mr. JC Achutha

(Dept. of MCA, TOCE)

External Viva

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"MOBILE APPLICATION FOR DIVERSE COOPERATION

THROUGH TICKETING TOOL"

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

KHAVIYA SHREE R 10X16MCA82

During the academic year 2017-2018

Signature of the Guide

Prof. Saritha S

(Dept. of MCA, TOCE)

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

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

enature of the Principal Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. RVP - Contractor docted

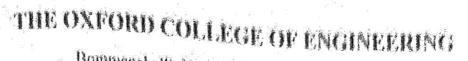
Profession The Oxford Colluge of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Signature with date

External Viva

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Bommanahalli, Hosur Road, Bengalum-360 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"STAYING CONNECTED IN A MOBILE HEALTHCARE SYSTEM EXPERIENCES FROM THE MEDINET"

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

ROHIT KUMAR MORYA

10X16MCA83

During the academic year 2017-2018

Signature of the Guide

Prof. S.Saritha

(Dept. of MCA, TOCE)

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Dr. M.S. Shashidhara

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Signature of the Principal Dr.R.V. Plaveena Gowda

(Principal, TOCE, Bangalore) Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bomtacophalid, Hogur Rood Bomtacophalid, Hogur Rood Bomtacophalid, Hogur Rood

Signature with date

External Viva

1. 2.

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"RAILWAY AUTO ANNOUNCEMENT, DYNAMIC RESERVATION AND SECURITY SYSYEM"

Submitted in partial fulfilment 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

SAROJA N

10X16MCA84

During the academic year 2017-2018

theHOI

Dr. M.S. Shashidhara The Head

Signature

Signature of the Guide

Prof. S Saritha

(Dept. of MCA, TOCE)

External Viva

Name of Examiners

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re of the Principal

Dr. R.V. Praveena Gowda

(Prificipal, TOCE, Bangalore) a

(Dept. OFMEMentoGFMCA The Oxford College of Engineering Oxford Course of Engineering Hosur Road, BANGALODE Bornmanahalli, Hosur Road 8. Signature with date

THE OXFORD COLLEGE OF ENGINEERING Destimationalialli, Herris Revel, Herrisahura Son oos

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

" UNDROID BASED VEHICLE TRACKING FOR TRAFFIC

POLICE"

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

SUKHATEERTHA

10X16MCA85

During the academic year 2017-2018

Signature of the Guide

Prof. Saritha.S

(Dept. of MCA, TOCE)

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Signature of the Principal Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. R.V. Promera Gowda Pitter di The Oxford Coller - ሰ sinearing Bommonsi e 11 Bentrolanz Signature with date

External Viva

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Bommanaballi, Decor Road, Dengaturo, 360 662

pepartment of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ANDROID BASED VEHICLE TRACKING FOR TRAFFIC POLICE"

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Master of Computer Applications

From Visveswaraya Technological University, Belagavi

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SUKHATEERTHA

10X16MCA85

During the academic year 2017-2018

Signature of the Guide

Prof. Saritha.S (Dept. of MCA, TOCE) Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

- The Head Department of MCA The Oxford College of Engineering Hosur Road, BANGALORE - Signature of the Principal Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. R.V. Promotes Gowela State of The Oxford Octoor of Comparing Bormandia and Beappalate Signature with date

<u>External Viva</u> Name of Examiners

1. 2.

Bommanahalli, Hosur Road, Bengahiru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ANDROID APPLICATION FOR E-COMMERCE ASSISTANCE FOR DAY TO DAY REQUIREMENTS" Submitted in partial fulfilment 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

VEENA N

10X16MCA86

During the academic year 2017-2018

Dr. M.S. Shashidhara

Department of MCA

(Dept. of MCA, TOCE) The Head

Signature of the Guide

Prof. S Saritha

(Dept. of MCA, TOCE)

External Viva

Name of Examiners Hosur Road, BANGALORE

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2.

Signature Afthe HOL Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, T The Oxford College of Engineering The Oxford College of Engineering

Bommanahalli, Hosur Road Besignature with date

Rommanahalli, Hosur Road, Bengahuru 560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"MySmartNotifier using Aritificial Intelligence Technology"

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

AISHWARYA.V

10Y16MCA70

During the academic year 2017-2018



Signature of the Guide

Prof.SSaritha.

(Dept. of MCA, TOCE)

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

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

Signature of the Principal

Dr. R.V. PraveenaGowda

(Principal, TOCE, Bangalore) D2. R V ---- Sowda

The Oxford the second tribacting Bommanahabil, North Stad Bompolarith (1996)

Signature with date

External Viva

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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

"Auto engine: Understanding pattern methodology

for supply chain"

Submitted in partial fulfilment 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

ASHWITHA REENA D'SOUZA

10Y16MCA71

During the academic year 2017-2018

Signature of the Guide

Signatu the HOD

Prof. S Saritha

External Viva

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

Hosur Road. BANGALORE -

Name of Examiners

(Dept. of MCA, TOCE) Department of MCA the Oxford College of Engineering

Praveena Gowda Dr (Principal, TOCE, Bangalore) The C Bommananali", Hosur Road Bengaluru - 530 008 Signature with date

Signature of the Principal

1.

Bommanahalli, Hosur Road, Bengaluru 360/062

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ENHANCED AND ENHANCED FILE SYSTEM"

Submitted in partial fulfilment 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

BHAVANI H

10Y16MCA72

During the academic year 2017-2018

Signature of the Guide

Prof.S Saritha

(Dept. of MCA, TOCE)

External Viva

Name of Examiners

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE) The Head

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

Signature of the Principal

Dr. R.V. Praveena Gowda Dr. R.V. Praveena Gowda (Principal, TOCE, Bangalore) The Oxford Gules, of Engineering Bommanahola, Hasur Road

Benoaluru-550 068 Signature with date

2.

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"SaaS BASED MOBILE APPLICATION FOR FACILITY MANAGEMENT SERVICES"

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 bona fide work carried out by

GAGAN RAJENDRA REDDY

10Y16MCA73

During the academic year 2017-2018

Signature of the Guide, 8

(Dept. of MCA, TOCE)

Prof. Punya V

Signature of the HOD

Dr. M.S. Shashidhara I

(Dept. of MCA, TOCE)

The Head

Department of MCA

The Oxford College of Engineering

Hosur Road, BANGALORE -

lignature of the Principal Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. R V Pravectia Company Principal The Oxford College of Engineering Bommanahalli, Hosur Read Bengaluru-560 068

Signature with date

External Viva

Name of Examiners

1.

Bommanahalli, Hosur Road, Bengahmu-160 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"Towards an Improved IT Service Desk System and Processes"

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

GEETA TORAN

10Y16MCA74

During the academic year 2017-2018

Signature of the Guide. 5 18 Prof. Punya

(Dept. of MCA, TOCE)

Signature of the HQD

Dr. M.S. Shashidhara

Signature of the Principal

(Principal, TOCE, Bangalore) Dr. R.V. Phareteric, Gerstan

Dr. R.V. Praveena Gowda

(Dept. of MCA, TOCE)

The Head Dr. RVP Department of MCA The Oxford College of Engineerin, he Contact Co Hosur Road, BANGALORE -

Signature with date

External Viva

1.

2.

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"Automated Online Administration Management And Academic

Information 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

HARISH KB

10Y16MCA75

During the academic year 2017-2018

Signature of the Glade

Prof. Punya V (Dept. of MCA, TOCE)

<u>External Viva</u> Name of Examiners

1.

2.

Signature o the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

The Head Department of MCA The Oxford College of Engineeriny Hosur Road, BANGALORE -

gnature of the Principal Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. RV Praveena Gowda Principal The Oxford College of Engineeri Bommanahalli, Hosur Road Signature:with@a@68

- Roomanahalli, Hosor Road, Bengaluru 360 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ONLINE AUCTION MANIA 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

ISMAIL M TARAL

10Y16MCA76

During the academic year 2017-2018



(Dept. of MCA, TOCE)

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

The Head Department of MCA The Oxford College of Engineering Hosur Road, BANGALORF - Signature of the Principal Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore)

Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengeluru-530 068 Signature with date

External Viva

Name of Examiners

1. 2.

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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

"Bug Tracking and Reporting System for Quality Product

Develop"

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

LAHARIKRISHNA N

10Y16MCA77

During the academic year 2017-2018

Signature of the Guides) '8

Prof. Punya V

(Dept. of MCA, TOCE)

External Viva Name of Examiners 1.

2

Signature of the HOI Dr. M.S. Shashidhara

(Dept. of MCA, TOCE) The Head Department of MCA The Oxford College of Engineerin, Hosur Road, BANGALORE -

Signature of the Principal Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Signature with Gate68

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"E-GROCER INDUSTRY ENTERPRISE RESOURCES PLANNING"

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 bona fide work carried out by

LIKHITH KUMAR

10Y16MCA78

During the academic year 2017-2018

Signature of the Guid 13 Próf. PUNYA V

(Dept. of MCA, TOCE)

External Viva Name of Examiners

1. 2.

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE) / The Head Department of MCA Hosur Road, BANGALORE -

Signature of the Principal Dr. R.V. Praveeda Gowda

(Principal, TOCE, Bangalore) Dr. RV Praveena Gowda Principal The Oxford College of Engineering The Oxford College of Engineering Bommanahalli, Hosur Road Bandaluru-560 068 Signature with date

INFOXFORD COLLEGE OF ENGINEERING

Romminghalt Rosa Road Benjating Segmen

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ANALYTICAL PLATEFORM FOR CRYPTOCURRENCY TRADING"

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 bona fide work carried out by

MADAN P REDDY

10Y16MCA79

During the academic year 2017-2018

Signature of the childe's Prof. Punya v

Data Otto Provi

(Dept. of MCA, TOCE)

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE) The Head Department of MCA The Oxford College of Engineering Hosur Road, BANGALORE -College of Engineering Hosur Road, BANGALORE -College of Engineering College of Eng

External Viva

Name of Examiners

- 1.
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Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. R V Proc. or na Convertranspol Second Correct of Endower's Second Correct of Endower's Second Correct of Endower's Bearing and Prince 068

Signature with date

Bommanahalli, Hosai Road, Bengahiru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"SAVE E-PROJECT MANAGEMENT TOOL"

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

NANDINI R REDDY

10Y16MCA81

During the academic year 2017-2018

Signature of e HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

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

enature of the Principal

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(Principal, TOCE, Bangalore) Dr. R V Praveena Gowcia Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Signature with date

Signature of Ing falice Prof. Punya V (Dept. of MCA, TOCE)

External Viva

1.

2.

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



This is to certify that the project work entitled

"DIGITALIZED MULTI-CHANNEL SERVICE DESK"

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

NISHA D 10Y16MCA82

During the academic year 2017-2018

Signature of the Guildes

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(Dept. of MCA, TOCE)

- The Head Department of MCA The Oxford College of Engineerin Hosur Road, BANGALORF -

mature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore)

Dr. K v Pi. Altha Gowca Principal The Oxford College of Engineering Bommanahalli, Hobur Road Bengaluru-560 068 Signature with date

Prof.Punya V (Dept. of MCA, TOCE)

External Viva

1.

2.

Bommanahalli, Hosu Road, Bengaluru-560/068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

TOLLGATE AUTOMATION OF COLLECTION SYSTEM USING SMARTCARD DATA

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

Master of Computer Applications

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

RAKSHITHA H S

10Y16MCA84

During the academic year 2017-2018

Signature of the Guide

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

Signature of the HOD

Dr. M. S. Shashidhara

(Dept. of MCA, TOCE)

of the Pfincipal Signatu Dr. R. V. Praveena/Gowda

(Principal, TOCE, Bengaluru)

The Head Dr. RV Proveene Gowda
 Department of MCA Principal
 Free Oxford College of Engineering Ford College of Engineering
 Hosur Road, BANGALORE - Provide Provement of the second sec

External Viva 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

"Web Based Application for the DoorWay to Neighborhood"

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

RAMCHANDRA PATWARI

10Y16MCA85

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Signature of the Guide

Prof. Saritha S (Dept. of MCA, TOCE) Signature of the HOD

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Dr. R.V. Praveena Gowda

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(Principal, TOCE, Bangalore) PRINLIPAL he Oxford College of Engineering . e Oxford College of Engineering sommanananalli, Hosui Ruad Bangarore - 860 (155

External Viva Name of Examiners

1. 2.



Bommanahalh, Hosur Road, Bengaluro 560.05%

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"AUTOMATED EMPLOYEE ENTERY AND EXIT MANAGMET

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

RANGITH .G

10Y16MCA86

During the academic year 2017-2018

Aury 23/8/18

Signature of the Guide Prof. Ashok B.P.

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Signature of

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The Oxford College of Engineerin,
Hosur Road, BANGALORE -

Principal The Oxford College of Engineering Bommanahalli, Hosur Road Signatureuvillîfdat68

ignature of the Principal

1. 2.

Bommanahalli, Hosur Road, Bengahuru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"SAAS BASED DIGITAL PLATFORM FOR HUMAN RESOURCE AND RECRUITMENT PROCESS"

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

SHAZLINE TARANNUM 10Y16MCA87

During the academic year 2017-2018

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

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(Principal, TOCE, Bangalore) Dr. R V Praveena Gowua Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bongaluru-560 068 Signature with date

2.



Bommanahalli, Hosur Road, Bengaluru-560/068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"SAAS BASED WEB APPLICATION FOR EMBEDDED

MAINTENANCE SERVICE"

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

Master of Computer Applications

From Vishveswaraya Technological University, Belagavi

is a result of the bonafide work carried out by

SUMANA N SHETTY 10Y16MCA88

During the academic year 2017-2018

Signature of the

Prof. Mridula Shukla

(Dept. of MCA, TOCE)

1. 2.

External Viva Name of Examiners

HØD Signature

Dr. M.S. Shashidhara

Dept. of MCA, T TOCE) Department of MCA

Hosur Road, BANGALORF -

ture of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. RV Praveena Gowda Principal The Oxford College of Engineerin, The Oxford College of Engineering Bommanahalli, Hosur Road Signature Sill da 560 068

Bommanaballi, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

WEB BASED TRACK AND TRACE MATERIAL ISSUE USING RFID 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

VIJAYA DURGA MALLESHWARI.K 10Y16MCA89

During the academic year 2017-2018

Signature of the 11ØD

Dr. M.S. Shashidhara

(Dept. of MCA TOCE)

Department of MCA The Oxford College of Engineerina Hosur Road, BANGALORE -External Viva

Signature of the Principal Dr. R.V. Praveena Gowda

Principal PTQ 05: Bangal 8:00 Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru - 560 068

Signature with date

Name of Examiners

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Bommanahalli, Hosan Kood, Benedmon an Orie

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ONLINE RTO 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

MEGHA RAJAN P

10Y16MCA90

During the academic year 2017-2018

0000 Signature of the Guide

Signature of the Guide

Prof.Kimmi Kumari

(Dept. of MCA, TOCE)

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE) The Head Department of MCA Che Oxford College of Engineering Hosur Road, BANGALORE -Bornmondering

nature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. R.V. Protecting Gowda Protecting Benering E - Bommendativii, Honur Road Beneriura 560 008 Signature with date

External Viva

1. 2.

Bommanahalli, Hosui Road, Bengahiru 560.068 Department of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

A Web Application on Smart Facility Operator (SFO) For Automation

Test-Cases

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

Master of Computer Applications

From Visvesvaraya Technological University, Belgaum is a result of the bonafide work carried out by

APURV UPADHYAY

10Z16MCA70

During the academic year 2017-2018

Signature of the Guide

Prof. Dharamvir

(Asst. Prof, MCA Dept.)

External Viva

Name of the Examiners

Signature of

Dr. M.S. Shashidhara,

(HOD, Dept. of MCA) The Head Di Department of MCA The Oxford College of Engineering These Hosur Road, BANGALORE -

gnature of the Principal Dr. R.V.Praveena Gowda

(TOCE, Bangalore) Dr. R V Praveena Gowda Principal Th**S Griard Colline date** ngineering Bommanahali, Honur Road Banceluru-580 068

2.

Bommanaha 11 Hocur Road, Bengaluru 504/063

Department of Master of Computer Applications



This is to certify that the project work entitled

"ANDRIOD APPLICATION SYSTEM FOR

E-FARMING"

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

ARAVINDHA KUMARA 10Z16MCA71 During the academic year 2017-2018



Prof. Dharamvir

(Dept. of MCA, TOCE)

External Viva

Name of Examiners

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Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

- The Read Department of MCA The Oxford College of Engineering House Road, BANGALINOT

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Dr. R.V. Praveena Gowda

(Principal, TOCE, Bungalere)

Dr. RV Praveena Gewila Principal The Oxford Collega of Engineering Bommanaholi Mosur Road Benacium, 550 084 Signature with date

1

I.

Rommanahalli, Hosm Road, Bengalum 560.068 Department of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

Design and Development of Universal Genius Mirror Using

Raspberry Pi3

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

Master of Computer Applications

From Visvesvaraya Technological University, Belgaum is a result of the bonafide work carried out by

DHANANJAY CHAUHAN

10Z16MCA75

During the academic year 2017-2018

plust

Signature of the Guide Prof. Dharamvir (Asst. Prof, MCA Dept.)

External Viva

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2.

Name of the Examiners

Signature of the HOD

Dr. M.S. Shashidhara,

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/ The Head Department of MCA The Oxford College of Engineerit, Hosur Road, BANGALORE -

Signature of the Principal Dr. R.V.Plaveena Gowda

(TOCE, Bangalore) Dr. RV Praveena Gowd: Principal The Oxford College of Engineer Signature with date Read Bendeluru-560 508

Rommanahalli, Hosur Road, Bengaluru 560 068.

Department of Master of Computer Applications



This is to certify that the project work entitled

"E-VOTING 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

IRSHAD AHMAD DAR 10Z16MCA76

During the academic year 2017-2018

Signature of the Guide

Prof. Dharamvir (Dept. of MCA, TOCE)

External Viva Name of Examiners 1. 2.

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Dr. M.S. Shashidhara

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Brincipal, TOCE, Bangalore Dr. RV Pravecna Gowelu Principal The Oxford Common of Fingineering Bonarows Signature with date for Doad Signature with date for Doad

Bommanahalli, Hosur Road, Bengaluru 560/068 Department of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

BAARKOO

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

Master of Computer Applications

From Visvesvaraya Technological University, Belgaum is a result of the bonafide work carried out by

KALATHIYA RINKESH

10Z16MCA77

During the academic year 2017-2018

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(Asst. Prof, MCA Dept.)

External Viva

Prof. Dharamvir

Name of the Examiners

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Signature of the HOD

Dr. M.S. Shashidhara,

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Dr. R V (FRGEe Bangadove)a Principal The Oxford College of Engineering Benmanahalli, Hoşur Road Bendaluru 560 068

2.

Boumanahalli, Hosta Road, Bengalum 560 062

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ANDROID APPLICATION FOR RECIPROCITY OF BLOOD DONOR AND RECIPIENT"

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

KEERTHANA M

10Z16MCA78

During the academic year 2017-2018

Signature of the Guide

Prof. Mridula Shukla

(Dept. of MCA. TOCE)

<u>External Viva</u> Name of Examiners

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

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(Principal, TOCE, Bangalore) Dr. R V Praveena Gowda Jon M. Principal The Oxford College of Engineering Bommanalfalli; Hosur Road Bommanalfalli; Hosur Road Bendalurd 560 068 Signature with date

Bommanahalli, Hosur Road, Bengalum-560.068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ADVANCE INDUSTRIAL CONCEPT APPS DEVELOPER WITH PANEL CONTROL"

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

IYAPPAN M

10Z16MCA79

During the academic year 2017-2018

Signature of the

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(Dept. of MCA, TOCE)

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(Principal, TOCE, Bangalore) Dr. RV Praveena Gowda Principal The Oxford College of Engineering The Oxford College of Engineering Bommanahalli, Hesur Road Bengaluru-560 068 Signature with date

External Viva Name of Examiners 1.

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Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

" APPLICATION PROCESSING MODULE FOR CREDIT SCORE CHECKING IN VARIOUS ORGANIZATION "

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

Master of Computer Applications

From Vishveswaraya Technological University, Belagavi

is a result of the bonafide work carried out by

M VISHNU VARDHAN 10Z16MCA80

During the academic year 2017-2018

Signature of the Guide

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

External Viva

Name of Examiners

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Dr. M.S. Shashidhara

(Dept. afhMGAuTOCE) Department of MCA The Oxford College of Engineering Hosur Road, BANGALORE -

ignature of the Principa Dr.R.V. Praveena Gowc

(Principal, TOCE, Bangal Dr. R.V. Preveena Go Frictipal The Oxford Codege of Engl Bommans belli, Hosur F Signature with date

Bommanahalli, Hosur Road, Bengaluru 560 062

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"MANAGEMENT SUPERVISE MYSALE SERVER APPLICATION 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

MEENA P

10Z16MCA81

During the academic year 2017-2018

Signature of the Guide

Prof. Mridula Shukla Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)



(Dept. of MCA, TOCE)

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

ature of the Principal

Dr. R.V.' Praveena Gowda

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

Signature with date

External Viva Name of Examiners

Rommanahalli, Rosu Poad, Bengalurii 460.063

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ANDROID HABITUDE APPRAISAL UTILIZATION FOR SOLUTION PRACTICE"

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

MOHAMMED BILAL YASEEN **10Z16MCA82**

During the academic year 2017-2018

Signature of the Guide

Prof. Mridula Shukla. Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

Signature ANOD

(Dept. of MCA, TOCE) The Head Department of MCA The Oxford College of Engineering Hosur Road, BANGALORE -

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Signature of the Principal

Dr!RWP. Braveena Gowda

Principal The Birrow CTPGE, Balley predring Bommanahalli, Hosur Road Bengaluru - 560 068

External Viva

2.

Name of Examiners

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

"LEARNING MANAGEMENT SYSTEM-AN INTERACTIVE

PLATFORM FOR ALL END-USERS"

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

N SRINIVAS BABU

10Z16MCA83

During the academic year 2017-2018

Signature of the Guide

Asst.Prof.Mridula Shukla (Dept. of MCA, TOCE)

External Viva Name of Examiners 1.

Signature HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE) - The Read Department of MCA The Oxford College of Engineering Hosur Road, DANGALORE -

Signature of the Principal

Dr. R.V. PraveenaGowda

(Principal, TOCE, Bangalore)

Signature with date Dr. RV Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, H: 10.1 Bendaluru-500 008

2.

Bommanaballi, Hosm Road, Bengaluru 560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"VOICE BASED EMAIL SERVICE FOR VISUALLY

CHALLENGED PEOPLE"

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

NAVITHA V

10Z16MCA84

During the academic year 2017-2018

Signature of the

Asst.Prof.Mridula Shukla

(Dept. of MCA, TOCE)

External Viva Name of Examiners

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2.

Signature official

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

Department of MCA Hosur Road, BANGALORE -

the Principal of natu

Dr. R.W. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. RV Fraveena Gowua Principal The Oxford College of Engineering The Oxford College of Engineering Bommanahalli, Hosur Road Bighaluse waa aace

Rommanahalli, Hosur Road, Bengahiru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"NFC BASED ATTENDANCE SYSTEM USING LUA"

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

NAYANA S

10Z16MCA85

During the academic year 2017-2018

Signature of the Guide

Prof. Mridula Shukla

(Dept. of MCA, TOCE)

Signature of the HOD

gnature of the Principal

Dr. R.V. Pravěena Gowda

(Principal, TOCE, Bangalore) Dr. R V Praveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

<u>External Viva</u>

Name of Examiners

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

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

Signature with date

1. 2.

Rommanahalli, Hosur Road, Bengaluru 560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"OPTIMIZATION ANALYZER WITH DIAGNOSTIC SEGMENTATION CREATOR"

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

PREETESH B PATEL

10Z16MCA86

During the academic year 2017-2018

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Signature of the Guide

Prof. Kimmi Kumari

Dept. of MCA, TOCE)

External Viva

Vame of Examiners

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

/ The Head Department of MCA The Oxford College of Engineerin, Hosur Road, BANGALORE -

Signature(df the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. RV Proveena Gowda

是自己的时 The Oxford College of Engineering Bommans Signature with date

Bommanahalli, Hosut Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"MED-AID CONTROL 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

RAMESHWAR DUBEY

10Z16MCA87

During the academic year 2017-2018

.0°

Signature of the Guide

Prof. Kimmi Kumari

(Dept. of MCA, TOCE)

External Viva

1. 2.

Name of Examiners

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

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Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. R V Proveena Gowda Principal The Oxford College of Engineering Bommanahalli, Hosur Road Signature with date??

Bommanahaffi, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"AN ANDROID APPLICATION OF ORDER TRACKING

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

RUDRESH A

10Z16MCA88

During the academic year 2017-2018

Signature of the Guide

Prof. Kimmi Kumari

(Dept. of MCA, TOCE)

External Viva

Name of Examiners

Signature of the HOL

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

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

nature of the Principal

Dr. R.V. Praveena Gowda

Principal, TOCE, Bangalore) Dr. RV Pravesna Gowda Principal The Oxford College of Engineer Bommanahalli, Hosur Road Signature with 6ate68

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1.

Boumanahalli, Hown Road, Bengaluro 560.068 Department of Master of Computer Application



CERTIFICATE

This is to Certify that the project work entitled

"CORPORATE PROMULGATION WITH FRAGMENTED INTELLIGENCE"

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

MASTER OF COMPUTER APPLICATIONS

From Visvesvaraya Technological University Belgaum is a result of the bonafide work carried out by

SUBHA SANKAR SARKAR

10Z16MCA91

During the academic year 2017-2018

Signature of the Guide

Prof.Kimmi Kumari (Dept. of MCA, TOCE)

External Viva Name of the Examiners

1.

2.

Signature d

Dr.M.S Shashidhara

(Dept. of MCA, TOCE) The Head Department of MCA Hosur Road, BANGALORE -

Signature of the Principal DER.V. Praveen Gowda

(Principal, TOCE, Bangalore) Dr. RV Praveena Gowia Principal The Oxford College of Engineer The Oxford College of Engineering Hosur Pood Bommanahalli, Hosur Road Bengaluru-560 068

Signature with Date

THE ONLONG COLLEGE OF ENGINEERING

Remmenabalh, Hosor Road, Bengaluru 360 069

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"LEARNING MANAGEMENT SYSTEM - USING A GAMIFY DASHBOARD FOR ENHANCED USER

EXPERIENCE"

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 bona fide work carried out by

SUJIT N NAIR

10Z16MCA92

UDER

Signature of the Guide

Asst. Prof. Kimmi Kumari (Dept of MCA, TOCE) During the academic year 2017-2018

Signature the HOD

Dr. M.S. Shashidhara

(Dept of MCA, TOCE)

The Head **External Viva** Department of MCA Name of examiners with daffe Oxford College of Engineering Hosur Road, BANGALORE -

Signature of the Principal

Dr. R. V. Praveena Gowda Dr. RV Praveena Gowda (Dept of 的说说问句CE) The Oxford College of Engineering Bommanahalli, Hosur Road Bengaltru 60 068

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Remembrahally Her m Woad, Rengahua 360 963

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ENHANCED ANALYTICS SKILLS SHARING USING WEB

APPLICATION"

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

UJJAWAL YADAV

10Z16MCA93

During the academic year 2017-2018

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Prof. Kimmi Kumari

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External Viva Name of Examiners

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2.

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Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) da Principal The Oxford Colling and Engineering Bommanahalii, Hapur Road Bengaluru-560 068 Signature with date

Bommanahalli, Hosur Road, Bengaloru-560.068 Department of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

INTERNET DISCUSSION FORUM - REACTO

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

Master of Computer Applications

FromVisvesvaraya Technological University, Belgaum is a result of the bonafide work carried out by

VORA PARTH

10Z16MCA95

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Signature of the Guide

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(Asst. Prof, MCA Dept.)

External Viva

Name of the Examiners

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During the academic year 2017-2018

Signature of the HØD

Dr. M.S. Shashidhara,

(HOD, DEPt. BEMCA) Department of MCA The Oxford College of Engineering Hosur Road, BANGALORE -

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Dr.R.V.PraveenaGowda

(TOCE, Bangalore) Dr. R V Praveena Gowda Principal The Oxford College of Engineering Bornignatums, with datesd Benaziuru-560 068

Bommanahalli, Hosur Road, Bengalum-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"SMARTPHONE SECURITY ASSISTANCE - APPLOCK"

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

VORA SAGAR

10Z16MCA96

During the academic year 2017-2018

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Signature of the Guide

Prof. Kimmi Kumari

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Signature

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(Dept. of MCA, TOCE)

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

Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bangalore) Dr. R.V. Preveona Gowda Principal The Oxford Collego of Engineering Bommanahalli, Hosur Road Signature with date 3