

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))

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Hosur Road, Bommanahalli, Bengaluru – 560068 (Affiliated To Visvesvaraya Technological University, Belagavi)

Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "Aahaar Paddhathi-in Kannada for pregnant women and new mother" carried out by A Thanmai (10X13CS007), Apoorva C(10X13CS010), Chaithra K (10X13CS016), Harshitha K(10X13CS023) 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. Koyel Sinha Chowdhury

r. R.V Praveena Gowda

Project Guide

VicoPrincipal and H.O.D Vice Principal Dr. RV Praveena Gowda Professor & Head of Department/CSE

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "Support System for Mentoring" carried out by Aishwarya M(10X13CS004), Kavitha L(10X13CS030), Lohitha M B(10X13CS045) ,Mahalakshmi L(10X13CS038), 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

Project Guide

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Department of Computer Science and Engineering



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ANAND T (10X13CS009), ARAVIND C (10X13CS011), JAIDEV T (10X13CS026), JEEVAN R(10X13CS027), 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.Shilpa Kaman

Project Guide

Dr. R.J. Anandhi

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Certified that the project work entitled "E-FACTUM: The Online Magazine" carried out by Maryam Ali (10X13CS039), Fardeena Siddiqua (10X13CS020), Madiraju Sai Rupa Sri (10X13CS037) & Chaithra Puttaswamy (10X13CS015), bonafide students of The Oxford College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of the Visvesvaraya Technological University, Belgaum during the year 2016-2017. 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 the project work prescribed for the said degree.

(-
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Project Guide

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Name of the Examiners

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "COST EFFECTIVE ELECTRONIC PILL DISPENSER" carried out by Arvind Y (10X13CS012), Aswin Padmanabhan (10X13CS013), M Ganesh (10X13CS035), Dharmakari Vishnu Charan (10X13CS091), 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

Project Guide

Vice Principal and H.O.D

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CERTIFICATE

Certified that the project work entitled "Offline Access" carried out by, ANAND HEGDE (10X13CS008), KUSHAN D (10X13CS031), MOHAMMED AFZAL P (10X13CS043), HARISH S (10X14CS401), 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

Project Guide

Vice Principal and H.O.D.

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Certified that the project work entitled "ELDERLY SUPPORTING DEVICE" carried out by ADITYA A (10X13CS003), CLARIS GEORGE (10X13CS018), PAVITHRA V (10X12CS117), VIJAYALAKSHMI (10X14CS413) 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 2016-2017. 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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Professor & Head of Department/CSE

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CERTIFICATE

Certified that the project work entitled "JOB CRACKER" carried out by (10X13CS032), LENORA MICHAEL (10X13CS033), KUSUMANJALI M MADHURI B.P (10X13CS036), MEENAKSHI NAGESH REDDY (10X13CS041) 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 2016-2017. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Prof. Senthil Kumar R

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2. SREDEVI KN

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "Smart City Bus with Enhanced Dust Collector" carried out by Ishan Kaushkkumar Shah (10X09CS025), Sathish M (1OX10CS086), Palash Jyoti Das (1OX12CS071), Goutham T (1OX13CS021), 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. Seema Patil.

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Name of the Examiners

Dr. R. J. Anandin

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "ALUMNI INFORMATION SYSTEM" carried out by Abhishek S (10X11CS003), Rajath A (10X11CS071), Akshay Tom (10X12CS006), 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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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Name of the Examiners

1. Dr. R. J. Anauden

2. SRIDEVE KN

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "E-STICK: An electronic aid for the visually impaired" carried out by Prashanth Jain P (10X13CS056), Praveen S (1OX13CS058), Sanjay Gaire (1OX13CS071), Shubham Kumar (1OX13CS076) 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

roject Guide

r. R J Anandhi

THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068.

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "E-JIVADANA" carried out by SALMA SULTHANA (10X13CS069), SIRI B M (10X13CS077), PRAMOD M BHAT (10X13CS094), TENZIN DORJEE (10X11CS106), 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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 Dr. R J Anandhi prescribed for the said Degree. Vice Principal Professor & Head of Department/CSE

THE SECOND COLLEGE OF ENGINEERING Bengaluru - 560068.

• Principal

Vice Principal and H.O.D Dr. R J Anandhi

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Principal Professor & COLLEGE OF ENGINEERINGS Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

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Name of the Examiners

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2. Seeme Pahi

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project entitled "WatchOverMe: A S.O.S based android application" carried out by SNEHA S.S (10X13CS078), VISHNU KANTH S.K (10X13CS090),BHAGYASHRI ASUKAR (10X13CS096),VARSHA CHOUGALE (10X14CS412), 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, Belgaum during the year 2016-17.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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Vice Principal and H.O.D

Principal, TOCE

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Dr. R J Anandhi Professor & Head of Department/CSE The Oxford Cologo of Engineering THE OFFORD COLLEGE OF ENGINEERING Bengalulus Solina

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Name of the Examiners

Signature with Date

Shoth T

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

Department of Computer Science and Engineering



Certified that the project entitled "SMART CART" carried out by RAJKUMARI B RATHORE (10X13CS063), SATWIKI VERMA (10X13CS073), KAIFI SAHAR (10X13CS092), PRATIK SATISH LENGADE (10X14CS403), bonafied 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, Belgaum during the year 2016-17. 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. Chandanita Thakur

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1. Dr. R. J. Anavaln

2. SRIDEVI KN

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "Detection of Mobile Phones In Restricted Areas" carried out by Pradeep Pradhani (10X13CS055), Somesh S (10X13CS079), Suhas P (10X13CS082), Venkatesh P.R (10X13CS087) 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

risha Kudaravalli

Project Guide

Principal TOCE

Vice Principal and H.O.D Dr. R J Anandhi

Dr. RV Praveena Gowda Principal

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eena Gowda

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Name of the Examiners

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "INTELLIGENT FIRE ALERT SYSTEM" carried out by Mayuri M (10X13CS040), Nandini Priyadarshini P (1OX13CS049), Nayana B S (1OX13CS050), Pallavi N G (1OX13CS053), 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

Project Guide

Dr.R.V Praveena Gowda

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project entitled "E-AYURVEDA" carried out by NAMRATHA B PRATHIBHA S (10X13CS057), RAJASHREE BILGUNDI (10X13CS048), (10X13CS062), TEJESHWANI (10X13CS086), bonafied 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, Belgaum during the year 2016-17. 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. Deepa **Project Guide**

Vi**ce IRibaipahdhil** H.O.D Principal

■ & Head of Department/CSE THE OXFORD COLLEGE OF ENGINEERING Bengaluru - 560068.

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Name of the Examiners

1. Br. R. J. Amandhi 2. SREDEVI K.N

Dr. Kupravogna Gowda

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "Bug Tracking System" carried out by MEERASHREE M.H (10X13CS042), NISHKALA S.P (10X13CS052) and The Oxford College of bonafide students of RAHEELA (10X13CS061), Engineering, Bangalore 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 2016-2017. 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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Project Guide

Bafahd H.O.D

Mesor & Head of Department/CSE THE CHOORD COLLEGE OF ENGINEERING Bengaluru - 560068.

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R.V. Praveena Gowda

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CERTIFICATE

Certified that the project work entitled "INTELLIGENT ROUTING MAP FOR GARBAGE COLLECTOR" carried out by Sudha K N (10X13CS081), Divyashree S (10X14CS400), Hemalatha Y (10X12CS027), Pruthviraj M S(10X12CS116) 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

Project Guide

Vice Principal and H.O.D

Vice Principal

Principal, TOCE

Dr. R J Anandhi Dr. R V Praveena Gowda

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CERTIFICATE

Certified that the project work entitled "e-VAYAPARI SAMPARKA" carried out by Jyothi kiran R(10X13CS028), Tejaswini P (10X13CS085), Kusuma S (10X14CS402), Thulasi P J (10X14CS411) 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

Project Guide

Vice Principal and H.O.D

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Praveena Gowda

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Name of the Examiners

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "E-LASIKE VELAPATTI: BABY VACCINATION TRACKING APPLICATION" carried out by S. Harshitha (10X13CS067), Saniya Umraz (10X13CS070), Sowmya Mosale Jagadish (10X13CS080), Sharuq Khan K (10X12CS092), 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. Sowmya H.K

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Name of the Examiners

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Signature with Date

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Department of Computer Science and Engineering



CERTIFICATE

Certified that the final project entitled "SMART BRAILLE" carried out by Gouthami S Hegde(10X13CS022), J Jayapriya(10X13CS024), Revathi R P(10X13CS064), Pavithra N(10X14CS406), 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, Belgaum during the year 2016-17. The final project report has been approved as it satisfies the academic requirements in respect of final project work prescribed for the said degree.

Prof. Maragatham S

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Dr. R.J. Anandhi

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Name of the Examiners

1. Dr. R.J. Anandhi

2. J. Ruby Dinakar

Hosur Road, Bommanahalli, Bengaluru – 560068 (Affiliated To Visvesvaraya Technological University, Belagavi)

Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "Mi-Fi AN OFFLINE CHAT APPLICATION" carried out by Nithin D (10X12CS066), Raghu S (1OX13CS060), Sateesh S G (1OX13CS072), Arun Dev P (10X13CS095), 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. Seema Patil

Project Guide

Vice Principal and H.O.D. Dr. R. Anandhi

Vice Principal Professor & Head of Department/CSE THE OXFORD COLLEGE OF ENGINEERING DE OXFORD COLLEGE OF Engineering Bengaturu - 560068.

External Viva

R.V Praveena Gowda

Principal, TOCE

Dr. RV Praveena Gowda

Principal

Bommanahalli, Hosur Road

Bengaluru-560 068

Name of the Examiners

Hosur Road, Bommanahalli, Bengaluru – 560068 (Affiliated To Visvesvaraya Technological University, Belagavi)

Department of Computer Science and Engineering



CERTIFICATE

Certified that the project work entitled "Digital Attendance System" carried out by, ASHOK P (10X09CS011), RAHUL KUMAR SING (10X12CS079), SADASHIV G KONDI (10X14CS408), THASLEEM P (10X14CS410) 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 the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. Naveen H S

Project Guide

Dr. R.J. Anandhi

Vice Principal and H.O.D Dr. R. J Anandhi Vice Principal

Professor & Head of Department/CSE
THE OXFORD COLLEGE OF ENGINEERING
Bengaluru - 560068.

Dr. RV Praveena Gowda

Principal, TOCE

Dr. RV Praveena Gowda

Principal

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

External Viva

Name of the Examiners

1. Dr. R. J brandhi.

2. J. Ruby Dinakar

HOSUR ROAD, BOMMANAHALLI, BENGALURU-560068 (Affiliated To Visvesvaraya Technological University, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "An Audio Based Application to Aid Visually Impaired Users" carried out by SANIYA KHAN[10X13IS076], JAIN[10X13IS081], SHARATH JAGAJAMPI M[10X13IS084], SOMASHEKAR B A[10X12IS105] 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 Visveswaraiah Technological University, Belagavi during the year 2016-2017. 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. Suganya

Dr.D. Jayaramaiah

Dr. Praveena Gowda

Assistant Professor

Professor & Head HE OXFOR

Principal

The Oxford College of Engineering Bommanahalli, Hosur Road

Signature with date 068

Name of the examiners Bommanahalli, Hosur Ma

THE OXFORD COLLEGE OF ENGINEERING BANGALORE

(Affiliated to VISVESWARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

System In Cloud Environment" carried out by BHIM PRATAP (10X13IS013), PUJARI MADHURYA (10X13IS060), SYEDA AYESHA (10X13IS101) and VEEKSHITHA DSOUZA (10X13IS104), bonafied students of THE OXFORD COLLEGE OF ENGINEERING, BANGALORE 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 2016-2017. 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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Mrs. Kalaiselvi Dn DA	Jayaramaiah H	Dr. R.V. Praveena Gowda
Asst. Professor PROF Professor PROF Professor THE DESTRUCTION Bomman Malalli, Hossir	CSI, MPMI, M.TECH (IIT-D) ATION CONTROL LEGE OF ENGINEE Main Road, Bangalore-5 External Viva	REERING Principal, TOCE RING Dr. RV Providena Cowda 60068. Principal The Oxford College of Engineering Bommanahaili, Hosur Road
Name of the examiners		Signature with date
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2. S. RAJESWAR		777617

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Secure and Trustable Routing in WSN by avoiding Black hole Attack using ActiveTrust" carried out by AISHWARYA K (10X13IS003), ANUSHA P A (10X13IS008), ASHWINI N (10X13IS010) and POOJA K SHEKAR RAO (10X13IS054), 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 2016-2017. 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. Nalinakshi B G

PROGLESSOF AND Head Depti-Asst. Professor, Dept. of ISE

PROFESSOR & HOD INFORMATISTESCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERINGS Oxford College of Engineering

Principal, TOCE Praveena Gowda

Dr. Praveena Gowda

Bommanahalli, Hexterna R. Mitva angalore-560068. Bommanahalli, Hosur Road Signature with date 68

Name of the examiners

Kalouis

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Implementation of a device to find the actual quality of the Packed Food" carried out by SHABNAM RIZWAN (10X13IS080), SHREYA K R (10X13IS085), SONALI SHINTRE (10X13IS089) and VEENA YATHNALLI (10X13IS105), 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 2016-2017. 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

Assistant Professor

D. Jayaramaiah

Dr. D JAYARAMAIAH PHD, FIETE, SMCSI, MPMI, M. TECH (HT-0)

THE OXFORD COLLEGE OF ENGINEERING Bemmanehalli, Hosur Main Road, Bangaiore-560068.

raveena Gowda ravecha Gowda Principal

The Oxford College of Engineering PROFESSOR & HOD INFORMATION SCIENCE AND ENGINEERING Bommanahalli, Hosur Road Bengaluru-560 068

Signature with date

Name of the examiners

SRIDEVE K. N

HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Application Of Robotics In Hazardous Or Warfield Activities" carried out by CHAITRA H.K (10X13IS016), HARSHA NAIK A.S (10X13IS024), and LAXMI RUDRAYYA SALIMATH (10X13IS035), NANDINI REDDY P(10X13IS047), 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 2016-2017. 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. Channappa Gowda DV

Dr. Da Javaramajah (IIT-D)

Dr. Praveena Gowda

Dr. Principal

PROFESSOR & HUDING HOSE OF ENGINEERING

PROFESSOR & HUDING HOSE AND ENGINEERING

Principal

External Viva The Oxford College of Engineering

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Bengaluru - 560 068

Name of the examiners

1. Skalaisehi 2. S. RAJERNAR

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

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Implementation of Low-Rank Coherency Diffusion for Detection of Salient Object in Videos" carried out by A SMITHA[10X13IS001], DIGVIJAY P R[10X13IS019], REHAN MUSHTAQ [10X3IS069], SYEDA IQRA SHAFAQ[10X3IS102] 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 2016-2017. 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.

Assistant Professor

Dr.D. Jayaramaiah

veena Gowda

Name of the examiners

Dr. D. J. A. SUENCE AND ENGINEERING Principal a Golvida

Dr. FIETE SUCSI, MEMILIAN SOLENCE AND ENGINEERING Principal

PROFESSOR & HOD INFORMATION SOLECE AND ENGINEERING Principal

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



CERTIFICATE

Certified that the project work entitled "A Healthcare Monitoring System for Checking the health of Hospitalized and Elderly People" carried out by JAHNAVI V [10X12IS114], SAMRADHA RAO [10X13IS073], SHRUTHI T S [10X3IS086], SUJAN KUMAR [10X3IS094] 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 Visveswaraiah Technological University, Belagavi during the year 2016-2017. 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 Kokila

Assistant Professor

Dr.D. Jayaramaiah

Dr. Praveena Gowda

Praveena Gowda Dr. RV

Dr. Professor & Head IAH PhD, FIETE, SMCSI, MPMI, M. TECH (IIT-D) The Oxford College of Engineering

Name of the examiner PROFESSOR & HOD INFORMATION SCIENCE AND ENGINE Bommanaballi, Hosur Road
THE OXFORD COLLEGE OF ENGINE Signature with date of the examiner of the examiner

1. SRIDE VI PRommanahalli, Hosur Main Road, Bangalore-Stoppe

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Practical Approximate kNN Queries with Location and Query Privacy using ABE" carried out by BHARATH KUMAR B(10X13IS012), MANJUNATH R(10X13IS039), PAVAN J(10X13IS053) and ANUSHA P(10X12IS080), 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 2016-2017. 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. Chempavathy B. Dr. D. Javaramaiah Dr.R.V. Praveena Gowda Asst. Professor, Dept. of ISE Prof. & Head ISE IAH Principal, TOCE

PROFESSOR & HOD-INFORMATION SCIENCE AND ENGINEERING DT. BTTHE OXFORD COLLEGE OF ENGINEERING
Bommanahalli-Hoshir Mair Road, Bangalore-560051 he

Bengaluru-560 068

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Name of the examiners

Signature with date

1. S. Kelaiseli 2. S. RAJESWAR)

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BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "TRAFFIC SIGN RECOGNITION USING CONVOLUTION NEURAL NETWORK" carried out by Elson Jithesh D'souzz (IOX13IS021), Gajendra Dhankhar (IOX13IS023), Manisha (IOX13IS038) and Srinivas B V (IOX13IS093), 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 2016-2017. It iscertified 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. Visalini S

Prok Dr. D. Jayaramaiah

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

Asst. Professor, Dept. of ISE Dr. DHON Dept. on ISEAH PND, FIETE, SMCSI, MPMI, M. TECH (IIT-D)

The Oxford College of Engineering

PROFESSOR & HOD-INFORMATION SCIENCE AND ENGINEERING Bommanahalti, Hosur Road

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IDEVE

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(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Secure and Trustable Routing in WSN by avoiding Black hole Attack using ActiveTrust" carried out by AISHWARYA K (10X13IS003), ANUSHA P A (10X13IS008), ASHWINI N (10X13IS010) and POOJA K SHEKAR RAO (10X13IS054), 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 2016-2017. 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. Nalinakshi B G

Asst. Professor, Dept. of ISE

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THE OXFORD COL**PETS**FOF ENGINEERING. RV Praveena Gowda

Bommanahalli, Hosur Main Boad, Bangalor, 5000000.

Bommanahalli, Hosur Main Road, Bangalore-560068. External Viva

Dr. Praveena Gowda

The Oxford College of Engineering

BSignapahalli, Hosur Road Bangaruwithcdate8

Name of the examiners

1. S. Icalair

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Work Sharing Algorithm for Computing With (10X13IS029), Devices" carried out by KARTHIK.A Mobile KEERTHANA.S.REDDY (10X13IS032), MONICA.S (10X13IS043), M.MONISHA (10X13IS044), 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 2016-2017. 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. Sindhuja.R Asst. Professor

Jayaramaiah Professor & Head

Dr.R.V. Praveena Gawda, Principal, TOCE Or. RV Praveena Gowda

PhD, FIETE, SMCSI, MPMI, M. TECH (HT-D) PROFESSOR & HOD INFORMATION SCIENCE AND ENGINEERING Oxford College of Engineering Bommanahalli, Mosur Main Bovi Vangalore-560068. Bommanahalli, Ho-

Bengaluru-380 008

Name of the examiners

Signature with date

1. 2.

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

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Implementation Of A Secure Anti-collusion Data Sharing Scheme For Dynamic Groups In The Cloud" carried out by AKSHAY P [10X13IS005], AKSHAY T N [10X13IS006], ANUSH [10X13IS007], NAGESH T R [10X13IS045] 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 2016-2017. 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.

Sullia. R Mrs. Sindhuja R

Assistant Professor

Dr. D.Jayaramaiah

Dr. D JAYARAMAIAH PhD, FIETE, SMCSI, MPMI, M. TECH (HT-D)

PROFESSOR & HOD-INFORMATION SCIENCE AND ENGINEERING The Oxford College of PROFESSOR & HOD-INFURMATION SCIENCE AND ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
Bommanahalli, Hosur Ros

Dr.Praveena Gov Principa

Dr. RV Praveena Gov da

Bengaluru-560 068

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External Viva

Name of the Examiners

1. S. kalaiselni 2. S. KAJERWARI

Signature with Date

HOSUR ROAD, BOMMANAHALLI, BENGALURU-560068

(Affiliated To Visvesvaraya Technological University, Belagavi)

Department of Information Science and Engineering



Certified that the project work entitled "Implementation of rescue Wings Using Mobile Computing and Active Services to Support Disaster Rescue" carried out by RAHAT ZAMANI [10X13IS065], SOUNDARYA H [10X13IS091], SUSHMITHA V [10X3IS099], YOGESHA V [10X3IS107] 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 Visveswaraiah Technological University, Belagavi during the year 2016-2017. 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. Vijavalaxmi Patil'

Dr.D. Jayaramaiah Dr. D JAYAR

Dr.Praveena Gowda Pravena Gowda Dr. R

PhD, FIP rofessor & Head AH Assistant Professor

PROFESSOR & HOD-INFORMATION SCIENCE AND ENGINEERING COMMON PROPERTY AND E THE OXFORD COLLEGE OF ENGINEERING IN

Name of the examiners Hosur Main Road, Bangalore-560068.

1. J. Ruby Dinakar

HOSUR ROAD, BOMMANAHALLI, BENGALURU-560068

(Affiliated To Visvesvaraya Technological University, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "An Industrial Smart Helmet for Air Quality and Hazardous Event Detection using Smart Band" carried out by KISHORE L [IOX12IS051] PRASHANTH S [IOX13IS056], SAGAR V [IOX3IS072], SUNIL KUMAR K [IOX3IS097] 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 Visveswaraiah Technological University, Belagavi during the year 2016-2017. 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. J Karthiyayini Dr.D. Jayaramaiah

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

Assistant Professor PROFESSOR & HOD

PROFESSOR & HOD MITCHMATION SCIENCE AND ENGINEERING
THE OXFORD COLLEGE OF ENGINEERINGHE Oxford College of Engineering
THE OXFORD COLLEGE OF ENGINEERINGHE Oxford College of Engineering
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Name of the examiners Bommanahalli, Hosur Main Road, Bangalore-560068. Bommanahalli, Hosur Road Signature Weithdare -560 068

1. S. talaischi

2. S. RAJEGWARI

K

Hosur Road, Bommanahalli, Bengaluru-560068
(Affiliated to Visvesvaraya Technological University, Belagavi)
Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Sentimental Analysis of Real Time Twitter Based Tweets" carried out by ARCHANA K L[10X12IS015], ANANYA CHANDRAN K C[10X12IS012], MEGHA K[10X12IS069], SWATHI KRISHNA[10X12IS109] 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 2016-2017. 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.Keerthi H

Assistant Professor

Dr.D. Jayaramaiah

PROJESSATY HEADIA I A H

The Oxford College of Engineering Bommanahalli, Hosur Road

Bengaluru-560 068

PROFESSOR & HUD-INFORMATION SCIENCE AND ENGINEERING
Name of the examiners is OXFORD COLLEGE OF ENCINEERING

1. SREDEVE K Bommanahalli, Hosur Main Road, Bangalore-560058 guel

2. J. Karthiyayini

dul Re

THE OXFORD COLLEGE OF ENGINEERING BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "An Indoor Positioning System To Monitor And Analyse Real Time Patient Data Using Trilateration Method" carried out by Sukeerthana .P (10X13IS052), Rekha. S (10X13IS070), M.Navya Lahari (10X12IS057), Sanjana John (10X13IS077), bonafide 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, Belgaum, during the year 2016 - 2017. 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. Kalaiselvi

rofDr.D. Jayaramaih.

Assistant professor Dept. of ISE

Dr. Head Of Department PhD. FIETE DEPT. OF ISP TECH (HT.D)

Dr. RV Premiemal Gowda Principal

Dr. Prayeen Gowda

PROFESSOR & HOD-INFORMATE STEERING The Oxford College of Engineering THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road

Name of the Braming Wosur Main Road, Bangalore-560068.

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HOSUR ROAD, BOMMANAHALLI, BENGALURU-560068

(Affiliated To Visvesvaraya Technological University, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Fine Grained Two-Factor Access Control for Web-Based Cloud Computing Services" carried out by AISHWARYA .P.K [10X13IS004],KASTHURI.R[10X13IS030],MEGHA.C.K[10X13IS040],MEGHA.R [10X13IS041] 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 Visveswaraiah Technological University, Belagavi during the year 2016-2017. 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.

Assistant Professor

DT. D. J. Jayaramaiah (IIT.O)

DT. D. J. Jayaramaiah (IIT.O)

DT. D. J. Jayaramaiah (IIT.O)

PROFESSOR & HOD FORESTOR BY Prayeena Gowda

PROFESSOR & HOD COLLEGE Head NGINEER DF. R. V. Prayeena Gowda

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PROFESSOR & HOD COLLEGE Head NGINEER DF. R. V. Prayeena Gowda

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Bommanahalli, Hosur Road

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1. J. Ruby Dinakan

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

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een approved as it satisfies the academic requirement	ts in respect of Project work
Mrs. Chempavathy.B Dr. Day Awaramajah	Dr.R.V.Praveena Gowda
Asst. Professor, Dept. of ISE, FIETERING SPHICAL SHIT. PROFESSOR & HOD-INFORMATION SCIENCE AND FI THE OXFORD COLLEGE OF ENGIN	Principal, TOCE BY Prayeena Gowda REFRING Principal Principal Principal Principal Bominanahalli, Hosur Res
Name of the examiners	Bengaturu-560 068 Signature with date

BANGALORE.

(Affiliated to VISVESVARAVA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

ARM LPC 2148 and RFID Technology" carried out by PURBASA GOSWAMI (IOX13IS062), RANJU R (IOX13IS068), SAVITA MEHTA (IOX13IS079) and AYESHA SHARIFURRAHMAN TARANNUM (IOX14IS401), 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 2016-2017. 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. Radha D N Asst. Professor Dr. D. Jayaramaiah Professor & Head

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

External Viva

Name of the examiners

J. Ruby Sincker

2 S. Visalini

Signature with date

24/6/17

THE OXFORD COLLEGE OF ENGINEERING BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "IoT Based Smart City Transportation System" carried out by PUNITH P (10X13IS061), ROJA R (10X13IS071), and SANDEEP D (10X13IS074), 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 2016-2017. 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.

M. Lohithe Mrs. Lohitha M

D. Jayaramaiah D JAYARAMAIAH

raveena Gowda

Asst. Professor, Dept. of ISE PHODE Dept. OMASSIZECH (III-D)
PROFESSOR & HOD-INFORMATION SCIENCE AND ENGINDERN Praveena Gowga THE OXFORD COLLEGE OF ENGINEERING Principal Formanahalli, Hosur Main Road, Bangalorer Stationary College of Engineering External Viva

Bommanahalli, Hosur Road Bengaluru-560 068

Name of the examiners

SRIDIVE K

Signature with date

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "CONJUNCTIVE KEYWORD SEARCH WITH TIMING ENABLED PROXY RE-ENCRYPTION FUNCTION FOR E-HEALTH CLOUDS" carried out by Avinash Bhat (10X13IS011), Divya H (10X13IS020), Manasa J (10X13IS037) and Navyashree H K (10X13IS049), 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 2016-2017. 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

Assistant Professor

Jayaramaiah

DV. Praverna Gowda JAYARAMAIAH The Oxford College of Engineering

PhD, FFFbfessor MEM HeadCH (IIT-D) Bomma Principallosur Road PROFESSOR & HODANFORMATION SCIENCE AND ENGINEERING Bengaluru-560 068

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

External Viva Name of the examiners

Signature with date

Dinekor

2.

HOSUR ROAD, BOMMANAHALLI, BENGALURU-560068

(Affiliated To Visvesvaraya Technological University, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "An Audio Based Application to Aid Visually Impaired Users" carried out by SANIYA KHAN[10X13IS076], JAIN[10X13IS081], SHARATH JAGAJAMPI M[10X13IS084], SOMASHEKAR B A[10X12IS105] 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 Visveswaraiah Technological University, Belagavi during the year 2016-2017. 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.

Assistant Professor

D. Jayaramaiah

PriPrincipal Gowda

Bommanahalli, Hosur Main Roal

Professor Head angalore Principal Owda

PROFESSOR Main Road The Oxford College of Engineering

Bommanahalli Bommanahalii ith dateRoaJ

Name of the examiners THE OXFORD CO

1. C. ralassol

8. RAJES-AR

THE OXFORD COLLEGE OF ENGINEERING BANGALORE

(Affiliated to VISVESWARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



CERTIFICATE

Certified that the project work entitled "Enhanced Security Mechanism For SCADA System In Cloud Environment" carried out by BHIM PRATAP (IOXI3IS013), PUJARI MADHURYA (10X13IS060), SYEDA AYESHA (10X13IS101) and VEEKSHITHA DSOUZA (10X13IS104), bonafied students of THE OXFORD COLLEGE OF ENGINEERING, BANGALORE 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 2016-2017. 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. D Jayaramaiah

Asst. Professor Professor M& Mead, MICO

Dept. Of ISE

Dr. R.V. Praveena Gowda rincipal,

PROFESSION'S HOUNGERLATION SCIENCE AND ENSINEERING
THE Dept Of College OF ENGINEERING
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External Vivare-560063 he Oxford College of Engineering
External Vivare-560063

Name of the examiners

1. S. Kalaish

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 "VOICE BASED HOME AUTOMATION CONTROL SYSTEM FOR SPEECH IMPAIRED PEOPLE" carried by Bindhu B N (10X13EC020), Gayathri D (10X13EC030), Anitha karegowdar (10X13EC009) and Anjali B (IOX13EC011) 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 ENGG of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2016-17. 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.

N. 1/206117

JAYARAJ N

Asst. professor

Dept. of ECE, TOCE

UROD7 Dr. MANJU DEVI

Dept. of ECE

TOCE

The Oxford Conege of Engineering Bommanahalli, Bangalore - 560 068

Name of the Examiners

2. C. Smjomelle

Principa Dr. R V PRAVERNA GOWDA

> Dr. RV Praveena Gowda Principal

Professor & HOD of E&C Engineering The Oxford College of Engineering Bengaluru 5500 068 Signature with date

HOSUR ROAD, BOMMANAHALLI, BENGALURU-560068.

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the seminar entitled ROBOTIC SURVEILLANCE GROUND MODULE FOR MILITARY AND DISASTER MANAGEMENT carried out by DEBAYAN BHATTACHARYYA (10X13EC024), KUMAR KUNDAN KUMAR RAI(10X13EC047), KAUSHIK S(10X13EC046), SHAIK MANSOOR PASHA B(10X13EC101), is a bonafide student of Electronics and Communication Engineering of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF COMMUNICATION AND ELECTRONICS ENGINEERING in ENGINEERING of the Visvesvaraya Technological University, Belagavi during the year 2016-17.It is certified that all corrections/suggestions indicated for Internal Assessment has been incorporated in the Report deposited in the Departmental Library. The seminar report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering degree.

Mrs. Dhanya.E

Asst. Professor

Dept. of ECE, TOCE.

Dr. Manju Devi Professor and HOD

Dept. of ECE, TOCE.

Dr. R V. Praveena Gowda

The Oxford College of Engineering Professor & HOD of E&C Engineering Bommanahalli, Hosur Road

The Oxford Conege of Engneering Name of the Examiners Bommanahalli, Bangalore - 560 968

Signature With5

Examiner 1:

Examiner 2:

C. Sryomi

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled "ROBUST RAILWAY CRACK DETECTION SCHEME WITH LED-LDR ASSEMBLY" is a bonafide work carried out NISHANTH REDDY KONDA (10X10EC038), RAJA SEKHAR REDDY (IOX12EC071), GAURAV T (IOX10EC022), ASHWATHA(IOX13EC401) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the year FEB -MAY 2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the dissertation accordingly. The Project report has been approved as it satisfies the academic requirements required for the B.E degree.

Dr. VIVEK MAIK Asst. Professor,

Dept. of ECE, TOCE

Professor and HOD

Dept. of ECE, TOCE

Dr. R.V PRAVEENA GOWDA

Principal, TOCE

Principat

Dr. RV Praveena Gowda

Professor & HOD of E&C Engineering Principal
The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

EXTERNAL VIVA

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NAME OF THE EXAMINERS

EXAMINER 1: N. JAYARAJ

EXAMINERS: ANANTH KUMAR M.S.

SIGNATURE WITH DAT

N. W 23/06/17
M.S. Anarth Kumar 23/06/17

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to Certify that the project work entitled "OPTICAL COMMUNICATION FOR REAL TIME MIXED NETWORK" is a bonafide work carried out RAVIKIRAN V(10X13EC074), MAHITH KUMAR REDDY M (10X13EC053), MADHUSANGMESH P (10X13EC052), SUBRAMONY M (10X13EC087) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the year FEB -MAY 2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the dissertation accordingly. The Project report has been approved as it satisfies the academic requirements required for the B.E degree.

Guide. Mr. PIRUTHIVIRAJ.P

Asst. Professor, Dept. of ECE, TOCE Dr. MANJU DEVI

HQD

Professor and HOD Dept. of ECE, TOCE

The Oxford Conege of Engineering Bommanahalli, Bangalore - 560 068

Principal

Dr. R.V PRAVEENA GOWDA

Principal, POCE ena Gowda

Professor & NOD of E&C Engineering
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EXTERNAL VIVA

NAME OF THE EXAMINERS

EXAMINER2:

EXAMINER 1:

C-Smys

SIGNATURE WITH DATE

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

Department of Electronics & Communication Engineering



CERTIFICATE

This is to Certify that the Project work entitled "BI-DIRECTIONAL SIGN LANGUAGE TO VOICE TRANSLATOR" carried out by AMAR SANKAR CHOWDHURY (10X13EC008), JAYA PRABHAKAR P (10X13EC036), KARTHIK J (10X13EC041), LALITH KUMAR A N (10X13EC049), 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 the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI 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 Suited

Prof. SRIDHAR N

Dr. MANJU DEVI

Dr. R.V.PRAVEENA GOWDA

rincipal

Asst. professor

Dept. of ECE

Dr. RV Praveena Gowda TOCE pal

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Name of the Examiners

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Examiner 1.

Dr. Hauf

Examiner 2.

C. Smooned

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 "VOICE BASED HOME AUTOMATION CONTROL SYSTEM FOR SPEECH IMPAIRED PEOPLE" carried by Bindhu B N (10X13EC020), Gayathri D (10X13EC030), Anitha karegowdar (10X13EC009) and Anjali B (10X13EC011) 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 ENGG of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2016-17. 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.

N:W 2906/17 Guide

JAYARAJ N

Asst. professor

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Name of the Examiners

Dr. R V PRAVEENA GOWDA
TOCE

Bommerial Hosur Road

Dr. RV Praveeva Gowaa

The Oxford College of Engineering

Signature with date

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

Department of Electronics & Communication Engineering



CERTIFICATE

Certified that the Project work entitled "RGB BASED COMBAT ROBOT" carried out by ARFA AHAMED(10X13EC014), ASRIN HUSSAIN(10X13EC018), CHAITRA HEGDE(10X13EC021), HARSHITHA L U(10X13EC034) students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI 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 said Degree.

Mrs. CHRISPIN JIJI

Asst. Professor

Dept of ECE, TOCE

Bengaluru

Dr. MANJU DEVI

Professor & ROD of Eac Engineering

Bommanahattic Bantuatore - 560 068

PRINCIPAL

Dr. PRAVEENA GOWDA

Dr. RV Praveena Gowud

The Oxford Office of Engineering The Oxford College Engineering Bommanahalli, Hosur Road Bengalangaham 068

NAME OF EXAMINERS N. JAYARAJ

2) ANANTH KUMAR M.S.

SIGNATURE WITH DATE

N. W 23/06/17 M.S. Ananth Kuman 23/06/17

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 "DETECTION OF CANCER USING MATLAB AND ANDROID APP" carried out by Mr. Akshay Gowda H V (10X14EC401), Mr. Rushik A (10X14EC415), Praveen Desai (10X14EC412), Mr. Ajith P U (10X14EC400) bona fide 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 the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2016-17. 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 academics requirements in respect of project work prescribed for the said Degree.

Guide

HOD

Principal

Dr. PREETA SHARAN

Dr. MANJU DEVI

Dr. R V PRAVEENA GOWDA

professor

Dept. of ECE

Dept. of ECE, TOCE

Professor & HOD of E&C Engineering

Name of the Examiner & Signature with date
The Oxford Conege of Engneering

Examiner 1.

Bommanahalli, Bangalore - 560 068

Examiner 2.

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 "SUPER RESOLUTION TO ENHANCE LOW RESOLUTION IMAGERY TO HIGH RESOLUTION FOR ADVANCED DEVICES" carried out by Mr. Abhin BT (10X12EC003), Mr. Badri Sri Anjaneya Raju (10X11EC010), Mr. Muhammed Savad K (10X12EC057), Mr. Sachin Meto (10X12EC077) 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 the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2016-17. 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.

PADr. VIVEK M

Assoc. professor

Dept. of ECE, TOCE

Dept. of ECE

TOCE

Dr. R. V. PRAVEENA GOWDA

Dr. K v Tockena Gowda

The Oxford College of Engineering Bommanahalli, Hosur Road

Name of the Examiners The Oxford Conege of Engineering Bengaluru-5 Bengaluru-560 068

Rommanahalli, Bandalore - 560 088

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



Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify that the project work entitled "GSM based smart Energy Monitoring and optimisation system" is a bonafide work carried by ABDAL PASHA K [10X13EE002], BHARATH KUMAR A [10X13EE019], HEMANTH J P [10X13EE030], M ABDUL AZEEZ MUQTHAR [10X13EE040] of VIII semester [B.E.], in partial fulfilment for the award of the degree of Bachelor of engineering in electrical and electronics engineering of Visvesvaraya technological university, Belgaum during the academic year 2016-2017. It is certified that all corrections / suggestions indicated for the internal assessment have been incorporated in the report deposited in the department library. The project has been approved as it satisfies the academic requirement prescribed for the said degree.

Signature of the guide

Mr. Jayakumar N

(Associate Professor)

Signature of HOD

Signature of the Principal

President College of Engine Dry RV Praveena Gowda
The Conford College of Engine Dry RV Praveena Gowda

Bommannalli, Hosur Road, Principal
BANGALORE - 560 068he Oxford College of Engineers

Bommanahalli, Hosur Ross Bengaluru-560 068

Name of Examiners

JATALUMBR. N.

R. GUNASEKARI

Signature with date

PS - 23/6/17

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

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



CERTIFICATE

This is to certify that the following students,

MADHU R 10X13EE043

MEGHA M D 10X13EE046

MONISHAS N 10X13EE051

NANCY MANOHAR 10X13EE053

bonafide students of The Oxford College of Engineering, has completed the project work entitled "DESIGN AND DEVELOPMENT OF SOLAR POWERED BLUETOOTH CONTROLLED ROBOTIC VEHICLE " in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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

Mr. Jaya Kumar. N

Professon & Handa Papes of EEE The Oxford College of Engineering Bommanahalli, Hosur Roa.. BANGALORE - 560 068

External Viva

Name of the Examiners:

1. JAYAKWYAR. N

2. R. GUNASEKARI

Signature of Principal

Dr. R.V Praveena Gowda Dr. R.V Praveena Gowda Principal The Oxford College of Engineering

Bommanahalli, Hosur Road

Signature With date.

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



<u>CERTIFICATE</u>

This is to certify that the following students,

MOHAMMED NOUMAN A USN: 10X13EE049

MONICA R USN: 10X13EE050

NETHRAVATHI M USN: 10X13EE055

NOORUDDIN KHAN USN: 10X13EE414

bonafide students of The Oxford College of Engineering, has completed the project work entitled "MONITORING AND CONTROL OF VARIABLE FREQUENCY DRIVE FED 3 PHASE INDUCTION MOTOR USING 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 2016-2017. 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

Mr. Jayakumar N

Professor Bharath 066t. of EEE The Oxford College of Engineering

The Oxford College of Engineering Bommanahatti, Hosur Road,

BANGALORE - 560 068.

ture of Principal

Praveena Gowdala

Bommanahalli, Hosur Road Signature with date.

Name of the Examiners:

1. Dr. v. s. Bharath.

Leliltammo. G.+

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

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



CERTIFICATE

This is to certify that the following students,

AJITH T J

USN: 10X13EE004

ATHER PASHA

USN: 10X13EE011

BADARI A R

USN: 10X13EE015

RAGHAVENDRA VS

USN: 10X12EE057

The bonafide students of The Oxford College of Engineering, has completed the project work entitled "ELECTRIC VEHICLE CHARGING STATION WITH AN ENERGY STORAGE STAGE FOR SPLIT DC BUS VOLTAGE BALANCING" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. Nalina Kumari

Professoignature, Octob Di EEE
The Oxford College of Engineering
Bommananam, 115 ar Road,
BANGALORE - 560 068.

Signature of Principal

Dr. R.V Praveena Cowda
Principal

The Oxford College of Engineering Bommanahalli, Hosui Roca Bengaluru-560 068

External Viva

Name of the Examiners:

1. Dr.v.s Bharath

2. Sordey & 15

Signature with date.

Sturb 2716. SL 514 2-16

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

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



CERTIFICATE

This is to certify that the following students,

(1OX13EE003) 1. ABHISHEK S KUMAR

(1OX13EE020) 2. BHEEMANNA ANGADI

(1OX13EE025) 3. D RAMESH

(1OX13EE027) 4. HANUMARADDY M

Bonafide students of The Oxford College of Engineering, has completed the project work entitled "PHOTO VOLTAIC FED SINGLE PHASE INDUCTION MOTOR FOR RURAL PUMPING APPLICATION" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. Thiruvonas undari D

Dr. Bharath Y.S. Professor & Head, Dept. of EEE Dr. R.V Praveena Gowda

Bommanehalli, Hosur Road,

BANGALORE - 560 068.

Signature of Principal

he Oxford College of Engineering Dr. RV Praveena Gowqa Principal

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

Signature with Date.

External Viva

Name of the Examiners:

1. JAYAKUMOR. ~

2 R. GUNASEKARI

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

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



CERTIFICATE

This is to certify that the following students,

BAKSHAYA

10X13EE013

BULAVANYA

10X13EE014

BRINDA P A

10X13EE021

VANKATA RAMANA V

10X09EE067

bonafide students of The Oxford College of Engineering, has completed the project work entitled "ANALYSIS OF VARIOUS SPEED CONTROL METHODS OF INDUCTION MOTOR DRIVES" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. B Devi Vighneshwari

Dr. Bharath V.S

Signature of Principal

Dr. Bry Praysena Gowda Gowda Principal

External Viva

Professor & Head, Dant, of Fill The Oxford College of Eage . ming The Oxford College of Engineering Bommanahalli, Hosur Road. BANGALORE - 560 068.

Bommanahalli, Husur Ros. Bengaluru-560 008

Name of the Examiners:

1. JAYAKWYAR. N

2. R. GUNDSEKARY

Signature with date.

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 entitled "Solar Power Generation Using Seven Level Invertors" carried out by ANUJA R (10X13EE007), ANUSHA M N (10X13EE008), CHETHAN G R (10X13EE023), DIVYA M K (10X13EE026) are the bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in ELECTRICAL AND ELECTRONICS ENGINEERING of the Visvesvaraya Technological University, Belgaum. During the year 2016-17. 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 Guide

Signature of HOD

Signature of principal

Mrs. Sumitha T.L

Romma External Viva Road,

ent. of EEDr. R.V Praveena Gowda
Engliseering Oxford College of Engineering Bommanahalli, Hosur Road

Bengaluru-560 068

Name of the Examiners:

1. Dr. v.s. Bharath 2. Lelitanna-lix

Signature with date.

Shung 23/6,

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 entitled "War Field Spying Robot with Night VisionWireless Camera"carried out by JOHN MARSHAL L (10X13EE032) KARTHIK L (10X13EE033) KUMARESH J (10X13EE036), MARTINE J DSOUZA (10X13EE045) is a bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in ELECTRICAL AND ELECTRONICS ENGINEERING of the Visvesvaraya Technological University, Belgaum. During the year 2016-17. 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.

Nisha C. Pari Signature of guide

Signature of principal

Mrs.Nisha.C.Rani

Dr.Bharath V.S

Dr. R.V Praveena Gowda

Professor & Meed, Dept. of EEE The Oxford College of Engineering Bommanahalli, Hosur Road. BANGALORE - 500 068.

Dr. RV Praveena Gowda Principal The Oxford College of Engineering Jommanahalli, Hosur Road Signature with date:

External Examiners:

1. Dr. v.s. Bharadh

halittammo- G.A

Zhun 2 23/6/17

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 entitled "Design and Development of Grid Tied Solar Inverter"carried out by Bhagyalakshmi P M (10X14EE401), Mouna S(10X14EE412) Nagendra M A(10X14EE415), Manjunath S(10X13EE044) is a bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in ELECTRICAL AND ELECTRONICS ENGINEERING of the Visvesvaraya Technological University, Belgaum. During the year 2016-17. 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

Vishe C. Dani Signature of guide

Mrs. Nisha C Rani he Oxford College of Engineering Bommanahalli, Hozur Road, BANGALORE - 800 ONG.

ignature of principal

Dr. Praveena Gowda R V

Dr. RV Praverna Henry Principal The Oxford College of Businesting Bommanahalli, Hasur Road Bengaluru-580 068

Signature with date:

External examiners:

1. Dr. v.s. Bharath. 2. Sordey S.R

2016-2017

The Oxford College of Engineering

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

Department of Electrical and Electronics Engineering



CERTIFICATE

This is to certify that the following students,

INDRAJA K S

1OX13EE029

JAGADISHCHANDIRA BOSE S

10X12EE061

LIKHITHA M

10X13EE039

NANDINI S

10X13EE054

bonafide students of The Oxford College of Engineering, has completed the project work entitled "DESIGN AND REAL-TIME CONTROLLER IMPLEMENTATION FOR A BATTERY-ULTRACAPACITOR HYBRID ENERGY STORAGE SYSTEM" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

T. Someswani Signature of Guide

Signature of Principal

Mrs. K Someswari

Professional And Sopt. of EEEDr. R.V Praveena Gowda The Oxford College of Engineering Bommanahalli, Hosur Road. BANGALORE - 900 068.

Dr. RV Prayeena Gowda Principal

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

Signature with date.

External Viva

Name of the Examiners:

1. Dr. v.s. Bharath. 2. Lalittamuro-a.t

Shimb 2211.

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



CERTIFICATE

This is to certify that the following students,

HEMANTH B 10X14EE406

LAKSHMAN B 10X13EE038

MANOJ KUMAR G 10X14EE410

VINOD KUMAR 10X13EE423

bonafide students of The Oxford College of Engineering, has completed the project work entitled "POWER QUALITY IMPROVEMENT WIND/PV HYBRID SYSTEM BY USING FACTS DEVICE" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2016-2017. 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.

Mrs. K Navatha Kumari

Signature of/Frincipal

ProfeseBharlathovisept. of EEE Dr. R.V Praveena Gowda The Oxford College of Engineering Dr. RV Praveena Gowda

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External Viva

Name of the Examiners:

1. Dr. v.s. Bhowathi 2. Sandeep. 3.2

Signature with date.

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CERTIFICATE

This is to certify that the following students,

DILEEP R

USN: 10X13EE403

LOKESH S

USN: 10X13EE406

HARISHBABU

USN: 10X14EE405

NATARAJ K G

USN: 10X14EE416

bonafide students of The Oxford College of Engineering, has completed the project work entitled "VEHICALE MONIDROID:SMART SURVEILLANCE" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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 Manjula.C

The Oxford Callege of Engineering Bommanallallathove Road, BANGALORE - 500 066.

e of Principal

Principal

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

External Viva

Name of the Examiners:

1. Dr. vs. Bharath 2. Sanday 5-k

Signature with date.

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



CERTIFICATE

This is to certify that the following students.

BALWANTREDDY 10X13EE016

MADHU SUDHAN G 10X13EE042

MAHESH KUMAR P 10X14EE409

PURANDHARA REDDY N 10X14EE418

bonafide students of The Oxford College of Engineering, has completed the project work entitled "MINATURE THERMAL POWER PLANT USING TEP TRANSDUCER AND SOLAR FOR DOMESTIC AND INDUSTRIAL APPLICATIONS" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2016-2017. 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.

Mrs. K Navatha Kumari

Signature of Principal Profess Bhalfaff V.Spt. of EEL

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

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

External Viva

Name of the Examiners:

JAYAKWMAR, N 1.

2. R. GUNASEKARI

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



CERTIFICATE

This is to certify that the following students,

1. BALAJI

10X14EE400

2.DEVARAJ

10X14EE402

3. NAGARAJ PATGAR

10X14EE413

4. SUSHEELKUMAR CHAWAN

10X14EE420

Bonafide students of The Oxford College of Engineering, has completed the project work entitled "SPEED AND DIRECTION CONTROL OF DC MOTOR BY USING MICROCONTROLLER"in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

Mrs. Navatha Kumari

External Viva

Principal

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

Name of the Examiners:

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

Department of Electrical and Electronics Engineering



CERTIFICATE

Certified that the Project entitled "Design of ARINC 429 interface card and simulation of DIU" is a bonafide work carried out by the below mention students, The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Technology in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2016-17. 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 of PROJECT WORK prescribed for the Bachelor of Engineering Degree.

> 1.ATHAVALE MONICA ANIL (1OX13EE010) (1OX13EE022)2.CHAITRA. CHAVADI (1OX13EE028) 3.HARSHITHA.S.A 4.MEGHANA K.E (10X13EE047)

Misha. C. Dan

Internal Guide

Mrs.Nisha C.Rani

ofessor & Head, Dept. of FIEE Novi Praveen & Gowdaeering Oxford College of Engineering mmananali, Hesur Road Bommanahalli, Hosur Road, Bengaluru-560 068 Bommanahalli, Hosur Road,

BANGALORE - 560 068.

Signature of Examinar:

1. JAYAKUYAR.N 2. R. GUNBSEKARY

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



CERTIFICATE

This is to certify that the following students,

AZIZMIYA 10X13EE012

BASAVARAJ 10X13EE017

10X13EE034 KAVITA M TENGLI

10X13EE037 K VEENA PANCHAL

bonafide students of The Oxford College of Engineering, has completed the project work entitled "MISSILE GUIDANCE USING KALMAN ESTIMATE" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

J. Some susari Signature of Guide

Mrs. Someswari, T

Signature of Principal

Profes Bharaffid Bopt. of EEEDr. R.V Praveena Gowda be Oxford College of Engineering Dr. RV Praveena Gowda

Bommanahalli, Hosur Road,

Principal

BANGALORE - 560 088.

The Oxford College of Engineering Bommanahalli, Hosur Road

Bengaluru-560 068

External Viva

Name of the Examiners:

1. JAYAKWMAR. N 2. R. GUNASEKARI

Signature with date.

The Oxford College of Engineering

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CERTIFICATE

This is to certify that the following students,

KIRTI GIRENNAVAR

USN: 10X13EE035

NIDHI A V

USN: 10X13EE056

SNEHA VIJAY B V

USN: 10X13EE094

VARSHA H N

USN: 10X13EE107

bonafide students of The Oxford College of Engineering, has completed the project work entitled "ANALYSIS OF CONTROLLERS FOR BLDC MOTOR" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library,

Signature of Guit

Signature 67 HOD

The Signature of Principal Engineering Bommanahalli, Hosur Road Dr. Ben Priavecka Gowda

Mrs. B Devi Vighneshwari

Professor & Head, Dept. of EEE The Oxford College of Engineering Bommanahalli, Hosur Road, BANGALORE - 550 068.

External Viva

Name of the Examiners:

1. JAYAKUYAR.N 2. R. GUNASEKARI

Signature with date.

Bommanahalli, Hosur Road, Bengaluru – 560068

(Affiliated To Visvesvaraya Technological University)
(Accredited by NBA and NAAC)

Department of Electrical and Electronics Engineering



CERTIFICATE

Certified that the project work entitled "ZIGBEE SENSOR NETWORK FOR ADVANCED METER MONITORING AND CONTROLLING" carried out by PAVITHRA O (10X13EE060), SHRUTHIR (10X13EE068), SRIVIDYA S (10X13EE096), SWETHA Y(10X13EE103), bonafide students

of The Oxford College of Engineering, Bengaluru in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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 SAMBHYA RAI

Associate prof Dept. EEE Dr.VS BHARATH

Dr. R WPRAVEENAGOWDA

HOD Professor & Head, Dept. of EEE he Oxford Concile of Engineering

Bommanchall, Hosur Road, BANGALORE - 580 068. Principal TOCE

Name of the Examiners

1. JAYAKUYAR·N

2. R. GUNASEKAR)

Signature with Date

PS 2316/17

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,

REKHAT 10X13EE072 SANDHYA M 10X13EE077 SWATHI REDDY M V 10X13EE102

UZMA 10X13EE105

bonafide students of The Oxford College of Engineering, has completed the project work entitled "DESIGN AND ANALYSIS OF ULTRACAPACITOR FED VOLTAGE SOURCE CONVERTER USING PASSIVE POWER FILTERS" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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

Signature of Principal

Mrs A Nalina Kumari

ProfeDroBhaneth, West, of EEE Dr. R.V Praveena Gowda The Oxford College of Economicarin Dr. RV Praveena Gowda

Bommanahalli

Principal

Dmmanahalli Road, Principal
BANGALORE 200 068. The Oxford College of Engineering Bommanahalli, Hosui Road

External Viva

Bengaluru-560 008

Name of the Examiners:

N. Jr 23/6/12

1. JAYAKUYOR.N 2. R.GUMSBRARI

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 "A BIDIRECTIONAL SINGLE STAGE THREE PHASE RECTIFIER WITH HIGH FREQUENCY ISOLATION WITH DIFFERENT VOLTAGE LEVEL FOR INDUSTRIAL APPLICATION" has been carried out by Shantesh.VK (10X13EE084), Shwetha.BG (10X13EE090), Shwetha.M (10X13EE091), Sreelatha.P (10X13EE095) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-17.

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 degree.

Project Coordinator Mrs.RAICHEL RUBY.M

> Asst. Professor Dept. of EEE, TOCE.

he Driebha

Signature of the Principal Dr. RV.

BorBrofessor and HOD invering PRAVEENA GOWDA Road, Dr. Ryneipaly Tock Gowga Principal

The Oxford College of Engineering Bommanahalli, Hosur Road

Signature with Date

Name of the Examiners

1. JAYAKWYAR. N

2. R. GUNASEKARI

The Oxford College of Engineeging

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CERTIFICATE

This is to certify that the following students,

AKSHATA

10X13EE005

SHRADDHA SUNDARESAN

10X13EE088

SINCHANA J KABBUR

10X13EE093

SUVARNA

10X13EE100

bonafide students of The Oxford College of Engineering, has completed the project work "TRANSFORMERLESS PHOTOVOLTAIC INVERTER BASED **HIGH-FREQUENCY** LEGS HAVING BIDIRECTIONAL INTERLEAVING CAPABILITY " in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. RESNA S.R

External Viva

leed, Dept. of MEE

Prof DooBharath, V.S he Oxford Co Bommanastalli, H J 068. BANGALORE

Signature of Principal

Dr. R.V Praveena Gowda

Dr. RV Praveena Gowda Principal

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

Signature with date.

Name of the Examiners:

1.

JAYAKUMAR. N R. GUNASEKARI

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,

PRASHANTH DC

USN: 10X13EE065

MADHUNAIK M V

USN: 10X14EE408

SOMASHEKHARA M N

USN: 10X14EE419

THEJASH M

USN: 10X14EE421

Bonafide students of The Oxford College of Engineering, has completed the project work entitled " A MEDIUM FREQUENCY TRANSFORMER-BASED WIND ENERGY CONVERSION SYSTEM USED FOR CURRENT SOURCE CONVERTER BASED OFFSHORE WIND FARM" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. Resna S R

Dr. R.V Braxeena Gewalda

Signature of Principal

he CapraBharath W.Snglass Bommanehalli, Hosur Road, BANGALORE - 560 068.

The Oxford College of Engineering

Bommanahalli, Hosur Road

External Viva

Name of the Examiners:

1. Dr. v.s. Bhavoth

Labothamus GA

Bengaluru-560 068 Signature with date.

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CERTIFICATE

This is to certify that the following students,

1OX13EE086 SHASHIKANTH K

10X13EE097 **RN SUNIL**

10X13EE099 **SURAJ S RAJ**

10X13EE110 VENKATE GOWDA IR

Bonafide students of The Oxford College of Engineering, has completed the project work entitled "DESIGN AND IMPEMENTATION OF RAIL GUN FOR THE MISSILE APPLICATION" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronic Engineering of the Visvesvaraya Technological University, Belgavi during the year 2016-2017. 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 requirement in the respect of seminar work prescribed for the said Degree.

Signature of the Guide

Mrs. Thiruvona Sundari D

Signature of Pri Professor & Hendralmat. Sof BEE he Oxford College of Englishering)r. RV Praveena Gowda

Bommanata Mi 140 ar Road.

Principal

BANGALORE - 560 008.

The Oxford College of Engineering Bommanahalli, Hosur Road Signature With date.

External Viva

Name of the Examiners:

JAYAKIYAR, N 1.

R. GUNASEKARY

The Oxford College of Engineeging

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

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



CERTIFICATE

This is to certify that the following students,

SHAMANTH BC

1OX13EE083

PAPUN

1OX13EE059

VARUN KUMAR V

10X13EE108

SANTHOSH SANKANNAVAR

10X13EE418

Bonafide students of The Oxford College of Engineering, has completed the project work entitled "AUTO POWER SUPPLY CONTROL FROM FOUR DIFFERENT SOURCES USING PIC MICROCONTROLER: MAINS, GENERATOR, INVERTER, SOLAR TO ENSURE NO BREAK POWER" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. Arut Selvi Nagammai

Dr.Bharath V.S

Signature of Principal

Dr. R.V Pravena Gowarda Principal

External Viva

Professor & Head, Dept. of EE Bommanahalli Hossing Professor & Head, Dept. or EE Bommanahalli, Hosur Road The Oxford College of Engineering Bandakin, Canada

Name of the Examiners:

1 Dr. V S. Bhavatt

Bommanahalli, Hosur Road. BANGALORE - 500 068

3hm 22716

The Oxford College of Engineering

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<u>CERTIFICATE</u>

This is to certify that the following students,

RAJU V VERNEKAR **USN: 10X13EE069**

VEERESH T USN: 10X13EE109

VENKATESH NAYAK USN: 10X13EE111

VENKATESH M USN: 10X13EE082

bonafide students of The Oxford College of Engineering, has completed the project work entitled "SINGLE INDUCTOR DUAL OUTPUT BUCK-BOOST POWER FACTOR CORRECTION CONVERTER" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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

External Viva

Degree.

Mrs. Arut Selvi Nagammai

Signature of HOT

Dr. Bharath V.S

Professor & Heed, Dept. of EEEDr. RV Praveena Gowda The Oxford College of Engineering Principal

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

Bommanahalli, Hosur Road

Name of the Examiners:

1. JAYAKUYAR, N

2 R. GUNASERAPY

B Signatute Wallate.

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 "HIGH VOLTAGE DC UPTO 2 KV FROM AC BY USING DIODE AND CAPACITORS IN VOLTAGE MULTIPLIER CIRCUIT" has been carried out by SANDEEP KUMAR CHOUDHARY CHANDAN MANDAL (10X12EE014), SATISH (10X13EE076), JHA(10X12EE066), SATYAJEET MAHATO (10X12EE067) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-17.

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 degree.

Signature of **Project Coordinator** Ms.DEEPA.R

Asst. Professor Dept. of EEE, TOCE. Signature of the Flo Draing

. RV Principala Gowda

Dr. R V. PRAVIEENA

The Oxford ON DATE Engineering

Bommanahalli

Bommanahalli

Name of the Examiners

1. Dr. V.S. Bharam

2. dalillo nuno - a A

Signature with Date

3hm2 23/6/17

The Oxford College of Engineering

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



CERTIFICATE

This is to certify that the following students,

PAVITHRA DV

10X11EE052

PQOJA GP

1OX13EE061

SAHANA HP

10X13EE075

SHUBHADEVI BS

10X13EE419

Bonafide students of The Oxford College of Engineering, has completed the project work entitled "GSM BASED TRANSFORMER PHASE DETECTION AND CIRCUIT BREAKING SYSTEM" in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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.

Mrs. NAVATHA KUMARL Prop

THE PRINCE HIGH. PRAVEENA GOWDA Bommanahalli, Hosur Road, Dr. RV Praveena Gowda

External Viva

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Principal

Name of the Examiners:

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1. JAYAKUMAR. N

Bengaluru-560 068

2. R. GUNASEKARI

Bornmanshalli, Gosur Road, Bengalura Souces. (Affiliasts VIII mit approach v AP. (1)

Department of Mechanical Engineering



Certificate

This is to certify that the Project Report

DESIGN AND DEVELOPMENT OF AUTOMATED GEAR CHANGING SYSTEM USING PNEUMATIC CYLINDER*

Is a bonafied work carried out by

WHAT CHANDRA I TOXISMEDIO CHINDHU PRASAD IDXI2ME022 **LOXISMEUSI** CHISHAU FRANKLIN JOSE TOXISMEGAL

In partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical of the Visvesvaraya Technological University, Belagavi during the year 2016-17. 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 is satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree

Prof. SHIVALINGA M J Asst. Professor, Dept. of ME.

External Viva Name of the Examiners

2.

DOPROPHIAGOR & HEAD Dr. R.V. PRAVEENA GOWDA DEPARTMENT OF MEDINICAL EMMINEERING Dr. R.V. PRINCEL TROCKOWING

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, BANGALORE-560000 the Oxford College of Engine Bomm Signature with date

Bommanahaili, Hosay Road, Benjalung-S60068 (Aminuted to VIII) and approved by ARCLE)

Department of Mechanical Engineering



Certificate

This is to certify that the Project Report

"DESIGN AND FABRICATION OF HYDROPONIC FODDER MACHINE USING SOLAR PANEL"

Is a bonafide work carried out by

PAVAN KUMAR R 1OX12ME072 SHREYAS BR IOX12ME094 GOWTHAM R IOXIIME105 RSATHYA 10X12ME077

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Engineering degree.

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Asst. Professor. Dept. of ME.

THE OXFORD COLLEGE OF ENGINEERING

BOMIDA GUAR BHRANGALORE-550058

Professor & HOD. Dept. of ME.

Dr. R.Y PRAVEEN GOWDA

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Principal The Oxford College of Engineering

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Name of the Examiners

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BOMMANHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by AICTE)

Department of Mechanical Engineering



CERTIFICATE

The project work entitled "DESIGN AND FABRICATION OF WHEEL DRIVEN PESTICIDE SPRAYER "carried out by PRAKASH (IOXI3ME084), PRASHANT B BHANAMASAGAR(IOX13ME085), VINODKUMAR(IOX13ME113), RANJITKUMAR(IOX13 ME416) a confined students of THE OXFROD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELGAUM for the academic year 2016-2017. It is certified that all the corrections/sugestions indicated Assesment have been incorporated in the report deposited in the Department library, project report has been approved as it satisfies the academic requirement in respected project work prescribed for the said Degree.

Guide

prof & Head of the Department

Assist Prof. RAGHU.K

Dr. G S BHATT

OFESNOOD & HEAD DEPARTMENT OF MECONNICAL ENGINEERING Principal
THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road

Dr. PRAVEENA COWDA

Dr. RV Praveena Gowda

Principal

Bengaluru-560 068

EXTERNAL VIVA

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Name of examiner

TIADHO SUDANA RUDOJA

21 Dr. Kiran Blut

Signature with Date

HOSUR ROAD, BOMMANAHALLI, BANGALORE, 560068 (AFFILIATED TO VTU, BELGAUM AND APPROVED BY AICTE) Department of Mechanical Engineering



CERTIFICATE

This is to certify that the project work entitled "FABRICATION OF AUTOMATIC BIKE STAND" is an authentic record of the project work carried out by the students AASHVIN M ISSAC (IOXI3ME003), RAKESH G HIREMATH (IOXI3ME405), in partial fulfillment for award of Bachelor of Engineering in MECHANICAL ENGINEERING from VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2016-2017. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Departmental library. The project report has been approved as it sanshes the academic requirement in respect of project work prescribed for the said degree.

PROF, PRADEEP PATIL

Guide

DR.G.S. BHATT

Professalra, Adapt

Opportment of Mechanical Engineering Dr. R.V. Praveens Gowda

Bornsteinehall, Bungalore 149, Toktord College of Engineering

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DR. PROVEEN COMBL

Principal FOCE

Bommanwhalli, Hosor Hoad

Beogalung-560 OSB

Signature with Date

Name of Examiners

1. Dr. Hiron Black

2 Madhi Sada Reag A

Bonmanahalli, Hosur Road, Bengaluru-560068 (Athlaned to VTU and approved by AICTE)

Department of Mechanical Engineering



CERTIFICATE

his is to certify that the Project work entitled "DESIGN AND OPTIMISATION OF CONNECTING ROD USING C-70 STEEL AND CARBON FIBER EPOXY" is an authentic econd of the project work carried out by the students HEMANTH KUMAR H B (IOX14ME406), MADEVA IOX14ME409), ROHAN AHMED(IOX14ME412), SHARANABASAVA (IOX14ME414) in partial alfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering from Visvesvaraya Technological University, Belagavi during the year 2016-17, it is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it is satisfies the academic requirements in respect of Project Work prescribed for the Buchelot of Engineering degree.

Mr. RAHUL D Unide, Asst. Professor TOCE

Name of the Examiners

DR. GS BHATT Professor & HOD, Dept. of ME. Prof. & Hour

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Dr. R.V PRATRENA GOVERNO

Principal, TOCEprincipal

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Signature with date

MADHU RUDANA PLOOTS

2 Dr. Kings Rl.

Bommanihalli, Hosir Road, Bengalum-500068 (Althurd as VIU and approved by AlCTI)

Department of Mechanical Engineering



CERTIFICATE

This is to certify that the Project Report on

"DESIGN AND FABRICATION OF SPEED BREAKERS FOR POWER GENERATION AND AIR COMPRESSION ON ROAD WAYS"

Is a bonafied work carried our by

Mohammed Mosaib Rayhan Khan R (10X13ME068) N Krishna Nauda (10X13ME073)

Vollin Kein Braganza (10X13ME116)

Yogesh Prasad R (10X13ME117)

In partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical of the Visvesvaraya Technological University, Belagavi during the year 2016-17. 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 is satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

PROFESSION & HEAD

DEPARTMENT OF MECHANICAL ENGINEERING THE OXFORD COLLEGE OF ENGINEERING BY WARLING BANGALORE-ERIOSE

RANGUP

Assistant Professor, Dept. of ME

TOCE

Dr G SRINIVAS BRATT

Professor & HOD, Dept. of ME

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Bernmannhalli, Hesur Road, Bengalum-560068 (Aftilization VTO and approved by ARCD)

Department of Mechanical Engineering



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PROFESSOR & HEAD DEPARTMENT OF MECHANICAL ENGINEERING THE OXFORD CHILESE OF ENGINEERING

RANGUP Assistant Professor, Dept. of ME. TOCK

BOW THE BANGALORE - 3600000 DI G SRINIVAS BHATT

Professor & HOD, Dept. of ME. TOCK.

DENKON THROUGHT AND DA Principal, 100 E.

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Signature with date.

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Name of the Examiners

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Department of Mechanical Engineering



Certificate

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"DESIGN AND FABRICATION OF HYDROPONIC FODDER MACHINE USING SOLAR PANEL"

Is a bonafide work carried out by

PAVAN KUMAR R	10X12ME072
SHREYAS B-R	10X12ME094
GOWTHAM R	TOXIIME103
RSATHYA	10X1251E077

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Dr. R.V PRAVEEN GOWDA Pondjul, TOCK Dr. R.V. Praveena Gowda

Principal.
The Oxford College of Engineering Bommanaballi, Historistand Bengaturu-560 068

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Name of the Examiners

with date

1. Dr Kiran Rhat &

2. Male santige Good

Department Of Mechanical

THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the Project work entitled DESIGN AND FABRICATION OF AUTONOMOUS LAWN MOWER USING SOLAR ENERGY" carried out by SHASHIDHAR MP [IOX12ME092] PRAVEEN KUMAR V K[IOX13ME088]. SUNDAR KANTH S J[10X14ME419], GIRIDHAR G[10X13ME044] a confide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment 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 Seminar report has been approved as it satisfies the academic requirements in respect of Seminar work prescribed for

my Degree

Signature of Guide

MEMUDASSIR KHAN

Asst Prof. Dept. of ME

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DEPARTMENT OF G.S. BHAT LENGINEERING DER PRAVERYA GOWDA

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TOCE

Signature of Principal

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Name of the Examiners

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Department of Mechanical Engineering



CERTIFICATE

This is to certify that the project work entitled "DESIGN AND FARBICATION OF PORTABLE PNEUMATIC CAR CHASSIS WASHING MACHINE" has been med on by UMAIR NAZEER (IOX12ME107) VIKASH KUMAR SONI (IOXI2MEI12), BALAJI E (10X13ME029) BASAVARAJ ARAKERI (10X14ME402), in partial fulfillment for the award of Bachelor of Engineering In Mechanical Engineering of Visvesvarava Technological University, Belgaum during the year 2016-2017. It is certified that all suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project separa has been approved as it satisfies the seademic requirements in respect of project. work prescribed for the said Degree of Bachelor of Engineering.

Dr. Praveena Gowda Mr. Ashok Kumar R T Dr. G.S. Bhatt PROFESSSOR & HEAD

CSPENDEN CONTRACTOR ENGINEERING Princip

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A VENCLORE-SSCOOTHE Oxford Collain Engineerin Sommanhall, Monut Road

Signature with Date Beigeluru- 500 068

Name of Examiners

14/18/1/19

Borumanahalli, Hosar Road, Bengaluru-560068 (Allitated to VPU and approved by AJCT)

Department of Mechanical Engineering



Certificate

This is to certify that the Project Report

*DESIGN AND DEVELOPMENT OF WINDMILL FOR POWER GENERATION USING PERMANENT MAGNETS"

Is a bonafied work carried out by

JOEL & MATHAI SUBEN JOHN BABU MITHUN W NAIR ABDURAHMAN K.

IOXI3ME054 IOXISME104 IONIME067 IONISME005

In partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical of the Visvesvaraya Technological University, Belagavi during the year 2016-17, 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 is satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

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Prof MARUTHI KUMAR ER Asst. Professor, Dept. of MI.

PROFESSIOR & HEAD BUNGENEAUROB, Dept. of ME. D. D. R. V PRAVEEN GONDA DEPARTMENT OF

External Viva Name of the Examiners

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Department of Mechanical Engineering



CERTIFICATE

The project work entitled "DESIGN AND DEVELOPMENT OF ELECTRO-MAGNETIC BRAKING SYSTEM "carried out by G DEVARAJ (10X13ME042),GIRISH NAIK LC(10X13ME045), DHANRAJ K V(10X13ME037) a confined students of THE OXFROD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELGAUM for the academic year 2016-2017. It is certified that all the corrections/sugestions indicated Assesment have been incorporated in the report deposited in the Department library, project report has been approved as it satisfies the academic requirement in respected project work prescribed for the said Degree.

Guide

Prof. FIROZ KHAN

PROFESSIOR & HEAD

DEPORTAL HORING THAT DEPARTMENT ING THE DXFORD COLLEGE OF ENGINEERING

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Principal

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Bengaluru-560 068

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Name of examiner

Signature with Date

1) Prasad H Nagale

2] Ifmater Royle

16/17

HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068 (AFFILIATED TO VTU, BELGAUM AND APPROVED BY AICTE) Department of Mechanical Engineering



CERTIFICATE

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PROF, PRADEEP PATIL

Guide

DR.G.S. BHATT

Prof. & Head

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Name of Examiners

1. Dr. 28/6/17

BOMMANHALLI, HOSUR ROAD, BENGALURU-56068

(Affiliated to VTU and approved by AICTL)

Department of Mechanical Engineering



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Guide

Prof. EROZ KHAN

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLY, BANKALORE-560058

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Signature with Date

17 Prosad H Nayale

1 18/1/17

Bommanahalli, Hour Road, Bengalum-560008 (Affiliated to VTC and approved by AICTO)

Department of Mechanical Engineering



Certificate

This is to certify that the Project Report

"DESIGN AND FABRICATION OF HYDROPONIC FODDER MACHINE USING SOLAR PANEL"

Is a bonafide work carried out by

PAVAN KUMAR R	IOXI2ME072
SHREYASBR	10X12ME094
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THE OXFORD COLLEGE OF ENGINEERING BOMPAN RUSAL S BALGAL DRE-560068

Professor & HOD. Dept. of ME.

SUHAS V Asst. Professor. Dept. of ME

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CERTIFICATE

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PROF. PRADEEP PATIL

DR.G.S. BHATT

DRARAVERYA GOWDA

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Name of Examiners

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Department of Mechanical Engineering



CERTIFICATE

This is to certify that the project work entitled "DESIGN AND FARBICATION OF SOLAR BASED AGRI ROBOT" has been carried out by AMIT KULKARNI (IOX14ME400), BHARATH S (IOX14ME403), SUMAN S (IOX14ME418), VILAS S H (IOX14ME422) in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum during the year 2016-2017. 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.

Mr. ANUP M UPADHYAYA

Internal guide

W

Dr. G SRINIVAS BHATT

Professor & Head

PROFESSION & HEAD

DEPARTMENT OF MECHANICAL ENGINEERING THE OXFORDICKTEROALNENGERING BOMMANAHALLI, BANGALORE-560068

Name of the Examiners

Dr. Praveen Gowda

Principal, TOCE

Dr. RV Prayeena Gowda Principal

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

Signature with date

Al refilm

Department Of Mechanical

THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068

DEPARTMENT OF MECHANICAL ENGINEERING.



CERTIFICATE

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my Degree.

Signature of Guide

Mr.MUDASSIR KHAN

Asst Prof. Dept. of ME

TOCE

Signature of HOD

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Signature of Principal DER VERAVEENA GOWDA

DEPARTY FOR AND HOD DEED, SPANNEERING R. R. VIE PANCIFIER GOWIDE
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Bengaluru-560 068

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Name of the Examiners

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Methal Sanden Seats

Signature with Date

Bommandhalli Hour Road, Bengaluru-560068. (Affiliated to VII) and approved by AlCTF-

Department of Mechanical Engineering



Certificate

This is to certify that the Project Report

*DESIGN AND DEVELOPMENT OF AUTOMATED GEAR CHANGING SYSTEM USING PNEUMATIC CYLINDER"

Is a bonafied work carried out by

AMAL CHANDRA J TOXISMEDI6 CHINDIII PRASAD TOXI2ME022 TOXI3ME031 CJISHNU TOXI3ME041 FRANKLIN JOSE

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Prof. SHIV ALINGA M.J. Aut. Professor, Dept. of MI.

External Viva Name of the Examiners

PROPESSSOR & HEAD DEPARTMENT OF MECHANICAL ENGINEERING

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Boromannhalli, Hosur Road, Bengslura-560068 (Alfilliantin VIV and appropriately Alf Tro

Department of Mechanical Engineering



Certificate

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"DESIGN AND FABRICATION OF PNEUMATIC THREE AXIS DIMENSIONAL PROTOTYPE TROLLEY"

Is a bonafied work carried out by

TOXI3ME108 S.M. USMIAN FOXE3ME069 MOHAMMED ISRAR.S IOXI3ME070 MOHAMMED TANZEEM IOXI2ME005 AJEET KUMAR SHUKLA

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Mr. SHIVA SHESHADRI Asst. Professor, Dept. of ME.

Dr. GS BHATT Professor & HOD, Dept. of ME Dr. R.V PRAVEEN GOWD Principal, TOCE

Dr. RV

Prof. & Head

Department of Machanian Engineers The

The Osford College of Engineering Bommanumille, Bungalore - 550 065 Signature with date

External Viva

Name of the Examiners

1. Dr. Kiran Bhail

MAD HU STOAHA RHONG

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

Department of Mechanical Engineering



Certified that the project entitled "IMPLEMENTATION OF SPEED BREAKERS NEAR RAILWAY TRACKS FOR POWER GENERATION WITH LIGHT AND GATE CONTROL" carried out by SUMIT CHOUDHARY (IOXI3ME105). SHAKEEB ULLA BAIG (IOXI3ME095), RIHAD PALLIMANATHATTIL (IOXI3ME091), JENIL JACOB (IOXI1ME031), bonafied students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the year 2016-17, It is certified that all 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

Project Guide

G. Scinical, Hieldo

Dr. R.V. Praverna Gowda

Principal, TOCE

DEPARTMENT OF HAOLD GOAL ENGINEERING THE OXFORD COLLEGE OF ENGINEERINGS. R.V.D. BOMMANAMAIE LIBRAGE VERE-550158

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Signature with Date

Name of the Examiners

Lose VOW

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

Department of Mechanical Engineering



CERTIFICATE

This is to certify that the project work entitled "DESIGN AND FARBICATION OF PORTABLE PNEUMATIC CAR CHASSIS WASHING MACHINE" has been carried out by UMAIR NAZEER (IOX12ME107) VIKASH KUMAR SONI (IOX12ME112), BALAH E (IOX13ME029) BASAVARAJ ARAKERI (IOX14ME402), in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum during the year 2016-2017. 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.

Mr. Ashok Kumar R T Dr. G.S. Bhatt Dr. Prayeena Gowda

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Internal Guide

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Name of Examiners

Signature with Date

1. Prasad H. Nagak 2. If what High and 8/00/01/12

Bommanaballi, Flosur Road, Bengalum-500068. (Affiliaget in VTU and approved by ARCIE)

Department of Mechanical Engineering



Certificate

This is to certify that the Project Report

*DESIGN AND FABRICATION OF HYDROPONIC FODDER MACHINE USING SOLAR PANEL"

Is a bonafide work carried out by

PAVAN KUMAR R	10X12ME072
SHREYAS B R	1OX12ME094
GOWTHAM R	10X11ME105
R SATHYA	TOX12ME077

In partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical of the Visvesvaraya Technological University, Belagavi during the year 2016-17. 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 is satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of

Engineering degree.

THE OXFORD COLLEGE OF ENGINEERING

SUHAS V Asst. Professor. Dept. of ME

BOMBULGIAL BLANDALORE-560068

Professor & HOD. Dept. of ME

Dr. R.V PROVEEN GOWDA

Dr. RV Fraveena Gowda

Principal

The Oxford College of Engineering Bommanahalli, Hosur Bonde Sengaluru-560 068

External Viva

Name of the Examiners

1. Dr. Kison Blot & 28/6/10 2. Hadhe see Pag 9 98/6/12

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, BANGALORE 560 068

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certify that the project report entitled "DESIGN AND DEVELOPMENT OF PLASTIC RECYCLING MACHINE" carried out by KARETHA JIGNESH (IOX08ME020), PRASAD DAVBHAT (IOX09ME022), SIDDHARTH MITRA (IOX10ME083), SIDHARTH R KRISHNA (IOX11ME089), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the academic year 2016-2017.

It is certified that all correction/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 Bachelor of Engineering degree.

Mr. ASHOK KUMAR T

Project Guide

THE OXFORD COLLEGE OF ENGINEERING STORY College of Engineering

SOMMAN ENTER SANGUARE - 560068Bommanahalli, Hosur Road

Bengaluru - 560 068

Name of Examiners

Signature with Date:

1. Krasad H Nayuh 2. Handen Voya gelocko 1. 14-15/6/17

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THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, BANGALORE 560 068

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certify that the project report entitled "DESIGN AND DEVELOPMENT OF PLASTIC RECYCLING MACHINE" carried out by KARETHA JIGNESH (IOX08ME020), PRASAD DAVBHAT (IOX09ME022), SIDDHARTH MITRA (IOX10ME083), SIDHARTH R KRISHNA (IOX11ME089), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the academic year 2016-2017.

It is certified that all correction/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 Bachelor of Engineering degree.

Mr. ASHOK KUMAR T Dr. G. SRININAS BHAATI Dr. R.V. PRAYEFNA GOWDAN

Project Guide

DEPARTMENT OF MH-Ox D AL ENGINEERING T. Principal, TOKE

THE OXFORD COLLEGE OF ENGINEERING
Bommanahali, Hoaur Road
Bommanahali, Hoaur Road
Bommanahali, Hoaur Road
Bengeluru-560 068

Signature with Date:

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Department Of Mechanical

THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the Project work entitled DESIGN AND FABRICATION OF AUTONOMOUS LAWN MOVER USING SOLAR ENERGY" carried out by SHASHIDHAR MP [IOXI2ME092], PRAVEEN KUMAR V K[IOXI3ME088], SUNDAR KANTH S J[IOXI4ME419], GIRIDHAR G[IOXI3ME044] a confide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment 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 Seminar report has been approved as it satisfies the academic requirements in respect of Seminar work prescribed for

my Degree-

Signature of Guide

MEMUDASSIR KHAN

Asst Prof, Dept, of ME

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Signature of Vancipal
DER V PRAVEENA GOWDA

The Principal --

Dr. R Principal a Gowda

The Oxford College of Engineering Bommacahalli, Hosur Road Bengaluru-550 068

External Viva-Voice

Name of the Examiners

. Do lynen Bhout

· North Santa Ray

Signature with Date

495

Hosur Road, Bommunahalli, Bangalore-S60068 (Affiliated to VTU and approved by AICTE)

Department of Mechanical Engineering



CERTIFICATE

This is to certify that the project work entitled "DESIGN AND FARBICATION OF SOLAR BASED AGRI ROBOT" has been carried out by AMIT KULKARNI (IOXI4ME400), BHARATH S (IOXI4ME403), SUMAN S (IOXI4ME418), VILAS S H (IOXI4ME422) in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum during the year 2016-2017. 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

Mr. ANUP M UPADHYAYA

Internal guide

4,

Name of the Examiners

Brazad . H Nayati 1 Kinden - Kingar OBUM NO

Dr. G SRINIVAS BHATT

Professor & Head

PROFESSISOR'S HEAD
DEPARTMEN FOX DEPARTMENT FOX DEPARTMENT FOX DEPARTMENT FOX DEPARTMENT FOR THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, EMIGALORE-SECOSS

BOMMANAHALLI, EMIGALORE-SECOSS

Dr. Praveen Gowda

Principal, TOCE

Dr. RV Prayenna Cowea

The Oxford College of Engineers Bommanatholi, Hosur Road Bennahau-560 068

Signature with date

11/6/17

Beningspales Howe Board Bangahir Section Afther the Asset

Department of Mechanical Engineering



Certificate

This is to certify that the Project Report

"DESIGN AND DEVELOPMENT OF VEHICLE EXHAUST SYSTEM FOR POWER GENERATION"

Is a bonafied work carried out by

SIDRAM **LOXIOME101** SURESH KUMAR LOXI3ME106 RAVI KUMAR TOXESMETTS: JEE TAPPA LOXI4ME407

In partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical of the Visvesvaraya Technological University, Belagavi during the year 2016-17. 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 is satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

Mr. PRASAD H NAVAK And, Prufemur, Dept. of MI.

External Viva Name of the Examiners

2. Howard H. Nayale

THE OXFORD EDILECE OF ENGINEERING BOMMAIDING 6 BHATTER SCOOKS Professor & HOLD, Dopt of SD.

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The Oxford College of a property Bommananahi, Tyang Road

Bang Signatific with date

Bommanahulli, Hosur Road, Bengaluru-560068 (Affiliated in VTU and approved by AICTE)

Department of Mechanical Engineering



CERTIFICATE

This is to certify that the Project work entitled "DESIGN AND FABRICATION OF PNEUMATIC PUMPING UNIT USING GEAR MECHANISM FOR POWER GENERATION" is an authoritic record of the project work carried out by the students MUTHU SELVAN D (IOXI3ME071), NAGENDRA B S (IOX13ME074), VINAY A R (IOX13ME111), VISHAL KHANNA V (IOX13ME114) in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering from Visvessaraya Technological University, Belagavi during the year 2016-17. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it is satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree

ME-VIDYADHAR PUJAR Guide, Asst. Professor TOCE

One art DELG SBHATTE Engineering Professor & HOD; Dept of ME mring

External Viva

Dr. R.V. PRAMEENA GOWDA Principal, TOCE

The Oxford College of English Sommanahall House Road

Signature with date

Name of the Examiners

HOSER ROAD, BOMMANAHALLI, BANGALORE-560068 (AFFILIATED TO VIU, BELGAUM AND APPROVED BY AICTE) Department of Mechanical Engineering



CERTIFICATE

This is to certify that the project work entitled FABRICATION OF APP CONTROLLED HYDRAULIC JACK USING BLUETOOTH"is an authentic record of work carried out by the students. AMIT SUTRADHAR (IOXI3ME019), NARAYAN GUDI (IOXI4ME410), SOORAJ J S (IOXI3ME119), VISHNUDEV S M (10X13ME120)in partial fulfillment for award of Bachelor of Engineering MECHANICAL **ENGINEERING**from VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2016-2017, It is certified that all corrections and 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 requirement in respect of project work prescribed for the said degree

PROF. FIROZ KHAN

DR.G.S. BHATT

DR.PRAVEENA GOWDA

Guide

Professor W Head Department of Machanical Engineer The Oxford College of Engineer

The Cators College of Conveying Bommananada, Sungaine 100 703

External Viva

Principal VIOCIPena Goveda

Principal Bommanahani, Finsor Road Bengaluru-550 068

Name of Examiners

Signature with Date

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

Department of Mechanical Engineering



NEAR RAILWAY TRACKS FOR POWER GENERATION WITH LIGHT AND GATE CONTROL," carned out by SUMIT CHOUDHARY (IOXI3ME105), SHAKEEB ULLA BAIG (IOXI3ME095), RIHAD PALLIMANATHATTIL (IOXI3ME091), JENIL JACOB (IOXI1ME031), bonafied students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi during the year 2016-17. It is certified that all 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. SATISH D.G

Project Guide

Dr. G. Sriniya & Bhatta D

Dr. R.V. Praveena Gowda

DEPARTMENT OF NOTIFICAL ENGINEERING THE OXFORD COLLEGE OF ENGINEERING DI

BOMMANAHAELRANATA NE -550068

Principal, TOCE

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Signature with Date

Name of the Examiners

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- Hordenson

Department Of Mechanical

THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068.

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the Project work entitled DESIGN AND FABRICATION OF AUTONOMOUS LAWN MOWER USING SOLAR ENERGY" carried out by SHASHIDHAR MP [IOX12ME092], PRAVEEN KUMAR V K[IOX13ME088], SUNDAR KANTH S J[IOX14ME419], GIRIDHAR G[IOX13ME044] a confide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment 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 Seminar report has been approved as it satisfies the academic requirements in respect of Seminar work prescribed for

my Degree

Signature of Guide

Mr.MUDASSIR KHAN

Asst Prof. Dept, of ME

TOCE

DEPARTMEN DEGLE BHATCAL ENGINEERING OF V PRAVEENA GOWDA

BOMBANAHALLI, BARGALORE-55006 Dr. R V Praveona Gowda

TOCE

gnature of Principal

TPOEpipal

The Oxford College of Engineering Bommanahalli, Hosar Road Bengaluru-560 088

External Viva-Voice

Name of the Examiners

Dr. Kiten B. of

tedle Somethy

Bogumanahalli, Hosur Road, Bengahara-560068 Affiliated to VTII and approved by AICTE

Department of Mechanical Engineering



Certificate

This is to certify that the Project Report

"DESIGN AND FABRICATION OF HYDROPONIC FODDER MACHINE USING SOLAR PANEL"

Is a bonafide work carried out by

PAVAN KUMAR R 1OX12ME072 SHREYAS BR IOX12ME094 GOWTHAM R IOXIIME105 RSATHYA IOX12ME077

In partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical of the Visvesvaraya Technological University, Belagavi during the year 2016-17. 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 is satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of

Engineering degree.

SUHAS V

Asst. Professor. Dept. of ME

THE OXEGRO COLLEGE OF ENGINEERING BOMM Professor & HOD,

Dept. of ME

Dr. R. V PRAMEN GOWDA

Principal, TOCK R.V. Prayeena Gowda

Principal

The Oxford Callege of Engineering Bommanahalli, Hosur Road Bengalutu-565igsature

External Viva

Name of the Examiners

1. Dr. Kissen Bhat & 18/6/17 2. Missen Bhat & 18/6/17

Department Of Mechanical

THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI HOSUR ROAD, BENGALURU-560 068

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the Project work entitled DESIGN AND FABRICATION OF AUTONOMOUS LAWN MOWER USING SOLAR ENERGY" carried out by SHASHIDHAR MP [10X12ME092] PRAVEEN KUMAR V K[10X13ME088]. SUNDAR KANTH S J[10X14ME419], GIRIDHAR G[10X13ME044] a confide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment 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 Seminar report has been approved as it satisfies the academic requirements in respect of Seminar work prescribed for

Signature of Guide

my Degree.

Mr.MUDASSIR KHAN

Axst Prof, Dept, of ML

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Signature of Principal

The Principal

Dr. RV Praveena Gowda

The Oxford College of Engineering Bommana all Hosur Road Bengeluru-550 005

External Viva-Voice

Name of the Examiners

Dr. Wires Blan

Modher Salam Blog 5

Signature with Date

Boromanahalli, Hosur Road, Bengalura-560068 (Affiliated to VTU and approved by AICTE)

Department of Mechanical Engineering



Certificate

This is to certify that the Project Report

*DESIGN AND DEVELOPMENT OF WINDMILL FOR POWER GENERATION USING PERMANENT MAGNETS"

Is a bonafied work carried out by

JOEL E MATHAI SUBIN JOHN BABI MITHUN M NAIR ABDURAHMANK

TOXISMEDS I 103313ME104 IOXI3ME067 LOXISME005

In partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical of the Visvesvaraya Technological University, Belagavi during the year 2016-17. 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 is satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

Prof MARUTHI KUMAR LR

Asst. Professor, Dept. of MF

External Viva

Name of the Examiners

he Oxford Ebugge to engineering

Bommanahalli, Hosur Ross Bengaturu-560 068

Bommunahalli, Hesar Read, Bengaluru-560068 (Affiliated to VTI). Approved by AICTE, NEW DELHI)

Department of Mechanical Engineering



CERTIFICATE

This is to certify that the Project Report

"DESIGN AND STRUCTURAL OPTIMIZATION OF A CAR CHASSIS UNDER STATIC LOADING CONDITIONS"

Is a bonafied work carried out by

NANDAN KUMAR T D PRASHANTH SAI KIRAN P SHIVA KUMARA VIKRAM K

IOXI3ME076 IOX13ME086 HOXI3ME098 IOXI3ME110

In partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical of the Visvesvaraya Technological University, Belagavi during the year 2016-17. 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 is satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

Mr. RAVI PRAKASH M DEPARTMENT OF RECHANGE OF ENGLISHING THE SPECIAL HOD, Dept. of ME

External Viva

Name of the Examiners

The Oxford Col. IIII I Bonemisemak

Signature with date

BOMMANHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by AICTE)

Department of Mechanical Engineering



CERTIFICATE

The project work entitled "DESIGN AND FABRICATION OF WHEEL DRIVEN PESTICIDE SPRAYER "carried out by PRAKASH (IOXI3ME084), PRASHANT B. BHANAMASAGAR(10X13ME885), VINODKUMAR(10X13ME113), RANJITKUMAR(10X13 ME416) a confined students of THE OXFROD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELGAUM for the academic year 2016-2017. It is certified that all the corrections/sugestions indicated Assesment have been incorporated in the report deposited in the Department library, project report has been approved as it satisfies the academic requirement in respected project work prescribed for the said Degree.

Principal Guide prof & Head of the Department WDA Dr. G S BHATT Dr. PRAVEENA Assist Prof. RAGHU.K. Dr. RV Praveena Gowda Principal The Oxford College of Engineering PROFESSIOR & HEAD Bommanahalli, Hosur Road DEPARTMENT OF MECHANICAL ENGINEERING Bengaluru-560 068 THE OXFORD COLLEGE OF ENGINEERING EXTERNAL VIVA

Signature with Date Name of examiner SL.NO MADHO SUDAHA PUNDY G. 11 Dr. Kiron Blad-21

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "DESIGNING OF ENZYME BASED BIOSENSOR FOR THE DETECTION OF HEAVY METAL IONS IN DRINKING WATER" carried out by AFNA SAFIA (10X13BT002), bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visveswaraya Technological University, Belgaum, during the year 2016-17. 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.K.Valarmath Signature of the Guide

Name of the examiners

External Viva

sum Paul Signature of the HOI

> Dr. Kusum Paul Prof. & Head

Signature of the Principal Dr. RV Praveena Gowda

Principal The Oxford College of Engineering Department of SiotechnologyBommanahalli, Hosur Road

Dr. R. Praveena Gowda

The Oxford College of Engg. Bangalore - 560 068.

Bergghalltre While Bate

1/11

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "Study on medicinal property of Rubia cordifolia, Mesua ferea and Pterocarpus marsupium" carried out by Mr. Ajay Kumar Yadav, USN 10X13BT003 and Mr. Sudeep Raj, USN 10X13BT0031, bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visveswaraya Technological University, Belagavi during the year 2016-17. 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.

External Viva

Name of the examiners

Signature of the HOD

Prof. & Head

Department of Siotechnology The Oxford College of Engg.

Bangalore - 560 068.

Signature with date

Principal

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "Isolation, Characterization and Partial purification of Bioactive compound from Actinomycetes Species, isolated from Western Ghats, Karnataka, India " carried out by D SHASHIKALA USN 10X13BT010, bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visveswaraya Technological University, Belgaum during the year 2016-17. It is certified that all corrections/suggestions indicated during Internal assessment have been incorporated in the report and 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.

HOD Dept. of BT

Dr. Kusum Paul Prof. & Head

Department of siotechnology The Oxford College of Engg. Bangalore - 560 068.

Dr.R.V.Praveena Gowda Principal TOCE

Dr. RV Praveena Gowda Principal

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

External Viva

Name of the examiners

Signature with date

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "Designing of a cost effective, reliable, user-friendly and portable biogas plant for the production of biogas from biodegradable waste" carried out by Ms. VARUNI. M. ANKOLEKAR USN 10X13BT036 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 2016-17. 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. Kusum Par Signature of the HOD

Dr. Kusum Paul

Bangalore - 560 068.

Prof. & Head

Signature of the Principal Dr. RV Praveena Gowda Principal

Dr. R. V. Praveena Gowda

Department of Jiotechnology Bommanahalli, Hosur Road

Bennalus 560 000 Bengaluru-560 068

External Viva

Name of the examiners

Signature with date

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "Design and Analysis of Hollow Fiber Based Microfluidic System for Haemodialysis" carried out by ARPITHA B (10X13BT007), DIVYASHREE S (10X13BT013), MONISHA M (10X13BT020) and SPOORTHY S SUNDAR (10X13BT029), 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, Belagavi during the year 2016-17. It is certified that all corrections/suggestions indicated for Internal and External 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.Shambu M G Asst. Professor Dept of BT, TOCE

Dr. Kusum Paul Prof and Head Dept of BT, TOCE

Dr. Kusum Paul Prof. & Head

.V.Praveena Gowda Principal,

Dr. RV Fraveena Gowda

The Oxford Collage of Engineering Department of Siotechnology Bommanahalli, Hosur Road The Oxford College of Engg. Bengaluru-560 068

Bangalore - 560 068.

Signature with date

Name of the examiners

External Viva

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "Study of the Quorum sensing inhibitors derived from plant source Syzygium aromaticum for increased susceptibility of Staphylococcus aureus and Staphylococcus epidermidis biofilm" was carried out by Ms. Kavya L B (USN 10X13BT015), bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of degree of Bachelor of Engineering in BIOTECHNOLOGY of the Visveswaraya Technological University, Belagavi during the year 2016-17. 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. Salma Kausar Signature of the Guide

External Viva Name of the examiners Signature of the HOD

Dr. Kusum Paul

Prof. & Head

Bangalore - 560 068.

The Oxford College of Engg.

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

Principal The Oxford College of Engineering

Department of Siotechnology Bommanahalli, Hosur Road Signatura with state 68

BOMMANAHALLI, BANGALORE - 560068

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "Studies on Anti-cancer potency of Pterocarpus santalinus and Simarouba glauca" carried out by Ms. DEVI ARPITHA M (USN: 10X13BT011), a bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visveshwaraya Technological University, Belagavi during the year 2016-17. 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.

External Viva

Name of the examiners

Signature

Dr. Kusum Pau Prof. & Head

Department of siotechnology The Oxford College of Engg.

Bangalore) 560 068.

Signature of the Principal Dr. RV Phayeena Gowda **Firingipal**

The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluhi - 360 068

7/11

(Affiliated to Visvesvaraya Technological University, Belagavi)

Bommanahalli, Bengaluru – 560068

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "Evaluation of anti-inflammatory and anticancer activity of natural compounds (Western Ghats, Karnataka) and their QSAR modelling, ADMET property analysis through insilico approach" carried out by Ms SHILPA.S (10X12BT024), KUSUMA.V (10X13BT016) & SATISH KUMAR.A (10X13BT024) 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, Belagavi during the year 2016-17. 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.Shambu M.G

Assistant Professor
Dept of Biotechnology

External Viva

Name of the examiners

Dr. Kusum Paul Head of the Dep Dept of Biotechnology

Prof. & Head
Department of Siotechnology

The Oxford College of Engg.

Bangalore - 560 068.

Principal Principal

Dr. RV Fraveena Gowda

The Oxford College of Engineerin Bommanahalli, Hosur Road

Bersighalure Raly Bale

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "Screening of novel phytochemical, cytotoxic, antiangiogenic compounds effective against majority types of cancer" carried out by Ms. Praveena.D (USN: 10X13BT021) & Sarwath Fathima (USN: 10X13BT023) 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 2016-17. 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.

Tamesre Bhattachas Dr. Kusum Pau Mrs. Tanusree Bhattacharya Dr. R. V. Praveena Gowda Signature of the HOD Signature of the Guide Signature of the Principal Dr. RV Praveena Gowda Dr. Kusum Paul External Viva Principal Department of Siotechnology Roman College of Engineering The Oxford College of Engg. Name of the examiners 560 068. Bankalore

(Affiliated to Visvesvaraya Technological University, Belagavi)

BOMMANAHALLI, BANGALORE - 560068

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "Isolation and Characterization of plant lectins and In vitro study of their biological activity" was carried out by Raghavi G (10X13BT022), Rajalakshmi V (10X14BT400), Vasudha T K (10X13BT037), 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, Belgaum during the year 2016-17. 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. Suma T.K
Signature of the Guide

Dr. Kusum Paul Signature of the HOD

> Dr. Kusum Paul Prof. & Head

Department of siotechnology The Oxford College of Engg. Ba. 0.068. Dr. R.V. Praveena Gowda

Signature of the Principolda Dr. RV Praveena Gooda

Principal
The Oxford College of Engineering

ne Oxford College of English Bommanahalli, Hosur Road Bengaluru-560 068

Signature with date

Name of the examiners

External Viva

Vo Sarafr

2. 04. 7 034

Dept. of BT, TOCE

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

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that the project work entitled "Decontamination of Hydrocarbon contaminated soil using Bioremediation techniques" carried out by Ms. SUMEDHA S, USN 10X13BT032, 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, Belagavi during the year 2016-17. 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 Dr. Kukum Paul Signature of the HOD

Dr. Kusum Paul Prof. & Head

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

Department of siotechnology Bomm Signature with Jalead

The Oxford College of Engg. Bengaluru-560 068 Bangalore - 560 068.

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

Department of Civil Engineering



CERTIFICATE

Certified that the project work entitled "TRAFFIC AND TRANSPORTATION PLANNING
FOR OUTER RING ROAD" which is carried out by AYSHA AHMED

(10X13CV027), CHETHAN PRASAD ... (10X13CV057),
CHHEWANG (10X14CV403) a confide students of THE OXFORD COLLEGE OF
SHERPA
ENGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING
of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI 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 our Degree.

Mr. MAHADEV PRASAD N Dr. AMARNATH K

Asst. Prof,

Dept. of Civil Enginnering TOCE, BANGALORE

Dept. of Civil Engineering

TOCE, BANGALORE

TOCE, BANGALORE Dr. RV Praveena Gowda

Dr. V PRAVEEN GOWDA

PRINCIPAL

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

Name of the Examiners

Examiner 1.

Examiner 2

Signature with Date

adec ro

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

Department of Civil Engineering



CERTIFICATE

Certified that the project work entitled STUDY ON FLEXURAL BEHAVIOUR OF
REINFORCED GEOPOLYMER CONCRETE BEAMS" carried out by PRASHANT SUBBA
(10X13CV027), ABDUL SAMI (10X13CV053), PRASANNA KUMAR
(10X13CV057),
PRAVEEN M V (10X14CV403) a confide 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 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 our Degree.

Mr. MAHADEV PRASAD N Dr. AMARNATH K

Asst. Prof,

Dept. of Civil Enginnering

Dept. of Civil Engineering

TOCE, BANGALORE

TOCE, BANGALORE

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

Dr.KYPRAYEEN GOWDA

TOCE, BANGALORE Dr. RV Praveena Gowda

Principal

Name of the Examiners

Examiner 1.

Examiner 2

Signature with Date

ale N

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

Department of Civil Engineering



CERTIFICATE

Certified that the project work entitled "WATER QUANTITY ANALYSIS OF BELLANDUR LAKE AND REMOVAL OF PHOSPHATES USING LOW COST ADSORBENT",

Carried out by RANJITHA (10X13CV053), ABDULA SHOEB (10X13CV057), ABHINIT KUMAR(10X14CV403) a confide 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 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 our Degree.

GUIDE

HOD

Mr. MAHADEV PRASAD N Dr. AMARNATH K

Asst. Prof,

Dept. of Civil Enginnering

Dept. of Civil Engineering

TOCE, BANGALORE

TOCE, BANGALORE

Dr.K V PRAVEEN GOWDA

TOCE, BANGALORE Dr. RV Praveena Gowga

Principal

Bommanahalli, Hosur Road Bengaluru-560 068

The Oxford College of Engineerin

Name of the Examiners

Examiner 1.

Examiner 2

Signature with Date

· der ro

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

Department of Civil Engineering



CERTIFICATE

Certified that the project work entitled "PERVIOUS CONCRETE"

carned out by

ARON M

1OX13CV008

BHARATH KUMAR. S

1OX13CV042

BHARATH. S

10X13CV43

BINDIYAHP

10X13CV025

a confide students of THE OXFORD COLLEGE OF

NGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING for the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the cademic 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 roject work prescribed for our Degree.

GUHDE

HOD

4r. MAHADEV PRASAD N Dr. AMARNATH K

Asst. Prof.

Dept. of Civil Enginnering

Dept. of Civil Engineering

TOCE, BANGALORE

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Dr. V PRAVEEN GOWDA

TOCE, BANGALORE Dr. RV Praveena Gowda Principal

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

Department of Civil Engineering



CERTIFICATE

Certified that the project work entitled WATER QUANTITY ANALYSIS OF BELLAND LAKE AND DEFLOURIDATION OF WATER USING LOW COST ADSORBEN'

carried out by

DEVIKA R

10X13CV-041

DIVYA NAYAK

1OX13CV 002

GIRISH. M.S

10X13CV 028

BINDIYAHP

10X13CV 011

a confide students of THE OXFORD COLLEGE OF

NGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the cademic year 2016-17. It is certified that all the corrections/suggestions indicated for iternal Assessment have been incorporated in the report deposited in the Department library. he Project report has been approved as it satisfies the academic requirements in respect of roject work prescribed for our Degree.

Dr. AMARNATH K Ir. MAHADEV PRASAD N

Asst. Prof.

Dept. of Civil Enginnering

Dept. of Civil Engineering

TOCE, BANGALORE

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Dr.K V PRAVEEN GOWDA

TOCE, BANGALORE Dr. RV Praveena Gowda Principal

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

Department of Civil Engineering



CERTIFICATE

Certified that the project work entitled STABILIZATION OF BLACK COTTON SOIL USING FLY ASH

carried out by HEIKRUJAM ROSHAN SINGH 10X13CV012

JITENDRA 10X13CV030

KUMAR VISHALGAMA 10X13CV047

MANISH KUMAR SAH 10X13CV022

a confide students of THE OXFORD COLLEGE OF

NGINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the lademic year 2016-17. It is certified that all the corrections/suggestions indicated for ternal 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 roject work prescribed for our Degree.

GUIDE

HOD

Ir. MAHADEV PRASAD N Dr. AMARNATH K

Asst. Prof,

Dept. of Civil Enginnering TOCE, BANGALORE

Dept. of Civil Engineering

TOCE, BANGALORE

Dr.K V PRAVEEN GOWDA

TOCE, BANGALORE Dr. RV Praveena Gowda Principal

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

Department of Civil Engineering



CERTIFICATE

ertified that the project work entitled LAYOUT OF AIRPORT AND DESIGN OF RUNWAY

carried out by

MOHAMED FARAAZ

10X13CV014

MOHAN. R

10X13CVC29

MOHSEEN KHAN

10X13CV034

MOUNIKA K.R.

10X13CVC44

a confide students of THE OXFORD COLLEGE OF

GINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the idemic year 2016-17. It is certified that all the corrections/suggestions indicated for ernal Assessment have been incorporated in the report deposited in the Department library. e Project report has been approved as it satisfies the academic requirements in respect of oject work prescribed for our Degree.

r. MAHADEV PRASAD N Dr. AMARNATH K

Asst. Prof.

Dept. of Civil Enginnering

ept. of Civil Engineering

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

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Dr.K V PRAVEEN GOWDA

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

Department of Civil Engineering



CERTIFICATE

ertified that the project work entitled BEHAVIOUR OF CONCRETE BY PARTIAL REPLACEMENT OF COARSE AGGREGATES WITH RECYCLED PLAST.

GRANUELS carried out by

NAGENDRAK

10X13CV039

NIKHIL G N

10X13CVC 41

OLEM JAMIR

1OX13CVC 58

PANKAJ JOSHI

10X13CV040

a confide students of THE OXFORD COLLEGE OF

the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the addemic year 2016-17. It is certified that all the corrections/suggestions indicated for ernal 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 the piect work prescribed for our Degree.

GUIDE

HOD

r. MAHADEV PRASAD N Dr. AMARNATH K

Asst. Prof,

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TOCE, BANGALORE

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Dr. V PROVEEN GOWDA

TOCE, BANGALORE Dr. RV Praveena Gowda Principal

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

Department of Civil Engineering



CERTIFICATE

ertified that the project work entitled PARTIAL REPLACEMENT OF COARSE AGGREGATES WITH COCUNUT SHELLS

PRABUDDHA KUMAR YADAV 10X13CV014 carried out by

PRAMODH, R

10X13CV 052

PR ANJYOTI DAS

10X13CV018

PREMY ANG FO

10X13CV039

a confide students of THE OXFORD COLLEGE OF

GINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the ademic year 2016-17. It is certified that all the corrections/suggestions indicated for ernal Assessment have been incorporated in the report deposited in the Department library. e Project report has been approved as it satisfies the academic requirements in respect of oject work prescribed for our Degree.

r. MAHADEV PRASAD N Dr. AMARNATH K

Asst. Prof.

Dept. of Civil Enginnering TOCE, BANGALORE

ept. of Civil Engineering

TOCE, BANGALORE

TOCE, BANGALORE Dr. RV Praveena Gowda

Dr.K V PRAVEEN GOWDA

Principal

The Oxford College of Engineerin Bommanahalli, Hosur Road

Bengaluru-560 068

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

Department of Civil Engineering



CERTIFICATE

ertified that the project work entitled BEHAVIOUR OF CONCRETE BY PARTIAL REPLACEMENT FOR COARSE AGGREGATES WITH SEA SHELLS AND CEMENT BY FLYAS

carried out by RANJAN KUMAR MADHESIYA 10X13CV026

RAVI KUMAR R

1OX13CV052

REJU J PHILIP

10X13CV055

SACHIN V AIR AGE

10X13CV047

a confide students of THE OXFORD COLLEGE OF

GINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the idemic year 2016-17. It is certified that all the corrections/suggestions indicated for ernal Assessment have been incorporated in the report deposited in the Department library. e Project report has been approved as it satisfies the academic requirements in respect of oject work prescribed for our Degree.

r. MAHADEV PRASAD N Dr. AMARNATH K

Asst. Prof.

Dept. of Civil Enginnering

ept. of Civil Engineering

TOCE, BANGALORE

TOCE, BANGALORE

TOCE, BANGALORE

Dr. RV Praveena Gowda Principal

V PRAVEEN GOWDA

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

Name of the Examiners

Examiner 1.

Examiner 2

Signature with Date

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

Department of Civil Engineering



CERTIFICATE

ertified that the project work entitled EXPERIMENTAL STUDY ON CELLULAR LIGHT WEIGHT CONCRETE USING FOAMING AGENT

arried out by

SAMUEL CHINGIAKMUAN

10X13CV007

SAYUJNAIR

10X13CV056

SHARATH B K

10X13CV011

SHIVAKUMAR. T.P

10X13CV010

a confide students of THE OXFORD COLLEGE OF

GINEERING in partial fulfilment for the award of BACHELOR OF ENGINEERING the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the demic year 2016-17. It is certified that all the corrections/suggestions indicated for ernal Assessment have been incorporated in the report deposited in the Department library. e Project report has been approved as it satisfies the academic requirements in respect of ject work prescribed for our Degree.

r. MAHADEV PRASAD N Dr. AMARNATH K

Asst. Prof.

Dept. of Civil Enginnering

ept. of Civil Engineering

TOCE, BANGALORE

OCE, BANGALORE

TOCE, BANGALORE

Dr. RV Praveena Gowda Principal

Dr.K V PRAVEEN GOWDA

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

Name of the Examiners

Examiner 1.

Examiner 2

Signature with Date

The Oxford College of Engineering

(Affiliated to VTU, Belagavi) Bommanahalli, Bangalore - 560 068 Department of Automobile Engineering



Certificate

Certified that the project work entitled, "Design and Fabrication of motorized centre stand" carried out by Mr. MAHESH .T. N (10X13AU010), Mr. NAVEEN. N (10X13AU017) ,Mr. RANGANATH .B (10X14AU409), and Mr.VIKAS.H (10X14AU411) bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering / Bachelor of Technology in Automobile Engineering of the Visveswaraiah Technological University, Belgaum during the year 2016- 2017. 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. Sandeep K Chavan Dr-Rajy B R Head

Dr Praveena Gowda

Department of Automobile Engineering

The Oxford College Oxford College Oxford College Oxford College Oxford College Oxford College Oxford Oxford College Oxford Ox

The Oxford College of Engineering

Bommanahalli, Hosur Road Permanahalli, Hosur Road

Bommanahalli, Hosur Road

Name and Signature of Examiners: Bengalury 560 068

[Internal Examiner]

Dr. Rojn. B. R Rattiber 27/6/17

[External Examiner]

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

Department of Automobile Engineering



CERTIFICATE

Certified that the project work entitled "Performance and optimization of a multipurpose forklift vehicle" carried out by Abhijit Babu Reddy (10X13AU001), Neelesh Kumar (10X13AU018), Shivendra Pratap Singh (10X13AU031), Shubham Kumar (10X13AU032) bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfillment for the award of the Degree of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. 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. Deepak U S

Project Guide

Head of the Department

Dr. R.V Praveena Gowda Principal, TOCE

External Viva

Name of the Examiners

r, Rafubr XHNJunge

Signature with Date

Hosur Road, Bommanhalli, Bengaluru – 560068 (Affiliated to Visvesvaraya Technological University, Belagavi)

DEPARTMENT OF AUTOMOBILE ENGINEERING



CERTIFICATE

Certified that the project work entitled "REPATABILITY AND REPRODUCIBILTY

IN EMI CALIBRATION BENCH" carried out by Mr. BHUVAN KUMAR SHETTY (10X13AU006), Mr. SANJAY BASAVARAJ JALANNAVAR (10X13AU028), Mr. JEEVANKUMAR B MOODI (10X14AU403) and Mr. KEERTHAN V (10X14AU404), 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 2016–2017. 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.Maruthi S.B

Signature of HOD

Dr. Raju B.R

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

Bangalore-560 068.

Name of Examiners:

1. Dr. Rajn.B.R

2. Red. Bralath .A

Signature of Principal
Dr. R V Prayena Gouda

Dr. RV Praveena Gowda Principal

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

Signature with Date:

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

Department of Automobile Engineering



CERTIFICATE

This is to certify that the Project work entitled "FABRICATION OF EXHAUST HEAT RECOVERY USING THERMO ELECTRIC GENERATOR" is an authentic record of the project work carried out by the students CLINCE P J (10X12AU016), PRATHAP K (10X13AU021), RAGHUNATH A NAIK (IOXI3AU024), DINESHA II S (IOXI4AU402) in partial fulfillment for the award of degree of Bachelor of Engineering in Automobile Engineering from Visvesvaraya Technological University, Belagavi during the year 2016-17. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it is satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

Mr.RAVITEJA R N Guide, Asst. Professor TOCE

PHofBasor BaRHead Department of Albertalite Engineering The Oxford College of Engineering

Bomman ghallir HaduMivad Bangalore - 560 068.

Dr. R.V PRAVEHNA GOWDA Dr. RevikcipaleroceSowda

Principal The Oxford College of Engineering Bommanahalli, Hosur Road Bengalurigosouth date

Name of the Examiners

1. Dr. Rajn.B.R 2. Prof. Rhalate. A

Scanned with CamScanner

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

Automobile Engineering



CERTIFICATE

This is to Certify that the project work entitled "REGENERATIVE SHOCK ABSORBERS FOR GENERATING ELECTRICAL ENERGY AND

COMPRESSED AIR" is a bonafide work carried out by MOHAMMED IDRIS AJAZ (10X12AU031), PRUTHVI RAJE GOWDA KS (10X13AU022), NITHIN BHARATH (10X12AU032), NAMITH P (10X13AU405) in partial fulfillment for the award of BACHELOR OF ENGINEERING in AUTOMOBILE ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the year FEB -MAY 2017. It is certified that all corrections suggestions indicated for internal assessment have been incorporated in the dissertation accordingly. The Project report has been approved as it satisfies the academic requirements required for the B.E degree.

Asst. Professor. Dept. of AUE, TOCE

The distance Control of the Diseasing Dr. R

Deptimerabili, How Broad Bangalore-560 068.

Principal

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

EXTERNAL VIVA

NAME OF THE EXAMINERS

EXAMINER 1: Dr. Ragu. B. R EXAMINER 2: Peopl. Bhalath. A

SIGNATURE WITH DATE

27/6/17

The Oxford College of Engineering

(Affiliated to VTU, Belgaum) Bommanahalli, Bangalore - 560 068 Department of Automobile Engineering



Certificate

Certified that the project work entitled "Development of a Camless Valvetrain Using Electromagnetic Actuation and Variable Valve Timing" carried out by Mr. M NIKHIL (10X13AU009), Mr. MANOHAR R (10X13AU011), Mr. SAMRAT KOTRESH (10X13AU027), bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering / Bachelor of Technology in Automobile Engineering of the Visveswaraiah Technological University, Belgaum during the year 2016- 2017. 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. Professor & Head

> The Oxford College of Engineering Bommanahalli, Hosur Road Banga gre - Fê

Signature of Guide Mr. Sandeep K Chavan Signature of HOD Dr. Raju B R

Department of Automobile Engineering

Signature of Principal Dr. Praveena Gowda

Dr. R V Praveena Gowda

Principal

The Oxford College of Engineering Remmanahalli, Hosur Road 28 Bengaluru-560 068

Name and Signature of Examiners:

1. Dr. Rajn. B. R 2. Dr HN Swrse

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

Department of Automobile Engineering



CERTIFICATE

Certified that the project work entitled "INVESTIGATION ON LOW IMPACT RESISTANCE OF GLASS LAMINATE ALUMINIUM REINFORCED EPOXY COMPOSITE (GLARE)"carried out by NIKHIL P DAVIS (10X13AU019), PRASANNA (10X13AU020), SYED NIZAMUDDIN (10X13AU036) and MEGHANA M (10X14AU406), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological University, Belgaum during the year 2016-2017. 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 Dhole DepSignatureA9 The Oron Rania Rof Engineering Bommanahalli, Hosur Road Dr. RV Bangalore - 560 068.

oile Engineering Dr. Praveena Gowda

EXTERNAL VIVA

The Oxford College of Engineer Bommanahalli, Hosur

Name of the Examiners

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



CERTIFICATE

Certified that the project work entitled FABRICATION OF HYBRID BIKE carried out by Mr. MOHAMMED NAVAS P (10X13AU012), Mr. MURALI K R (10X13AU015), and Mr. AJAY REDDY R (10X14AU400) 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 2016 - 2017. 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. HEMANTHA C

Assistant Professor

Dept. of Automobile Engg

Department of Automobile Engineering The Oxford College of Engineering Bommanahalli, Hosur Road Dept Bangahli o Boby & Engg.

Principal

Dr. Praveena Gowda

Dr. The Oxford College of da

Principal The Oxford Digincernig Engineering Bommanahalli, Hosur Road

Bengaluru-560 068

Name of Examiners:

1. Dr. Royu.B.R 2. Peol. Bhalate A

Signature with Date:

Hosur Road, Bommanahalli, Bangalore-560068 (Affiliated to VTU, Belagavi and approved by AICTE) Department of Automobile Engineering



CERTIFICATE

This is to certify that the seminar work entitled "EXPERIMENTAL INVESTIGATION OF LOW VELOCITY IMPACT ON A GLASS LIMAINATE ALUMINIUM REINFORCED EPOXY MATERIAL FOR AUTOMOBILE" is an authentic record of the project work carried out by the students OBULI KARTHIKEYAN S(10X11AU006), KARTHIK HIREMATH (10X13AU007), SRIKANT G(10X13AU034), TARUN KUMAR H(10X13AU037), in partial fulfillment for award of Bachelor of Engineering in Automobile Engineering from VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the year 2016-2017. It is certified that all corrections and 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 requirement in respect of project work prescribed for the said degree.

Mr. HARISH KUMAR M Depart Prot RAJ

Project Guide

R Engineering

The Oxford College of Engineering incipal, TOCE
Bomman Deli, Hosur Road Distriction of Colored Bangalore-560 068 External Viva

The Oxford College of Engineering Bommanahaili, [4994] Road

Signature with Dates of

Name of Examiners

1. Dr. Rojn.BR 2. Artin Suran

Ratt BR 28/6/17

Hosur Road, Bommanhalli, Bengaluru – 560068 (Affiliated to Visvesvaraya Technological University, Belagavi)

DEPARTMENT OF AUTOMOBILE ENGINEERING



CERTIFICATE

Certified that the project work entitled INVESTIGASTION ON THE INFLUENCE OF NANO FILLERS ON TRIBOLOGICAL BEHAVIOUR OF FIBER REINFORCED HYBRID COMPOSITES FOR AGRICULTURE APPLICATIONS carried out by Mr. ARJUN MUNIRATHINAM (10X13AU005), Mr. PURUSHOTHAM R (10X13AU023), Mr. SATYANARAYANA MOHANTY G (10X13AU030) and Mr. SULAIMAN. E (1OX13AU035), 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 2016-2017. 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.

Professor & H Department of Automobile Engineering The Oxford College of Engineering Bommanahalli, Hosur Road Projech Guide and HOD

Dr. RAJU B R

Professor and HOD Dept. of Automobile Engineering Dr. Bry Reaver NA GOVOBA Principal

The Oxford College of Engineering Eldin Oxford: College of Roadneering Bengaiung-560-068

Signature with Date 1. Dy. Rayn. BR - RATTBR 28/6/17
2. Do HN Svos D 28/6/10

Hosur Road, Bommanhalli, Bengaluru – 560068 (Affiliated to Visvesvaraya Technological University, Belagavi) Department of Mechatronics Engineering



CERTIFICATE

Certified that the project work entitled AUTOMATIC GATE BASED ON ELECTOSTATIC DISCHARGE CONTROL carried out by Ms. INDUMATHI M (10X13MT019) Mr. J C DHANUSH (10X13MT020), Mr. LOCHAN T U (10X13MT022) and Ms. PALIKA K (10X13MT030) bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visveswaraiah Technological University, Belagavi during the year 2016 – 2017. 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. Rajesh B
Assistant Professor,
Dept. of Mechatronics Engg.

HOD Dr. Narayana B Doddapattar

Profe Rook Beat OD

Dr. Praveena Gowda The Oxford College

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The Oxford College of Engineering Principal

Bommunuhatti, Baryalore 56% இ68 ford College of Engineering Bommanahalii, Hosur Road Signature இரு நக்கு: 560 068

Name of Examiners:

1. Dr. Alle Swany 2. Dr NB Dockett

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Hosur Road, Bommanahalli, Bengaluru-560068, Karnataka

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

"ESTABLISHMENT entitled the project CIRCULATION FACILITY FOR AN ISOLATION VALVE" carried out by Mr. ADITHYA K SHETTY(10X13MT004), Mr. DHANUSH S(10X13MT015), **SYED** Mr. UPPOOR(10X13MT040), **SHRINIDHI** S Mr. (1OX13MT044), 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 2016-2017.

Signature of Guide Mr. ASHOKA T K Signature of HOD

Dr. NARAYANA B

re of Pfincipal Dr. R'V PRAMEENA

GOWDA

DOMONA PANTOAR Department of Wechatronins RV Praveena Gowda

The Oxford College of Engineering

Principal

Bong Tanaballi Ber Alora 550e068 ord College of Engineering Bommanahalli, Hosur Road

Bengaluru-560 058 Signature with date

Name of the examiners

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, HOSUR ROAD, BENGALURU-68

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

Certified that the project entitled "M.A.R.S. (MAPPING ALL TERRAIN ROBOT SURVEILLANCE)" carried out by MOHAN KUMAR B [10X13MT010], MOHIDDIN PICHAI LABBAI [10X13MT026], PRASHANTH SHEMBI [10X13MT031], SANJAY B.C [10X13MT036] 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 2016-2017.

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

Signature of HODD

Signature of Principal

Mrs.BHAVYA M R Asst. Professor Debarting SANAChatronies RV PRAVEENA
The Oxford SANE TAR Engineering GOWDA

Dept, of MTE, T.O.C.EBommuna Milly Bert Lalore 560 068 T.O.C.E.

Dr. RV Praveena Gowda Principal

The Oxford College of Engineering

EXTERNAL VIVA-VOCE Bommanahalli, Hosur Road Bengaluru-560 068

Name of the examiners

Signature with date

1. Dr.ARK SMAMY

Alleef 20/1/17

2. Do N B Dollath

Hosur Road, Bommanahalli, Bengaluru-560068, Karnataka

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

Certified that the project entitled "DESIGN AND DEVELOPMENT AUTOMATION DIP PAINTING SYSTEM OF WOODEN PALLETS" carried out by Mr. RAJU E with USN 10X13MT034, Ms. AMRUTHA M with USN 10X14MT400, Mr. KARTHIK RAJ B G with USN 10X14MT403, Mr. KIRAN KUMAR A L with USN 10X14MT405, 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 2016-2017.

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. RAVI S JADHAV Signature of HOD

Dr. NARAYANDB

rature of Principal Dr. R V PRAVEENA

Department of Genetronics The Oxford College of Engineering Principal
BonnorDanal Way And College of Engineering Oxford College of Engineering Principal Hospital College of Engineering Principal College of Engineering Princi

DOWD Praveena Gowda Principal

Bommanahalli, Hosur Road Bengaluru-560 068 Signature with date

Name of the examiners

1. Dr. ARKSWAM 2. Or NB Dodget

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DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

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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.

21/06/17 Signature of Guide Mr. RAVI S JADHAV

Signature of HOD Dr. NARA VANDO

Signature of Principal Dr. R V PRXVEENA

Department PATITed atronics

ĞOWDA

The Oxford College of Engineering Dr. RV Praveena Gowda BOHNTERNAL VIVALVOCEO 068

Principal

The Oxford College of Engineering Signature with date 0 068

Name of the examiners

1. Dr. Alk Swamy 2. Box BDalpth

Hosur Road, Bommanahalli, Bengaluru-560068, Karnataka

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

Certified that the project entitled "DESIGN AND DEVELOPMENT AUTOMATION DIP PAINTING SYSTEM OF WOODEN PALLETS" carried out by Mr. RAJU E with USN 10X13MT034, Ms. AMRUTHA M with USN 10X14MT400, Mr. KARTHIK RAJ B G with USN 10X14MT403, Mr. KIRAN KUMAR A L with USN 10X14MT405, 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 2016-2017.

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.

21/06/17

Signature of Guide Mr. RAVI S JADHAV Signature of HOD

Dr. NABA YANAB

ignature of Principal Dr. R V PRAVEENA

Department of Wet Ratronics The Oxford College of Engineering

Gilder

Praveena Gowda Principal

Bonnanahalli, Hosur Road

Signaturenwith date 0 068

Name of the examiners

1. Dr. Alk Swany 2. Do x1.8. Do Slepth

Hosur Road, Bommanahalli, Bengaluru-560068, Karnataka

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

that the project entitled "DESIGN AND DEVELOPMENT PNEUMATIC SYSTEM FOR INDUSTRIAL AUTOMATION" carried out by Mr. KIRAN KATIGENNAVAR with USN 10X14MT404, Mr. NAVGEKAR SUDHIR KRISHNA with USN 10X14MT408, Mr. PRAKASH M PATIL with USN 10X14MT410, 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 2016-2017.

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

Dr. NARAYANA B **DODDAPATTAR**

Signiture of HOD

Departhand And Batronics Dr. RV PRAVEENA The OxfORDAPATTARgineering r. R. COWDAena Gowda

Bommunahalli, Beigalore 560 068 Principal

Bommunahalli, Beigalore 560 068 Oxford College of Engineering

EXTERNAL VIVA-VOCE

Signature of Principal

Bommanahalli, Hosur Road

Bengaluru-560 068 Signature with date

Name of the examiners

1. Dr. ARKSWAMY 2. Do al Bradipa

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

Department of Mechatronics Engineering



CERTIFICATE

Certified that the Project work entitled "LINEAR ACTUATING GRIPPER IN SEMI AUTOMATED INDUSTRIAL ROBOT (LAGSAIR) " carried out by RANJITH KUMAR.J, [10X12MT415], CHUBIKCHAN.B, [10X13MT402], JANARDHAN.L, [10X13MT404], PAVAN VARADA, [10X13MT408], 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 of 2016 - 2017. It is certified that all the 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 Seminar work prescribed for my Degree.

Guide

Department po bechaironics Mr.Raghavendra K MTheDxNara Colle Be Doddapattaroe

Assistant Professor

Dept. of MTE, TOCE

Bommunaha Debt be MATE

TOCE

Dr. RV Praveena Gowua Principal

The Oxford College of Engineering Bommanahalli, Hosur Road

Bengaluru-560 068

Name of the Examiners

Examiner 1: DY. ALK SWOMY

Examiner 2: Por N B Dodley Star

Hosur Road, Bommanhalli, Bengaluru – 560068 (Affiliated to Visvesvaraya Technological University, Belagavi) Department of Mechatronics Engineering



CERTIFICATE

Certified that the project work entitled AUTOMATED METRO TRAIN carried out by MR. SUBHAM B (10X13MT042) Mr. PRANEET S R (10X13MT020), bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visveswaraiah Technological University, Belagavi during the year 2016 - 2017. 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. Neetha N Assistant Professor,

Dept. of Mechatronics Engg.

Dr. Nara Fini B Doddapattinnics Dr. Praveena Gowda
D Practure W Head Engin Duck The Oxford College
The Oxford College Principal
Bommunahalli, Burra Fine Oxford College
The Oxford College

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

Signature with Date:

Name of Examiners:

1. Dr. All Swang 2. Of al B Doddyll

Hosur Road, Bommanahalli, Bengaluru – 560068 (Affiliated to Visvesvaraya Technological University, Belgaum) Department of Mechatronics Engineering



CERTIFICATE

Certified that the project work entitled "SEQUENCING PNUEMATIC ACTUATOR" carried out by Mr.HARSHAGOUDA PATIL (10X13MT017), Mr.MASTER **PRABHUDEV** S (10X13MT024),Mr.DEEPAK G YALLAPURKAR (10X14MT401), and Mr.SANTOSH RATHOD (10X12MT039), bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visveswaraya Technological University, Belagavi during the year 2016 - 2017. 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.

Project Guide Ms. Neetha N Assistant Professor, Department of MTE

HOD

Dr. Narayana B D

K.Praveena Gowda

The Oxford college of Engineering Department of Mechatronics. RV Pravecna Gowda

The Oxford College of Engineering Principal Bommanahalli, Bargalore 560 068mmanahalli, Hosur Road

Signature With Date:

Name of Examiners:

1. Dr. All SWAMY 2. Pr N B Doddepath

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Hosur Road, Bommanahalli, Bengaluru – 560068 (Affiliated to Visvesvaraya Technological University, Belgaum) Department of Mechatronics Engineering



CERTIFICATE

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Ms. Neetha N Assistant Professor, Department of MTE

Dr. Narayana B D **Head of Department**

Dep physint & MOD

K.Phaveena Gowda

The Oxford college of Engineering Dr. RV Praveena Gowda

Signatureawith 40a teas

Principal

Department of Mechatronics The Oxford College of Engineering ford College of Engineering Bommanahalli, Bergalore 560 068 mmanahalli, Hosur Road

Name of Examiners:

1. Dr. Alk SWAMY 2. Dr N B Doddynth

Hosur Road, Bommanhalli, Bengaluru – 560068 (Affiliated to Visvesvaraya Technological University, Belagavi) Department of Mechatronics Engineering



CERTIFICATE

Certified that the project work entitled AUTOMATED METRO TRAIN carried out by MR. SUBHAM B (10X13MT042) Mr. PRANEET S R (10X13MT020), bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visveswaraiah Technological University, Belagavi during the year 2016 - 2017. 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. Neetha N

Assistant Professor,

Dept. of Mechatronics Engg. Bom

EngineemaR Baryalore 560 068

Dr. Prave na Gowda

The Oxford College

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

Signature with Date:

Name of Examiners:

1. Dr. Allesmany 2. Dr NB Dollgette

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Hosur Road, Bommanhalli, Bengaluru - 560068 (Affiliated to Visvesvaraya Technological University, Belagavi) Department of Mechatronics Engineering



CERTIFICATE

Certified that the project work entitled AUTOMATIC GATE BASED ON ELECTOSTATIC DISCHARGE CONTROL carried out by Ms. INDUMATHI M (10X13MT019) Mr. J C DHANUSH (10X13MT020), Mr. LOCHAN T U (10X13MT022) and Ms. PALIKA K (10X13MT030) bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visveswaraiah Technological University, Belagavi during the year 2016 - 2017. 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. Rajesh B Assistant Professor, Dept. of Mechatronics Engg.

HOD Dr. Narayana B Doddapattar

The Oxford College of Engineering

rincipal Dr. Praveena Gowda

Dept of Mecharonics Dr. R V Preventa Gowua

Dxford College of Engineering Oxford College of Engineering ্নুnahalli, Baন্বুৰালে মুট্টা টিটি Bommanahalli, Hosur Road Bengaluru-560 068

Signature with Date:

Name of Examiners:

1. Do ARIESWAMY 2. Do NB Dollgoth

Hosur Road, Bommanhalli, Bengaluru - 560068 (Affiliated to Visvesvaraya Technological University, Belagavi) **Department of Mechatronics Engineering**



CERTIFICATE

Certified that the project work entitled SOLVING INDUSTRIAL ISSUE IN POWER STEERING MOTOR USING 8D METHODOLOGY carried out by Mr. AKSHAY C (10X13MT005), Mr. D PAVAN KUMAR (10X13MT013), Mr. DENVER AKSHAY L (10X13MT014) and Mr. MANOJ EMMANUEL R (10X13MT023), 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, Belagavi during the year 2016 - 2017. 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. Rajeshwari D

Assistant Professor

Dept. of Mechatronics Engg

Dr. Department Dodapattationics

The Oxford College of Engineering

Dept. of Mechatronics Engg.

Engineering
The Oxford College of Engineering
Bommanahaili, Hosur Road

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1. Dr. Allswamy 2. Br. xo.B. Dollapelle

Hosur Road, Bommanahalli, Bengaluru-560068, Karnataka

DEPARTMENT OF MECHATRONICS ENGINEERING



CERTIFICATE

Certified that the project entitled "WIRELESS ANNUNCIATOR IN INDUSTRIES" carried out by Mr. CHETAN R USN 10X13MT012, Mr. R SHASHI KUMAR USN 10X13MT032, Mr. ROHAN N USN 10X13MT035, Mr. KARTHIK M USN 10X14MT402, 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 2016-2017.

Signature of Guide

Dr. NARAYANA B

DODDAPATTAR

Signature of HOD

Dr. NARAYANA B

DODDAPATTAR

Signature of Principal Dr. R V PRAVEENA

GOWDA

us to seelloo protxO euthe Oxford College of Engine

Department of Mechatronice.

Prof. & HOD

6 099 elopating 'llangurumos Dr. RV Praveena Go

Bommanahaili, Hosur

Bengaluru - 560 068

EXTERNAL VIVA-VOCE

Name of the examiners

Signature with date

1. Dr. Allsmany 2. Br. B. B. Boddyste

Hosur Road, Bommanhalli, Bengaluru - 560068 (Affiliated to Visvesvaraya Technological University, Belagavi) Department of Mechatronics Engineering



CERTIFICATE

Certified that the project work entitled AUTOMATIC GATE BASED ON ELECTOSTATIC DISCHARGE CONTROL carried out by Ms. INDUMATHI M (10X13MT019) Mr. J C DHANUSH (10X13MT020), Mr. LOCHAN T U (1OX13MT022) and Ms. PALIKA K (1OX13MT030) bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visveswaraiah Technological University, Belagavi during the year 2016 - 2017. 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.

Project Guide Mr. Rajesh B

Assistant Professor, Dept. of Mechatronics Engg. HOD

Dr. Narayana B Doddapattar

Professor & Head

Dept. of Rechaterfit ODgg.

Department of Mechatronics

The Oxford College of Engineering Sommanahalli, Hosur Road Bommanahalli, Bargaic 366 Bengaluru-560 069

Principal Dr. Praveena Gowda

The Oxford College Dr. RV diniggena Gowda **Principal**

Signature with Date:

Name of Examiners:

1. Dr. Alle swamp. 2. 30 NB Dodlopette

Deluty 6/17



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Website: www.theoxford.edu Email: engprincipal@theoxford.edu

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

CERTIFICATE

This is to certify that ABHIJIT KARMAKAR bearing(USN-10X15MBA02) is a bonafide student of master of business administration course of the institute 2015–2017, affiliated to vishveshvarayya technological university, Belgaum. Internship report on "A STUDY ON MARKETING MIX ELEMENT OF REJUVENATE TECHNOLOGIES." is prepared by him under the guidance of Mr. GOKUL. G. Asst. professor MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Vishveshvarayya Technological University, Belgaum, and Karmataka.

Signature of internal guide

Signature of HOD

HOD, Deptt. of Business Administration D The Oxford College of Engineering

Bommanahalli, Hosur Road Banyalore 560 068 Signature of principal

r. R VPro ena Cowda

Principal
The Oxford College of Engineering
Bommanahalii, Hosur Road
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CERTIFICATE

This is to certify that ABHILASHA G C bearing (USN 10X15MBA03) is a bonafide student of master of business administration course of the institute 2015–2017, affiliated to vishveshvarayya technological university, Belgaum. Internship report on "A STUDY ON RATIO ANALYSIS IN AN ORGANISATION AT BIOCON PROVATE Ltd" is prepared by her under the guidance of Ms. CHANDRIKA REDDY P, Asst. professor MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Vishveshvarayya Technological University, Belgaum, and Karnataka.

Signature of internal guide

Signature of HOD

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Signature of principal

Dr. RV Praveena Gowda

Principal

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Website: www.theoxford.edu Email: engprincipal@theoxford.edu

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

CERTIFICATE

This is to certify that ADARSH P S bearing (USN 10X15MBA05) is a bonafide student of Master of Business Administration course of the institute 2015–2017, affiliated to Visvesvaraya Technological University, Belagavi. Internship report on "A STUDY ON CUSTOMER SATISFACTION OF SOBHA INTERIOR DIVISION LTD" is prepared by him under the guidance of MR. CHIKKE GOWDA KG, 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, and Karnataka.

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Principal

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CERTIFICATE

This is to certify that AJAY K bearing (USN 10X15MBA08) is a bonafide student of master of business administration course of the institute 2015-2017, affiliated to vishveshvarayya technological university, Belgaum. Internship report on "FINANCIAL HEALTH STARTUPS OF V J INDUSTRIES PVT. LTD" is prepared by him under the guidance of Mr. GOKUL.G, Asst. professor MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Vishveshvarayya Technological University, Belgaum, and Karnataka.

Signature of internal guide

Signature of HOD

HOD, Deptt. of Business Administration Dr. R V Praveena Gowda The Oxford College of Engineering

Bommanahalli, Hosur Road Banyalore 560 068

Signature of principal

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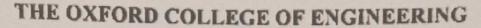
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This is to certify that SAVITA SHARMA bearing USN 10Y15MBA32 is a bonafide student of Master of Business Administration course of the Institute 2015-2017, affiliated to Visvesvaraya Technological University, Belagavi. Her internship report on "A STUDY ON STANDARDIZATION OF HIRING SYSTEM OF TOYOTA INDUSTRIES ENGINE INDIA PRIVATE LIMITED" at TIEI, Jigani is prepared by her under the guidance of Mrs A. SAHANA, in partial fulfilment of the requirements 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 SHRUTHI K bearing USN 10Y15MBA40 is a bonafide student of Master of Business Administration course of the Institute 2015-2017, affiliated to Visveswaraya Technological University, Belgaum. Her internship report on "A STUDY ON REVERSE MORTGAGE WITH REFERENCE TO THE SYSTEM DOMANIN Pvt BANGALORE" is prepared by her under the guidance of Ms. Richa Tiwari in partial fulfillment of the requirements for the award of the degree of Master of Business Administration of Visveswaraya Technological University, Belagavi, Karnataka.

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This is to certify that SOUMYA. K bearing USN 10Y15MBA45 is a bonafide student of Master of Business Administration course of the institute 2015-2017, affiliated to Visvesvaraya Technological University, Belagavi. Her internship report on "A STUDY ON LABOUR WELFARE MEASURES AT SRIVEN ESTATES" is prepared by her under the guidance of Mrs A. SAHANA, in partial fulfilment of the requirements for the award of the degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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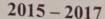
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Novel cryptographic solution using cloud computing

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> ANUSHA T 10X14MCA02

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CUSTOMER MANAGEMENT SYSTEM INTEGRATION WITH SUITECRM FOR TRACKING SYSTEM

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

ARSHIYA SULTANA 10X14MCA05

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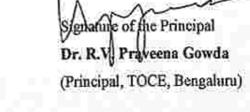
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*Implement Concepation Framework of an RFID of Patient Tracking & Mobile Alert System"

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From Virueswarsyn Technological University, Belajawi

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SECURE INFERRING NETWORK TOPOLOGY BY PROBS INCLUSION

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KATHIRIYA SOHIL MANSUKHBHAI IOX14MCA25

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Cross Platform Identification of Identical Users in Multiple Social Media Networks

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WEB APPLICATION FOR E-SCHOOL MANAGEMENT SYSTEM

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

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"WEB BASED APPLICATION FOR COGNITIVE BEHAVIORAL SYSTEM"

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

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

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This is to certify that the project work entitled

"CONTENT MANAGEMENT SYSTEM IMPLEMENTS DIRECTORY LISTING"

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

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> MUHAMMAD T A 10X14MCA36

During the academic year 2017-2018

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Frayeena Gowda

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This is to certify that the project work entitled

CENTRALIZED DESKTOP TOOL FOR EVENT RAISING SUPPORTING

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

> NISCHAL K R 10X14MCA38

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ENCRYPTED KEYWORDS SEARCH PROTECTION USING CLOUD COMPUTING

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> PAVAN A IOX14MCA40

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MULTI-STAGE CONCEPTUALIZATION TOOL COMPONENT BASED TRANSITIONS

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Dr. RV Praveena Gowda Principal

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DEVELOPMENT OF MOBILE APPLICATION FOR SKILLS ENHANCEMENT

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"CONTROL CLOUD DATA ACCESS PRIVILEGE AND ANONYMITY WITH FULLY ANONYMOUS ATTRIBUTE-BASED ENCRYPTION"

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(Principal, TOCE, Bengaluru) Dr. RV Praveena Gowda

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CLOUD DATA STORAGE AND BACKUP USING REMOTE SERVERS

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Server Side Deduplication for Encrypted Data

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TWO FACTOR DATA SECURITY PROTECTION MECHANISM FOR CLOUD

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"DIGITILIZED AND DISTINCTIVE INDUSTRIAL PROCESS CUSTOMIZER"

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

Master of Computer Applications

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

ALI ULLA 10X15MCA72

During the academic year 2016-2017

Signature of the Guide

Prof. Mridula Shukla.

(Dept. of MCA, TOCE)

External Viva

Name of Examiners

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Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)



Signature of the Principal

Dr. R.V. Fravlena Gowda

(Principal, TOCE, Bengaluru) Dr. R. V. Princenta, Gowaa.

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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

SNAPPY STAGE IDENTIFICATION OF UNKNOWN IDENTICAL OPERATORS IN COPIOUS SOCIAL MEDIA NETWORKS

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

AMBIKA

10X15MCA73

During the academic year 2016-2017

Dr. M.S. Shashidhara

(Dept.)

Prof. Mridula Shukla.

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Name of Examiners

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Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengalaru) Dr. RV Pravegna Gowda

The Oxford College of Engineering Bommanahalli, Hosur Road

Bangellitting (1418) date

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"BUSINESS INTELLIGENCE SOLUTION PROVIDER WITH VISUAL ANALYTICS"

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

AMBIKA M P 10X15MCA74

during the academic year 2016-2017.

Signature of the Guide

Prof. Mridula Shukla

(Asst. Prof, Dept. of MCA)

Signature of the HOD

Dr. M.S. Shashidhara

(HOD, Dept. of MCA)

Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengaluru)

Dr. R V Praveena Gowda Principul

The Oxford College of Engineering

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External Viva

Name of the Examiners

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



This is to certify that the project work is entitled

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

MASTER OF COMPUTER APPLICATIONS

from Visvesvaraya Technological University Belgaum, is a result of bonafied work carried out by

> ARPITHA B 10X15MCA75

during the academic year 2016-17

Under the guidance of

Signature of Guide

Dr.M.S.Shanhidhara

Signature of the

Prof. Mridula Shukla

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The Head Department of MCA The Oxford College of Engineering Gour Road, BANGALORS - 66

Name of the Examiner

Principal Tre Oxford College of Engineering Sommanahalli, Hosul Rosd Signature with Dades

Dr.R.V.Prayeena Gowda Dr. RV Pravesna Gowda

of the Principal

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

TRIPLICATE POTENT PROOF OF ARCADE FOR MUE

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

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During the academic year 2016-2017

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Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengaluru)

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External Viva

Name of Examiners

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"GUI AUTOMATION OF ACCOUNT LOCKOUT MANAGEMENT AND MONITORING"

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

Master of Computer Applications

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

BAJIRAO S KHARAT 1OX15MCA78

During the academic year 2016-2017

Signature of the Guide

Prof. Mridula Shukla

(Dept. of MCA, TOCE)

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Name of Examiners

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Signaturext

Dr. M.S. Shashidhara

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Dr.R.V.Prgveena Gowda

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The Oxford Cyliep Wil-Engineering Bommanahalli, Hosur Road Bengaluru-560 068

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Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"MSUC: mHealth Security Monitoring System

Using Cloud Computing "

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

> BHAVYA R 10X15MCA79

During the academic year 2016-2017

Signature of the Guide

Prof. Punya.V

(Dept. of MCA, TOCE)

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Name of Examiners

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Signature of the HOD

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(Dept STACE TOCE)

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(Principal, TOCE, Bengahiru) Dr. RV Praveena Gowda Principal

Bonguluru - 550 088

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



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This is to certify that the project work entitled

REPERCUSSION ATTACK ON SURFING HISTORY OF TWITTER USERS

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

BHUVANESHWARI 10X15MCA80

During the academic year 2016-2017

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(Dept. of MCA, TOCE)

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Name of Examiners

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Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)



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(Principal, TOCE, Bengaluru) Dr. RV Praveena Gowda

Principal

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Bommanahalli, Hosur Road, Bengahiri 560.068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

BLITZCARE HMAC

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

Master of Computer Applications

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

BRAHMENDRAPRASAD IOXISMCA81

During the academic year 2016-2017

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(Dept. of MCA, TOCE)

External Viva

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(Dept. of MCA, TOCE)

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The Oxford College of Engineering Bommanahalli, Hosur Road

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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

Sequential Expression Summarizer Tool with Cloud Integration

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

> CHAITHRA N 1OX15MCA82

During the academic year 2016-2017.

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(Dept. of MCA, TOCE)

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Dr. M.S. Shashidhara

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Dr. R.V. Rraveena Gowda

(Principal, TOCE, Bengalum) Praveena Gowaa

The Oxford College of Engineering Bennahalli, Hoser Road

Signature with date

Bommanahalli, Hosur Road, Bengalunt-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

Multidimensional and Intelligence Process Controller with Reports

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

CHANDANA D.G 10X15MCA83

During the academic year 2016-2017

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Prof. Punya V

(Dept. of MCA, TOCE)

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

(Principal, TOCE, Bengaluru)

Dr. RV Praveena Gowda

Principal

The Oxford College of Engineering Bommanahalli, Hosur Road BeSignature With date

Bommanahalli, Hoaur Road, Bengahiru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

Accredited Mass Storage With Evident Features Submitted in partial fulfillinent of the requirement for the award of the degree of

Master of Computer Applications

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

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During the quademic year 2016-2017.

Signment of the Guide Prof. Punya.V

(Dept. of MCA, TOCE)

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Dr. M.S. Shashidhara

(Dopt. of MCA, TOCE)



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Dr. R.V. Prayeana Gowda

(Principal, TOCH, Bengaluru)

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

"POTENTIAL AFFINITY TRANSMISSION PLATFORM WITH MATRIX"

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

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During the ecademic year 2016-2017

Prof. PUNYA V

(Dept. of MCA, TOCE)

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(Dept. of MCA, TOCE)



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Dr.R.V. Praveena Gowda

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Principal

The Oxford College of Engineering Bommanahalil, Hosur Road

Bengaluru 560 068 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

E-CATERING SERVICE AND MANAGEMENT SYSTEM

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

Master of Computer Applications

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

DAMODAR KRISHNA NAIK IOX15MCA86

During the academic year 2016-2017

Signature of the Guide Prof. Punya V.

(Dept. of MCA, TOCE)

External Viva

Name of Examiners

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(Dept. of MCA, TOCE)

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Signature of the Principal

Dr. R.V. Prhyeena Gowda

(Principal, TOCE, Bengaluru) Dr. RV Praveena Gowaa

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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

Hidden asynchronous processor regulated controller with multiple algorithms

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

> R. GAUTAM RAJ 10X15MCA88

During the academic year 2016-2017

Signature of the Guide Prof. Anjana S Murthy (Dept. of MCA, TOCE)

External Viva

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



Signature of the Principal
Dr. R.V. Praveena Gowda
(Principal, TOCE, Bengaluru)
Dr. R.V. Praveena Gowda

The Oxford Company of Engineering Bommananath, Hosyr Road (Signature withodate

Bommanahalti, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

SECURITY DIGITAL ASSETS CONTROLLER AND INTEGRATOR WITH CUSTOM FACTOR

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

> KAILASH S IOXI5MCA89

During the academic year 2016-2017

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Signature of the Guide
Prof. ANJANA S MURTHY
(Dept. of MCA, TOCE)

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



Signature of the Principal Dr. R.V. Praveena Gowda (Principal, TOCE, Bengaluru)

Dr. R.V PERcon to (-00-

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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

"Analytical applied apps based interpretation and development platform"

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

Master of Computer Applications

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

KUSUMA M

TOX15MCA90

During the heademic year 2016-2017

Signature of the Guide

Prof. Anjana S Murthy

(Dept. of MCA, TOCE)

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Name of Examiners

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Dr. M.S. Shashidhara

(Dept. of MGA

Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengaluru) Dr. RV Praveena Gowda Principal

The Oxford College of Engineering Bommarmilling Working College

Rangeluru-560 008

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"CYBER INTIMIDATION REVEALING SYSTEM"

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

MADHU 10X15MCA91

During the academic year 2016-2017

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Prof. Anjana S Murthy

(Dept. of MCA, TOCE)

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MICE TOCE)

Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengaluru)

External Viva

Name of Examiners

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Signature with date

Rommanahalli, Hosar Road, Dengahiru 560 063

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"SROWCASE: AN INTERACTVE PROJECT CATALOGUE MANAGEMENT SYSTEM"

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

Master of Computer Applications From Visveswaraya Technological University, Delgama is a result of the bonafide work carried out by

MIGGIANA G TOXISMCA92

During the academic year 2016/2017

Signature of the Guide Anjann S Murthy (Dept, of MCA, TOCE)

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Dommanahaffi, Llosar Road, Dengaliga-560 063

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"AVIATION MANAGEMENT SYSTEM [AIRCRAFT MODULE]"

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

Master of Computer Applications

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

NAGARJUN V G

IOX15MCA93

During the academic year 2016-2017

Signature of the Guide Prof. Anjana S Murthy (Dept. of MCA, TOCE)

Signature of the HOD Dr. M.S. Shashidhard (Dept. of MCA, TOCE)



(Principal, TOCE, Bengaluru)

Dr. KV Prayeetta Gondal

Principal

Signature of the Principal

Dr. R.V. Praveena Gowda

Principal
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengeluru-580 088
Signature with date

External Viva

Name of Examiners

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Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"UNCERTAINTY ANALYSIS FOR KEYWORD SYSTEM OF WEB EVENT"

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

Master of Computer Applications

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

POOJA CHIDANAND 10X15MCA95

During the academic year 2016-2017

Signature of the Guide

Prof. Anjana S Murthy

(Dept. of MCA, TOCE)

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Name of Examiners

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Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)



Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengaluru) Dr. RV Prospora Gowda

The Oxford Co. 150 or Engineering Bommana halli, Hoour Road

BSignature With date

Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"ADVANCED FIELD SURVEY AND DIGITAL ASSESSMENT"

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

Master of Computer Applications

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

PRAJWAL K 10Y15MCA70

During the academic year 2016-2017

Ma. S. Marthy Signature of the Guide Anjana S Murthy Dept. of MCA, TOCE)

External Viva

Name of Examiners

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



Senature of the Principal
Dr.R.V.Praveeta Gowda
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Bommanaballi, Hosur Road
Bongature with date

Bommanaballi, Hosur Road, Bengaluru-560 063

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

COST EFFECTIVE APPROACH FOR DELAY BOUNDS USING CLOUD COMPUTING

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

Master of Computer Applications

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

> PRASHANTH T G 10Y15MCA71

During the academic year 2016-2017

Signature of the Guide

Asst Prof. Kimmi Kumari

(Dept. Of MCA, TOCE)

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Name of Examiners

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Signature on the HOD

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Dr. R.V.PraveenaGowda

(Principal, TOCE, Bengaluru)

Dr. RV Praveena Gowda

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Demonstratil, Home Powl, Benjalan - 350 068 Department of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

ATRITUALIZATION BANED COMMERCIAL NETWORK SNIFFING BASED ON ESSENTIALS SYNC

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

Master of Computer Applications

From Vinyesvaraya Technological University, Belgaum is a cenall of the boundide work carried out by

PRAVEENA II B

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During the academic year 2016-2017.

Signature of the Guide

Prof. Mrhdula Shukla.

(Asst. Prof. MCA Dept.)

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Name of the Examiners

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Dr.M.S. Shoshidhaya.

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Signature of the Principal

Dr. R.V. Pruveena Gowda.

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The Oxford College of Engineering Bommunahalli, Hasur Road

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Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

ONETAP HEALTH CARE

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

Master of Computer Applications

From Visveswaraya Technological University, Belagavi

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PRITHVIRAJ PATIL.

TOY15MCA73

During the academic year 2016-2017

Signature of the Guide

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(Dept. of MCA, TOCE)

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Name of Examiners

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Dr. M.S. Shashidlana

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Dr. R.V. Prilleenh Gowda

(Principal, TOCE, Hengaluru) Dr. RV Praveona Gowda

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Bommanahalli, Hosur Road, Bengalum-560 068

Department of Master of Computer Applications



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This is to certify that the project work entitled

"CONGRUENT WITH RE CONCEALED ACCOMPLISHMENTOR E-HEALTH MANTLE"

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

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Bommanaballi, Hosur Road, Bengalum 560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"LIVE HAPPY"

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

Master of Computer Applications

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

RAJESH

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During the academic year 2016-2017

Cn=83 12/6/12 Signature of the Guide

Mr. J.C. Achutha

(Dept. of MCA, TOCE)

External Viva

Name of Examiners

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

Signature of the Principal

Dr. R.V. Praveena Gowda

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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

SELF SERVICES FOR BBVA

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

Master of Computer Applications

From Visveswaraya Technological University, Belgaum Is a result of the bonafide work carried out by

RAKESH B M 10Y15MCA76

During the academic year 2016-2017

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

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Name of Examiners

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2.

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



Signature of the Principal Dr. R.Y. Prayeen Gowda : 2:1 (Principal, TOCE, Bengaluru)

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Signature with date

Bommanahalli, Hosur Road, Bengaluru-560 068

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CERTIFICATE

This is to certify that the project work entitled

"Ductile and Fragile Aspect Based Information Areade"

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 bonalide work carried out by

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During the headenic year 2016-2017

Signature of the Guide

Prof.Kimmi Kumari

(Dept. of MCA, TOCE)

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Bommanahalli, Hosm Road, Bengalum-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

"RECORDS ANCESTRY IN MALEVOLENT ATMOSPHERES"

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

Master of Computer Applications

From Visvesvoraya Technological University, Belgaum is a result of the bonafide work corried out by

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During the academic year 2016-2017

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Prof. Kimmi kumari

(Dept. of MCA, TOCE)

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Dr. R.V. Praveena Gowda

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Bommanahalli, Hosur Road, Bengulom 560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

SECURE CORPORATE FUNCTIONAL ORGANIZER WITH ARIS

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

Master of Computer Applications

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

SADIYA KAUSER 10Y15MCA80

During the academic year 2016-2017

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(Principal, POCE, Bengahum)

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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

"Data Injection Attacks And Cross Site Scripting Attacks Using Security Content Policies"

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

Master of Computer Applications

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

> SANDHYA.R 10Y15MCA81

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CERTIFICATE

This is to certify that the project work entitled

CLOUD PLATFORM BASED NEEDS DEVELOPMENT ADVISER AND MENTOR

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

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

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This is to certify that the project work entitled

PROVABLE MULTICOPY DYNAMIC DATA POSSESSION IN CLOUD COMPUTING

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This is to certify that the project work entitled

CLOUD BASED ONLINE TRAVELLERS HUB

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

degree of

Master of Computer Application

from Visvesvaraya Technological University, Belgaum is a result of the bonafied work carried out by

SIVAGIRI CHANDRIKA RANI 10Y15MCA88

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CERTIFICATE

This is to certify that the project work entitled

LEADS DISPLAY PANEL-EMAIL

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

Master of Computer Applications

From Visveswaraya Technological University, Belgaum

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SWATHI M UTTARESHWAR

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CERTIFICATE

This is to certify that the project work entitled

"CONCEPTUAL MECHANISM TO RESOLVE CONFLICTS IN SOCIAL NETWORKS"

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

SWATHIR 10Y15MCA92

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> SYED AFWAN 10Y15MCA93

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CERTIFICATE

This is to certify that the project work entitled

DOCS ZONE: THE DOCUMENT CLOUD STORAGE SYSTEM ZONE USING CSS3, BOOTSTRAP, AND LARAVEL

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

Master of Computer Applications

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

VARSHA V HEGDE 10Y15MCA94

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Principal

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Bengaluru-560 008

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



CERTIFICATE

This is to certify that the project work entitled

PERFORMANCE ANALYTICS GENERATOR WITH LIVE ASSOCIATIONS

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

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VITHAL M KONNUR 10Y15MCA95

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This is to certify that the project work entitled

IMAGE RETRIEVAL TAG BASED BY SOCIAL WEBSITES

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AJAY

10Z15MCA70

During the academic year 2016-2017

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Dr. R v Pravecina Gowda Principal

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Rommanahatti, Hosur Road, Hengaluru 560 068

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CURTIFICATE

This is to certify that the project work entitled

IDENTIFYING LUMP LETDOWN IN PORTAL WIRELESS GRIDS

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

Master of Computer Applications

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

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During the academic year 2016-2017

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CERTIFICATE

This is to certify that the project work entitled

MECHANISM OF SOCIAL NETWORKING TO E-COMMERCE USING MICRO BLOG'S INFORMATION

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

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Signature of the Guide

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CERTIFICATE

This is to certify that the project work entitled

FINCOP(FINANCIAL CORPORATION)FINANCIAL AUTOMATION FOR THE RURAL DEVELOPMENT.

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BIJAY CHETTRI

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CERTIFICATE

This is to certify that the project work entitled

VIRTUALIZED RESOURCES ALLOCATION METHOD USING CLOUD COMPUTING

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

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> NAYANA A 10Z15MCA79

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Bengeluru-580 068

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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 SAS ANDROID TECHNOLOGY

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

Master of Computer Applications

from Visveswarzyz Technological University, Belgaum

is a result of the bonafide work carried out by

NIKHIL H S 10Z15MCA80

During the academic year 2016-2017

Signature of the Guide

Achutha J C

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Dr. M.S. Shashidbara (Dept. of MCA. TOCE)



Signature of the Principal Dr. R.V. Praveena Gowda (Principal, TOCE, Bengaluru)

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Name of Examiners

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Bommanahalli, Hosur Road, Dengalura-560 068

Department of Master of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

PRIVACY PRESERVING OUTSOURCED ASSOCIATION RULE MINING ON VERTICALLY PARTITIONED DATABASK

Submitted in partial fullillment of the requirement for the award of the deprecial

Master of Computer Applications

From Visveswaraya Technological University, Helagavi. is a result of the boundide work carried out by

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Dr.R.V. Prayeena Gawda

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Bommanahalli, Hosur Road, Bengahiru-560 068 Department of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

WEB APPLICATION THAT CONTRIBUTE CONVENIENCE WAY TO TRAIN THE EMPLOYEE IN AN ORGANIZATION (BAROQUE - 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

RAHUL R. PATEL 10ZISNICA82

during the academic year 2016-2017.

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(HOD, Dept. of MCA)

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The Head

Department of MCA

The Oxford College of Engincerim

External Viva Name of the Examiners Hosur Road, BANGALORE - 60.

Signature with date

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Bommanahalli, Hosur Road, Bengaluru-560 068

Department of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

DIGITAL CORPARATIVE OUTLINE DESIGNER WITH REPORTS ASSOCIATION

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

> ROUF AHMAD IOZ15MCAMCA84

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(Principal, TOCE, Bengaluru)

Dr. RV Fr. 1 cop Sowaa

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Bommanalulli, Hosur Road, Bengaluru-560 068 Department of Computer Applications



CERTIFICATE

This is to certify that the project work entitled

ON PREMISES DEPLOYMENT MODEL TECHNIQUES

PROVIDER WITH ENCRYPT TRANSFERS

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10Z15MCA85

During the academic year 2016-2017.

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VISHNU DEV T 10ZI5MCA86

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