

# 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, Bangalore-560068

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



### CERTIFICATE

Certified that the Project entitled "IOT Based Energy Monitoring System" has been carried out by Afreen M(1OX15CS004), Israa Bint Rahman Salman(1OX15CS039), Manu(10X15CS053), Megha Agarwal(10X15CS055), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. Thus, is certified that all correction / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect to the project work.

Assistant Professor

Dr. E Sarav

H.154D, Openartment of CSE
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. Pravedna Gowda

Principal, TOCE

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Name of the Examiners

Saravana Cumar

Hosur Road, Bommanahalli, Bangalore-560068

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### **CERTIFICATE**

Certified that the Project entitled "Smart Irrigation System with Disease Detection Analysis" has been carried out by Anurag V(10X15CS013), Anvitha J Shetty(10X15CS014), Brundha T R(10X15CS020), Nagarjun M(10X15CS059), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. Thus, is certified that all correction / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect to the project work.

Dr.E Sarayana Kumar

**Project Guide** 

Dr. E\Sarayana Kumar

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### CERTIFICATE

Certified that the project work entitled "HELMET MUST BIKE" carried out by Anupriya A (10X15CS012), Fouziya Banu D (10X15CS029), Kirankumar G (10X15CS049), Prajwala R (10X15CS129) 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 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

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### CERTIFICATE

Certified that the project work entitled "MINIMIZING ELECTRICITY THEFT BY USING IOT" carried out by CHANDAN NAIK (10X15CS022), MARUTHI B(10X16CS407), GAGAN S R(10X16CS04), NISHA J(10X15CS065), bonafied 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 2018-2019. The final project report has been approved as it satisfies the academic requirements in report of project work prescribed for the said degree.

Mrs.Tintu Thampi

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Name of the Examiners

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1. Dr. E Saravana Kumor

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#### CERTIFICATE

Certified that the Project entitled "Rainfall prediction using machine learning techniques" has been carried outby Chethan k(10X15CS025), Genupula Mahesh Reddy(10X15CS031), Monish L(10X15CS058), Namitha A(10X15CS060), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. Thus, is certified that all correction / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect to the project work.

Ms. Seema Patil

Associate Professor

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# Department of Computer Science and Engineering



### **CERTIFICATE**

Certified that the Project work entitled "IOT BASED SMART PARKING SYSTEM" has been carried out by Disha E (10X15CS027), Gowrishree H L (1OX15CS032), J Sonika (1OX15CS040) and Zaid Moosaraza (1OX15CS126) bonafide students of The Oxford College of Engineering, Bangalore, in partial fulfilment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-2019. 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. **Project Guide** 

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Name of the examiners Signature with date

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### CERTIFICATE

Certified that the project work entitled "AUTONOMOUS AMBULANCE MODEL" carried out by HARISH H (10X15CS035), JENZ JOHN SIMON (10X15CS043), MANU K V(10X15CS127), JAGADEESH VISHAL K (10X15CS128) bonafied 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 2018-2019. The Mini project report has been approved as it satisfies the academic requirements in report of project work prescribed for the said degree.

Mr.Senthil Kumar

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### CERTIFICATE

Certified that the Project entitled "DENSITY BASED TRAFFIC SIGNAL OPTIMIZATION USING IMAGE PROCESSING" has been carried out by Aiahvaryaa Lakshmi (10X15CS005), Anagha PV(10X15CS009), Apoorva MR (10X15CS015), Joseph Noel Vinodh (10X15CS044), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. Thus, is certified that all correction / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect to the project work.

Prof.Sushma G

Dr. E Saravana Kumar

Dr. R.V Praveena Gowda

Associate Professor

HEAD IN POPULE DEPARTMENT

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### CERTIFICATE

Certified that the project entitled "HUMAN PROTEIN CLASSIFICATION" carried out by AMAN KUMAR PANDEY (10X15CS008), ANIKET KUMAR SINGH (10X15CS010), KALI KIRAN KUMAR K (10X15CS047) and MANEESH KUMAR V (10X15CS052) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. This is certified that all correction / suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect project work.

Prof. Latha

Project Guide

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Name of the Examiners

1. Dr. E. Saravana Cumar



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### CERTIFICATE

Certified that the project entitled "REAL TIME HAND GESTURE RECOGNITION INTERACTION SYSTEM USING OPENCY" **HUMAN COMPUTER** AND by AJAY MOURYA (10X15CS006), HEENA KOUSER (10X15CS036), carried HIRPARA DIVYANG VINUBHAI (10X15CS038) and JAYKUMAR SAVANI (10X15CS042) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. This is certified that all correction / suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect project

Ms. J. Jesy Project Guide

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Name of the Examiners



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### CERTIFICATE

Certified that the Project entitled "Automatic Pet Feeding and Monitoring System Using IOT" has been carried out by Akshatha S V (10X16CS400), Chaithra T C (10X16CS402), Kavya V P(10X16CS405), Manjunath M (10X16CS406), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. Thus, 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 to the project work.

Mrs. Anjali Rajesh

Dr. E Saravana Kumar

Dr. R.V Praveena Gowda

Associate Professor

HEAD OF THE DEPARTMENT

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Name of the Examiners

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Department of Computer Science and Engineering



### **CERTIFICATE**

"SMART entitled Project work Internship the Certified REFRIGERATOR" has been carried out by NAVENDU (10X15CS062), VISHAL SHARMA (10X15CS125), M BOBORAJ SINGH (10X15CS054) bonafide students of The Oxford College of Engineering, Bangalore, in partial fulfilment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-2019. The Main 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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Dr. E. Saravana Kumar

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Rommanahalli Hosus Dood

Name of the examiners Signature with date



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### **CERTIFICATE**

Certified that the Project entitled "Smart Vehicle Automated System" has been carried out by Dharshita N S L V(10X15CS025), Lakshmi Priya M (10X15CS050), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. Thus, is certified that all correction / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect to the project work.

Ms. Sushma T S

**Assistant Professor** 

Dr. E Sarayana Kumar

H.O.D ,CSE

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R V Praveena Gowda

Principal, TOCE

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Signature with Date

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# Department of Computer Science and Engineering



### **CERTIFICATE**

Certified that the project work entitled "ALEXA BASED SECURITY SYSTEM USING AI AND PI CAMERA" carried out by POORNIMA M(10X15CS071), REKHA M(10X15CS087), SNEHA V(10X15CS100), SWATHI SURESH BHATKAL(10X15CS112) bonafide students of The

Oxford College of Engineering, Bengaluru in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. The final project report has been approved as it

satisfies the academic requirements in respect of project work prescribed for the said degree.

Mr.Senthil Kumar

**Project Guide** 

Dr. E. Saravana Kumar

H.O.D.Dept. of CSF HEAD OF THE DEPARTMENT

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Dr. R.V. PRAVEENA GOWDA

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Name of the Examiners

Hosur Road, Bommanahalli, Bangalore-560068

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### **CERTIFICATE**

Certified that the project entitled "Blockchain: A Magic Bullet For Healthcare Cloud-Based Data Security And Isolation" carried out by Supriya P (10X15CS110), Navya G (10X16CS409) and Nithin Singh K (10X16CS056) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. This is certified that all correction / suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect project work.

Prof. Seema Patil **Project Guide** 

SARAYANA KUUMAR, M.E., Ph.D.

ASSOCIATE PROFESSOR DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING

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### **CERTIFICATE**

Certified that the Project entitled "Automated Attendance System based on Facial Recognition" has been carried out by NIVEDITA DHOTRE (10X15CS066), P SAI SAMANTH KUMAR (10X15CS069), POOJA S PRASANNAN (10X15CS074), SAGARIKA SV (10X15CS084), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. Thus, is certified that all correction / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect to the project work.

Naven H.S

Mr. Naveen H.S

**Project Guide** 

HEADIODING DEPARTMENT DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Dr. R.V. PRAVEENA GOWDA THE OXFORD COLLEGE OF ENGINEERING

Dr. R.V

Principal

PRINCIPAL

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# Department of Computer Science and Engineering



### **CERTIFICATE**

Certified that the project work entitled "AUTOMATIC AND INTELLIGENT STREET LIGHTING SYSTEM USING IOT AND CLOUD" carried out by RIJO JOHN RAJAN (10X15CS088), SAHANA SHREEDHAR KULKARNI (10X15CS093), SWETHA PRADEEP (10X15CS113), TALARI SURYA TEJA (10X15CS114) bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. The final 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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Dr. E Sacavana Kumar

·Associate Prof & H.O.D, Dept. of CSE

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SARAVANA KUMAR, M.E., Ph.D. ASSOCIATE PROFESSOR

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Name of the Examiners

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

# Department of Computer Science and Engineering



### **CERTIFICATE**

Certified that the Project entitled "MOBILE CLOUD COMPUTING IN SMART CITIES VIA RANDOMIZED ALGORITHM" has been carried out by PRIYADARSHINI R (10X15CS078), ROSHINI CS (10X15CS090), RUKSAR M (10X15CS091), SOUNDARYA K (10X15CS103), bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. The project report has been approved as it satisfies the academic requirements in respect to the project work.

Mrs. Sushma G

**Project Guide** 

Dr. E Sarayapa Kumar

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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 "DESIGING A SECURE EXAM MANAGAMENT SYSTEM (SEMS) FOR M-LEARNING ENVIRONMENTS" carried out by PRAVALIKA R (10X15CS077), R K PRATIBHA (10X15CS079), SHILPASHREE M (10X15CS098), SNEHA ALAGOUDA PATIL(10X15CS101) bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. The final project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mrs. J Jesy Janet Kumari

Dr. E Saravana Kumar

**Project Guide** 

Dr. SARAVANA RUMAR, SE. Ph.D.

ASSOCIATE PROFESSOR

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING

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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 "CLASSIFICATION OF DIABETIC RETINOPATHY" carried out by SOWMYA H D (10X15CS105), SULOCHANA (10X15CS108), SWATHI P (10X15CS111), VIJETHA V KANCHAN (10X15CS123) bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. The final project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mrs. Sowmya H K

Project Guide

Dr. E Saravana Kumar

H.O.D Dept. of CSE HEAD OF THE DEPARTMENT

HEAD OF THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Name of the Examiners

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#### CERTIFICATE

Certified that the Project work entitled "TWO WHEEL SELF BALANCING ROBOT" carried out by **PAVAN** (10X15CS067), PRAJWAL K· S **KALYAN** (10X15CS072), PRAJWAL Y (10X15CS073), VIKRANTH K(10X15CS081) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. The Final Project report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said degree.

Prof. Shobha T

**Project Guide** 

Dr. E Saravana Kumar

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING R.V. PRAVEENA GOWDA THE OXFORD COLLEGE ( TENGINEERING

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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 "Cloud Computing Fitness for E-Government Implementation: Importance-Performance Analysis" carried out by Apoorva M G (10X16CS401), Divya K G (10X16CS403), Sowmya C N (10X15CS410), 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, Belgavi during the year 2018-2019. This is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposioted in the department library. The Project report has been approved as it satisfies academic requirements in respect of project work.

Ms. Sushma T S

**Assistant Professor** 

Dr. E. Saravana Kumar

Head of the department
HEAD OF THE DEPARTMENT

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FORD COLLEGE OF ENGINEERING
BENGALURU - 560 068

Dr. R. Praveena Gowda

Principal, TOCE

Dr. R.V. PRAVEENA GOWDA
PRINCIPAL

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

Name of the Examiners

1. Dr. E. SARAVANAKUMAN

2. ASHIMI &

Bommanahalli, Hosur Road, Bangalore - 560068

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

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



### CERTIFICATE

Certified that the project entitled "PERSONALIZED TRAVEL SEQUENCE RECOMMENDATION ON MULTI-SOURCE BIG SOCIAL MEDIA" carried out by Prashant Surin (10X15CS075), Rajdeep Mukherjee (10X15CS082), Ram Prasad Poudel (10X15CS083), Sarath S Jyothis (10X15CS096) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. This is certified that all correction / suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect project work.

Ms. Tintu Thampi

Dr. E Sarayana/Kumar

Praveena Gowda

**Assistant Professor** 

HEAD OF THE DEPOSITE HEAD DE DESCRIPCION PRINCIPAL TO CE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERIND T. R.V. PRAVEENA GOWDA PRINCIPAL

THE OXFORD COLLEGE OF ENGINEERING

BENGALURU - 560 068 **External Viva** 

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

Name of the examiners

SARAVANA KUMAR

Bommanahalli, Hosur Road, Bengaluru – 560068

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

# Department of Computer Science and Engineering



### CERTIFICATE

Certified that the project work entitled "ANDROID-BASED INDOOR & OUTDOOR NAVIGATION FOR THE VISUALLY IMPAIRED" carried out by PRATHYAKSHA SHETTY(10X15CS076), SUDARSHAN GOWDA C M (10X15CS106), SUJAI B R (10X15CS107), T. KISHORE REDDY (10X15CS117) bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. The final project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Project Guide** 

Dr. E Saravana Kumar

Head of the Department

HEAD OF THE DEPARTMENT

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING The Oxford College of Engineering THE OXFORD COLLEGE OF ENGINEERING

BENCHLYRUMANOVIVA

Dr. R V Praveena Gowda

Principal, TOCE

Dr. R.V. PRAVEENA GOWDA

Bommanahalli, Hosur Road Bengaluru-560 068.

Name of the Examiners

Signature

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Hosur Road, Bommanahalli, Bangalore-560068

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



### **CERTIFICATE**

Certified that the Project entitled "Real-time Comprehension Classification using Artificial Neural Network" has been carried out by Ramya G(10X15CS085), Rohini V(10X15CS122), Tiwary(10X15CS097), Varsha R(10X15CS089), Saurabh bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. Thus, is certified that all correction / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect to the project work.

Mrs. Latha R

Dr. R.V Praveena Gowda

**Assistant Professor** 

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERIND R. R.V. PRAVEENA GOWDA

THE OXFORD COLLEGE OF ENGINEERING

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

Name of the Examiners

DY. E . C'ARAVANA IWMAR

Signature

Bommanahalli, Hosur Road, Bangalore – 560068

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

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



### **CERTIFICATE**

Certified that the project entitled "TWITTER SENTIMENTAL ANALYSIS" carried out by Sovanlal Bera (10X15CS104), Uddipta Poddar (10X15CS119) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. This is certified that all correction / suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect project work.

Ms. Swetha P
Assistant Professor

Dr. E Saravana Kumar

H.O.D, Dept. of CSE

HEAD OF THE DEPARTMENT

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING

External Viva

Name of the examiners

1. SHOBHA. T

2. Dr-J. Ambaruel

Dr. R.W PRAVEENA GOWDA

Dr. R.V Priverna Gowda The Oxford College of Englifeering Bomringipal TOCE Road

Bengaluru-560 068.

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 Automated Agriculture Drone With Disease" Detection And Spray Medicine" carried out by D RAGNI SHATABDA (10X15IS027), DIVYA V (10X15IS036) and MANDARA K M (10X15IS061), bonafide students of The Oxford College Of Engineering, Bengaluru in the fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Asst. Prof. Dept. of ISE

Dr. R. Kanagavalli Dr. R. KANAGAVALLT PROFESSOR & HOD-ISE Professor a college of Englieering Bommenahalli, Hosur Main Road BERGELAND \560,068.

Praveena Gowda

Dr. R.V. PRAVEENA GOWDA PROBLEDOCE

The Oxford College of Engineering Bommanmal Hosur Road Bengaluru-60 068

Name of the Examiners

Ms. VIJaya. S.C

2. Channappo Gonda

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



### CERTIFICATE

Certified that the project work entitled "FitFlex - Efficient Smart Watch For Workout Tracking" carried out by G VINAY BHARGAV (10X15IS039), GANESH PALLA (10X15IS040) and HARSHA S KULKARNI (10X15IS042) bonified students of The Oxford College Of Engineering, Bengaluru in partial fulfillment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Asst.professor

The Oxford Sologe of IOD meering he Oxford Principal AL Bommanaballi Land of E Bommanahalli, Hosur Main Road,

Dr.R.V.Praveena Gowda

Dr. R.V. PRAVEENA GOWDA

of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Name of the Examiners

Signature with Date

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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 "Virtuala - The Smart Glass" carried out by MAYURI MUNNOLIMATH (10X15IS064), SABA KAUSER (10X15IS099), SHEHZA HUSSAIN (10X15IS1079) and VARSHA LOKESH (10X15IS121), bonafide students of The Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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.

PROPESSOR & HOD-ISE

The Professor & Head Engineering Bommenahalfi, Hosur Main Road. Bangalore 560 068.

PROFESSOR & HOD-ISE The Oxford College Of Engineering Bomiltenterson, Nostr Main Road, Bangalore 560 068.

**External Viva** 

Name of the Examiners

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Department of Information Science and Engineering



### CERTIFICATE

Certified that the Project work entitled "SMART CANE FOR THE BLIND AND VISUALLY IMPAIRED PEOPLE" carried out by MARIA SANJANA G (10X15IS063), RACHITHA R NAYAK (10X15IS087), RUCHITHA K (10X15IS093), bonafide students of The Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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. R. Kanagavalli

Dr. R. KANAGAVALLI Professor a Head-ISE The Oxford Sollege Of Engineering Bommenahalli, Hosur Main Road

Dr. Praveena

Dr. R.V. PRAVEENA GOWDA

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

Name of the Examiners

Signature with Date

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Department of Information Science and Engineering



### CERTIFICATE

Certified that the project work entitled "Automatic Door Access System Using Face Recognition" carried out by HEMA (10X15IS045), JASHNAVI (10X15IS047) and KODIPALLI MOUNIKA (10X15IS055), bonafide students of The Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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.

lide Ms. Sindhuja R

Asst. Professor

Dept. of ISE

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Name of the Examiners

gowda D.V

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Department of Information Science and Engineering



### CERTIFICATE

Certified that the project work entitled "MY FRIEND – A PERSONAL ASSISTANT FOR DRIVER" carried out by Kavya S Aiholli (10X15IS053), Mallika G A (10X15IS059), and Manasa K R (10X15IS060) bonafide students of The Oxford College Of Engineering, Bengaluru in the fulfillment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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. Visalini S

Asst. Prof,Dept. of ISE

Dr. D. Vanagaralli

Dr. R. Kanagavalli

DP PETERSON CHANGELLI

The Oxford Sollege of Engineering Bommanahalli, Hosur Main Road,

Bangalore 560 068. External Viva Dr. R.V Praveena Gowda

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The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 or 5

Name of the Examiners

1. Ms. Vijaya SC

2. Channappe Gowde D'V

Signature with Date

(i)

Hosur Road, Bommanahalli, Bengaluru-560068

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Department of Information Science and Engineering



### CERTIFICATE

Certified that the Project work entitled "SMART HELMET WITH CALL CONTROL" carried POOJA B S (10X15IS075), REEWA R (10X15IS091), SADIYA KAUSAR (10X15IS100), SUSHMITHA N (10X15IS111) bonafide students of The Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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. R. Kanagavalli Dr. R. KANAGAVALLI

Prof, Dept of ISE

Bommanahaki, Hesur Main Road, Bangalore 500 008.

**External Viva** 

Name of the Examiners

2. M. M. Kurayardle

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

# THE OXFORD COLLEGE OF ENGINEERING BANGALORE

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Department of Information Science and Engineering



### **CERTIFICATE**

This is to certify that the project work entitled "Dynamic Connection Load Balancing Using Nano Cloudlet" carried out by PAWAN SHARMA (10X15IS074), RUKHIYA KULSOOM M (10X15IS094), SANJANA HARI (10X15IS103) bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. The project report has been approved as it satisfies the academic requirements in respect of work prescribed for Bachelor of Engineering.

Mrs. Suganya R

Assistant Professor Department of ISE Dr. R. Kanagavalli

Professor & MOD-ISE
The Object Coneys of Engineering
Bommanahalli, Hosur Main Road,
Bangalore 500 088.

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Dr. R. Pravena Gowda

Principal TOCE Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

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

Name of the Examiners

Signature with Date

1. Da. A Varagaralle

2. DEEPTIC

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Department of Information Science and Engineering



### CERTIFICATE

Certified that the project work entitled "Parallel data access on distributed file systems through opass algorithm" carried out by RAMYA K M (10X15IS090), S NADIYA (10X15IS097), SALINI R S (10X15IS102) and SREELAKSHMI V (10X15IS108), bonafide students of The Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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. Vinodha K

Asst.Professor, Dept of ISE

Dr.B. Kanaga EdliALLI PROFESSOR & HOD-ISE Tipe-on the Head Dept of Mile

Bommanahalli, Hosur Mai Pangalore 560 08

**External Viva** 

Name of the Examiners

1. Dr. M. Kunggaralla

2. DEFPTI.C

Dr.Praveena Gowda

DE R.V. PRAVEENA GOWDA Principal TOGEPAL

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

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



#### **CERTIFICATE**

Certified that the project work entitled "Advanced License plate recognition and detection" carried out by RAKSHTIH V(10X15IS089), RUTHWIK SAGAR (10X15IS095), SUDHANVA DESHPANDE (10X15IS098) and SUDEEP S D(10X15IS110), bonafide students of The Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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. Chlaiselvi S

Assistant Professor

Department of ISE

Dr. R. Kanagavalli

PROFESSOR & HOD-ISE

The Oxford College Offingineering
Bommanahalli, Hosur Main Poad

Bangalore 560 068

Dr.Praveena Gowda

Principal, TOCE

Dr. R.V. PRAVEENA GOWDA PRINCIPAL

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**External Viva** 

Name of the Examiners

1. Dr. R. Korregaralli

2. DEEPTIC

Signature with Date

13/2 13/2

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(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



#### CERTIFICATE

Certified that the Project work entitled "A NOVEL APPROACH TO PROVIDE PROTECTION FOR WOMEN BY USING SMART RING" carried out by RAKSHA K (10X15IS088), SRI ROOPINI U (10X15IS109), SUVARNA PATIL (10X15IS112) bonafide students of The Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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

Asst.Prof, Dept of ISE

Dorka Kanagavalli PROFESSOR & HOD-ISE

Bangalore 560 068.

Dr. Praveena Gowda

Principal, TOCE

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

Dr. R.V. PRAVEENA GOWDA

Signature with Date

External Viva Name of the Examiners

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



#### **CERTIFICATE**

Certified that the project work entitled "Brain Tumor Detection and Classification" carried out by POOJA M R (10X15IS076), PRAKRUTHI P S (10X15IS077) AND SYEDA AFRIN(10X15IS117) bonafide students of The Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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.Karthik SV

Asst.Professor

Drick Kanggavalli
PROFESSOR & HOD-ISE
The Oxford College Of Engineering
Bommanahalii, Hosur Main Read,

External Viva

Dr. Praveena Gowda r. R. V PRAV VINA GOWDA

The Oxford College of Engineering

Bommanahalli, Hosur Road Bengaluru-560 068.

Name of the Examiners

1. Dr. A. Karaganalla

2. DEEPTI. C

Signature with Date

1 12 19 13) 1

ii

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi) Department of Information Science and Engineering



#### CERTIFICATE

Certified that the project work entitled 'Innovative Image Search Engine with hidden tags using image processing techniques" carried out by SARITHA KUMARI K (10X15IS104), VARSHA U V (10X15IS122) and VRISHANKA ISLOOR (10X15IS124) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Information Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mr. Champappa Gowda D. V Asst. Prof. ,Dept. of ISE

Dr. R. Kanagavalli

Professor and

Head of Dept. and Mole. PROPESSOR & HOD-ISE

Bommanahatti, Hosur Main Ro Deliverational 990,088.

Dr.R.V. Praveena Gowda

Principal, TOCE

Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

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

Name of the Examiners

DEEPTT. C

Signature with Date

all. 13) b) 19

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



#### CERTIFICATE

Certified that the project work entitled "Forecasting Of Stock Market using machine learning" carried out by NADEEM AHMED S (10X15IS066), P VIJAY BHARATHI (10X15IS073), RISHABH AGARWAL (10X15IS092) and SYED MOHOMED SULAIMAN(10X15IS116); bonafide students of Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvarava Technological University, Belagavi, during the year 2018-2019. 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

Professor

PROFESSOR & HOD-ISE The Oxford Sallege Of Cardy incering Bommanahalli, Hosur Main Road, Bangalece fifth of Ra

Name of the Examiners

nnappe gonda siv

veena Gowda

Dr. R.V.Principal NA GOWDA

The Oxford Course of Engineering Bommanahum, Hosur Road

Signature with Date 50 068

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

Department of Information Science and Engineering



#### CERTIFICATE

Certified that the project work entitled "Energy Efficient Reliable With Encryption for WSN" carried out by Abhinav Suman (10X15IS001), Hemanth Kumar AV (10X15IS046), and K.Mohammed Hayath (10X15IS051) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Information Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2018-2019. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Dr. Vinodha . K

PROFESSOR & HOD-ISE Dr. R.V. PRAVEENA GOWDA

Asst.Professor, Dept. of ISE

The Oxford Goilege Of Engineering Bonnanananan, 4 Deprinanan Pengerora College of Engineering Bengalere 500 068.

Bommanahalli, Hosur Road Bengaluru-560 068.

**External Viva** 

Name of the Examiners

Signature with Date

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



#### CERTIFICATE

Certified that the project work entitled "Emotion Detector For Medical Application" carried out by Abhishek M S (10X15IS002), Akshay P Shetty (10X15IS010), Anshu Agarwal (10X15IS014) and Darel V Johny (10X15IS028) bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Asst.Proff

PROPESSOR & HOD-ISE

The Partheoliges Of hesineering Bommenahalli, Hosur Main Road, Dr. R.V. PRAVEENA GOWDA

Bangalore 560 068. External Viva

Dr. Praveena Gowda

Principal, TOCE

The Oxford College of Engineering Bommanahalli, Hosur Road

Signature with Date 60 068.

Name of the Examiners

(i)

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 Real Time Android Application Based Traffic Monitoring and Vehicle Tracking System" carried out by ASHA TIRLAPUR (10X15IS016), DEEPA D (10X15IS030), NANDINI S (10X15IS067) and NAVYA S (10X15IS068) bonafide students of The Oxford College Of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018 -2019. 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.

D. Jayaramaiah

Dr. R. Kanagavalli

Professor

Department of ISE

Name of the Examiners

Professor & Head Bommanahalli, Hosur Main Road. Bangalore 560 068.

External Viva

Signature with Date

Praveena Gowda

Principal, TOCE

Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

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1. P. Kokila 2. Gausi S Rapate

(ii)

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(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



#### CERTIFICATE

project work entitled "SIGN LANGUAGE TO Certified that the CONVERSION" carried out by B M PRAKRUTHI (10X15IS020), DEEPTHI A (10X15IS031), K HARSHITHA (10X15IS050) and KARISHMA PAHALWAR (10X15IS052) bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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. Chapnappa Gowda D V

Dr. R. Kanagavalli

Dr. R. HAMMUNIALLI

Asst. Prof. Dept. of ISE

Professos CRIA da ODE 5t. of ISE The Oxford College Of Engineering BOOKHAMADANI, Heene Mala Read,

Signature with Date

Praveena Gowda

Dr.R.V. PRAVEENA GOWDA

PRINCIPAL
The Oxford College of Engineering

Bommanahalli, Hosur Road

Bengaluru-560 068.

Name of the Examiners

1.

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Department of Information Science and Engineering



#### CERTIFICATE

Certified that the Project work entitled "AIR QUALITY ANALYSIS USING MACHINE LEARNING" carried out by BITTY CLEATUS (10X15IS024), HEEBA MOINUDDIN (10X15IS044), KHUSHI SINGH (10X15IS054) and LAKSHMI MADHUMITHA P (10X15IS057) bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2018-2019. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Asst. Prof, ISE

PROFFESSORO HOUSE
The Oxford College Of Engineering Bommanahalli, Hosur Main Road Dengalore 500 068 External Viva

Name of the Examiners

Dr. R.V. Praveena Gowda

Dr. Remeipal VEOCEA GOWDA PRINCIPAL

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

Signature with Date

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

Department Of Electronics and Communication Engineering



## CERTIFICATE

This is to certify that the Project work entitled "CLASSIFICATION OF CANCEROUS PROFILES USING MACHINE LEARNING" carried out by SAI THEJASREE U V (10X15EC083), SUSHMITHA R (10X15EC098), TEJASHWINI RENAKE (10X16EC420), POOJA B L S (10X15EC063) bonafide students of THE OXFORD COLLEGE OF ENGINEERING, Bangalore in partial fulfillment for the award of degree of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2018-2019. The Project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the degree.

GUIDE

R.BHARGAVA RAMA GOWD Dr. MANJU DEVI Dr. R.V.

Asst. Professor,

Dept. of ECE, TOCE

Padest Of The Department Engineering DIPRIMIRRANDENA GOWDA

Trap Oxford College of Engineering The Oxford College of Engineering

Bommananalli, Bangalore - 560 068.

Bommanahalli, Hosur Road Bengaluru-560 068.

Name of the Examiners

1 DR SHASHIDHAR

2. Dr. Porch Chan

P. Shares

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

Department of Electronics and Communication Engineering



## CERTIFICATE

This is to certify that the Project work entitled "GREEN CAMPUS" is a bonafide work carried out by ANAND KUMAR D (10X15EC011), CVSR SRINIVAS (10X15EC022), KEVIN CHRISTY D (10X15EC043) and MUHAMMAD SHAHEER (10X15EC055) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

GUIDE

Mr. JAYARAJ N Asst .Prof, Dept. of ECE Professor & HOD 9

Fingineering, R.V. PRAVEENA GOWDA THE Oxford Oollege of Prigineering Dr. R.V. PKAVEENA GOWLA

Bommananalli, Bangalore - 560 068. The Oxford College of Engineering

Bommanahalli, Hosur Road Signature with date

Name of the Examiner

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



## **CERTIFICATE**

This is to certify that the project work entitled "DETECTION OF ONCOLOGICAL CELL IN NANO-PLATFORM USING SPR TECHNOLOGY" carried out by Ashwini S (10X15EC017), Bhavana C M (10X15EC020), Farha Rahman (10X15EC030), Meenu Harshan(10X15EC052) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAUM during the year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Mrs.Sowmya Padukone G Professor MANH DEVI Dr.R.V.PRAVEENA GOWDA
Assistant Professor, Dept. of ECE, TOCE
Dept. of ECE, TOCE
Dept. of ECE, TOCE

Bommananalli, Bangalore - 560 064, The Oxford College of Engineering Bommanahalli, Hosur R had Bengaluru-560 068.

NAME OF EXAMINER

SIGNATURE WITH DATE

2. Ar. Juston till

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

Department of Electronics and Communication Engineering



### CERTIFICATE

Certified that the Project entitled "OPTO MECHANICAL SYSTEMS FOR PRESSOR SENSOR" Carried out by CHAITRA K (10X16EC405), NIVEDITA C (10X15EC021), SHRINIDHI BHAT (10X15EC089), S UDDANESHWARA (10X15EC081), bonafide students of THE OXFORD COLLEGE OF ENGINEERING, Bangalore in partial fulfillment for the award of the Degree of BACHELOR OF ENGINEERING in ELECRONICS AND COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAVI during the academic year 2018-2019. The Project report has been approved as it satisfies the academic requirements in respect of Project prescribed for the said degree.

Project prescribed for the said degree.	Tespect of
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	♥ PRINCIPAL -
Prof. Dept. of ECE to On HOD, Dept. of ECE	Dr. R.V. PRAVEENA GOWDA Dr. R.V. PRAVEENA GOWDA
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Traine of Examiner analytic Bandalore-560 068.	The Oxford College of Engineering Signature with Date oad Bd date 560 068.
1. DR. SHASHIDHAR	
2	

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

Department of Electronics and Communication Engineering



## **CERTIFICATE**

Certified that the project work entitled "DATA TRANSMISSION USING LIFI" carried out by GOWTHAM M (10X15EC034), HAROON KHURSHEED (10X15EC035), HEMANTH KUMAR S (10X15EC038), GUHAN M S (10X15EC110) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electronics And Communication Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Ms. ARUNA J
Asst. Professor,

Dept. of ECE

Dr. MANJU DEVI

Prefessor & HOD of E&C Engineering ine Oxford College of Engineering Bommananalli, Bangalore-560 668.

Dr. R.V. PRAVEEN GOWDA

Dr. R. DE AVEENA GOWDA
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Bommanahalli, Hosur Road Bengaluru-560 068.

Name of the Examiners

2. Dresotherh Kullai

Signature with date

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



## **CERTIFICATE**

This is to certify that the project work entitled "MEDICINE VENDING MACHINE" carried out by Tanveer Ahmed (10X15EC100), Basheer Ahmed (10X16EC404), Shivam(10X15EC088), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAUM during the year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Dr. MANJU DEVI Professor and HOD Dept. of ECE, TOCE

NAME OF EXAMINER

1. DE SHASHIDHAR

2 Dr. Prest he

Professor and HOE Engineering Principal CTOCE

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R. Chare Tale

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 "Implementation of a Secure and Smart Lab With Automation System" carried out by GOVIND (10X15EC033), KIRAN BIRADAR (10X16EC407), SHIVAPUTRA (10X16EC416), bonafide students of THE OXFORD COLLEGE OF ENGINEERING, Bangalore in partial fulfillment for the award of the Degree of BACHELOR OF ENGINEERING in ELECRONICS AND COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2018-2019. The Project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the degree.

GUIDE

NITHIKA BHASI Asst Professor,

Dept. of ECE, TOCE

rofessor & HOD of EEC Engineering

The Oxford College of Engineering Bommananalli, Bangalore - 560 068.

R.V.PRWEENA GOWDA

PRINCIPAL

Head of the Institution

Dr. R.V. PREQUENA GOWDA

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

Signature with date

Name of the Examiner

2) Dr. Julhanh Kullai

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

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



## CERTIFICATE

This is to certify that the project work entitled "MEDICINE VENDING MACHINE" carried out by Tanveer Ahmed (10X15EC100), Basheer Ahmed (10X16EC404), Shivam(10X15EC088), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAUM during the year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Dr. MANJU DEVI Professor and HOD Dept. of ECE , TOCE

NAME OF EXAMINER

1. DR. SHASHIDHAR

2 Driforde Show

Professor and HOD Ine Oxford College of Engineering

Bommananalli, Bangalore - 560 068. Bommananalli, Hosur Road SIGNATUR NATIO 88.

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Department of Electronics and Communication Engineering



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N.W 10/06/19 GUIDE

Mr. JAYARAJ N Asst Prof. Dept. of ECE Professor & HARA OBE&C Engineerings. V. PRAVEENA GOWDA

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The Oxford College of Engineering

Name of the Examiner

2 Dr. Inshails Kulken

BOMMANAHALLI, HOSUR ROAD, BENGALURU - 560 068

(Affiliated to VTU and Approved by AICTE)

Department of Electronics and Communication Engineering



## **CERTIFICATE**

This is to certify that the Project work entitled "AUTOMATION OF FUELING STATION WITH AN EMBEDDED SYSTEMS AND RFID TECHNOLOGY INTEGRATED WITH IOT "is a bonafide work carried out by the students AISHWARYA S (10X15EC005), ANU S (10X15E012), DEVIKA L N (10X16EC406), MUNIRABEGAM M NADAF (10X15EC410) in partial fulfilment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VTU during the years 2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The Project report has been approved as it satisfies the academic requirements required for the above said degree.

N. Sriggs (30/30/6)

GUIDE

Dr. Sridhar N

Asst. Professor

Dept. of ECE

HOD

Dr. MANJU DEVI

Professor & HOD of East Chagineering
The Oxford College of Engineering
Dept Of ECE
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PRINCIPAL

Dr. R.V. PRAVEENA GOWDA

The Oxford College Of Engineering
Dr. R.V. PRAVEENA GOWDA
Bengalurus AL

The Oxford College of Engineering Bommanahalli, Hosur Road

Signature with Date 0 068.

Name of Examiner

2 Dr. Sinkhart Kulken

BOMMANAHALLI, HOSUR ROAD, BENGALURU - 560 068

(Affiliated to VTU and Approved by AICTE)

Department of Electronics and Communication Engineering



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Dr. Sridhar N

Asst. Professor

Name of Examiner

Dept. of ECE

Professor & HOD of E&C.Eng.

Borgmanapent, StiffsSibre-560 068.

The Oxforngalurus of Engineering Bommanahalii, Hosur Road Bengaluru-560 088.

Signature with Date

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

Department of Electronics and Communication Engineering



## **CERTIFICATE**

Certified that the Project entitled "HEALTH MONITORING SYSTEM" Carried out by NAYANA (10X15EC058), S SPOORTHI(10X15EC080), SOWNDARYA B (10X15EC094), TEJASHWINI N (10X15EC101), bonafide students of THE OXFORD COLLEGE OF ENGINEERING, Bangalore in partial fulfillment for the award of the Degree of BACHELOR OF ENGINEERING in ELECRONICS AND COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAVI during the academic year 2018-2019. The Project report has been approved as it satisfies the academic requirements in respect of Project prescribed for the said degree.

GUIDE

Dr. SRIDHAR N

Professor & HOD of E&C Engineering
The Oxford College of Engineering

Asst.prof. Dept. of ECE Borrow and Head of Dept. of ECEs

Dr.R.V.PRAVEENA GOWDA

Dr. R.V. PRAVEENA GOWDA
Head of Institution

The Oxford College of Engineering BommanaFQCP-losur Road Bengaluru-560 068.

Signature with Date

Name of Examiner

2. Dr. Subhard Kullan

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

Department of Electronics and Communication Engineering



## **CERTIFICATE**

This is to certify that the Project work entitled "DESIGN AND FABRICATION OF ANIMATRONIC SKULL USING 3D PRINTER" is a bonafide work carried out by YESHWANTH G R (10X15EC109), SNEHA D (10X15EC093), SAHANA M (10X15EC082) and S PRIYA DARSHINI (10X15EC078) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Professor & HODOGE FOR Engineering

Bommananalli, Bangalore - 560 000

Name of the Examiner

1 DR SHASHIDHAR

2 Dr. Prese Ihan

Dr. R.V. PRAVEENA GOWDA

Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

The Oxford College of Engineering Bommanahalli, Hosur Road

Signature with date

P. Sha (12/1

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



## **CERTIFICATE**

This is to certify that the project work entitled "MEDICINE VENDING MACHINE" carried out by Tanveer Ahmed (10X15EC100), Basheer Ahmed (10X16EC404), Shivam(10X15EC088), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAUM during the year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Dr. MANJU DEVI Professor and HOD Dept. of ECE, TOCE

NAME OF EXAMINER

1 DR. SHASHIDHAR

2. Dr. Preet Shaw

Dr. MANJU DEVI Dr. R.V. PRAVERA GOWDA
Professor HOD an HAC Engineering. R.V. PRAVERA GOWDA
PRINCIPAL
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Bommananalli, Bangalore-560,063, ATURE WPPH HOTER Road

P. Ohera 12/6/19.

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

Department of Electronics and Communication Engineering



## CERTIFICATE

This is to certify that the project work entitled "AUTOMATED TOLLPALZA USING RFID WITH THEFT ALERT AND POLLUTION MONITORING" carried out by RAKHESH N (10X15C072), S NITHIN (10X15EC077), SANJAY A (10X15EC084) , bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2018 -2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in Depertment Library. The Project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for Degree.

Ms. CHRISPIN JIJI Professor, Dept. of ECE

Processor & HOD of E&C Engineering Bommananalli, Bangalore-560 068.

R.V. PRAVEENA GOWDA Principal, TOCE

Dr. R.V. PRAVEENA GOWDA PRINCIPAL The Oxford College of Engineerin

Bommanahalli, Hosur Road

Bengaluru-560 086

Name of Examiners

Examiner 1. Faculty Name or Many De

Examiner 2. Faculty Name Dr. Suffach Kulta:

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



### **CERTIFICATE**

This is to certify that the project work entitled "AUTOMOBILE ACCESS AND SECURITY BASED ON MACHINE LEARNING AND SMTP" carried out by Prem Pramod N (10X15EC068), Priyadarshini S (10X16EC413), Sumera Kounain M R (10X16EC419), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAUM during the year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

for the above said degree.	
GUIDE Professor & HOD of \$8	RRINCIPAL
Mr. RICHARD LINCOLN PAUL RAD Oxlord Control of ECE. T Asst Professor, Dept Of ECE. T Bommananalli, Bangal	Princering Dr. R.V. PRAVEENA GOWDA OCE-560 068 The Dr. Rry Gollege Of Engineering A
NAME OF EXAMINER	SIGNATURE College of Engineering
1.87 Hany De'	Benjajugu 560 868.
2 Dr. Subhard Kullai	

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

**Department of Electronics and Communication Engineering** 



## **CERTIFICATE**

This is to certify that the project work entitled "ADVANCED 5 IN 1 MULTI PURPOSE AGRICULTURAL ROBOTIC VEHICLE – AGRIBOT" is a bonafide work carried out by GANESH J BIRADAR (10X15EC031), KASHINATH S KUMBARA (10X15EC040), BASAVARAJ (10X16EC403), SHRISHAIL DALI (10X16EC417) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The Project report has been approved as it satisfies the academic requirements required for the above said degree.

Mrs. SAJITHRA VARUN S Professor Asst. Professor Dept. of ECE, TOCE

Name of the Examiner

1. And Asst. Professor Dept. of ECE, TOCE

Name of the Examiner

1. And Asst. Professor Dept. of ECE, TOCE

Bommananalli, Bangalore - 560 068.

Signature with date

1. And Asst. Professor Dept. of ECE, TOCE

Bommananalli, Bangalore - 560 068.

Signature with date

1. And Asst. Professor Dept. of Ece Engineering Bommananalli, Bangalore - 560 068.

Signature with date

PRINCIPAL

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

Department of Electronics and Communication Engineering



## **CERTIFICATE**

This is to certify that the Project work entitled "Dustless Environment" Using NEAGH Device" is a bonafide work carried out by AAMIR AHMED (10X15EC002), ARAVIND J A (10X15EC015), ISHRATH FARHA (10X15EC039) and MOHAMMED NAFIL T C (10X15EC054) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year FEB-MAY 2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Mrs. Soumya Partukone G Dr. Manju Devi Dr. R.V. Praveena Gowda

Asst. PROFESSOR Professon Hobson & Each Engineering Dr. R.V. PRAVEENA GOWDA

The Oxford College of Engineering
Bommananalli, Bangalore - 560 068. The Oxford College of Engineering
Bommanahalli, Hosur Road
Name of the Examiner Signature with date 68.

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

Department of Electronics and Communication Engineering



## CERTIFICATE

This is to certify that the Project work entitled "Dustless Environment" Using NEAGH Device" is a bonafide work carried out by AAMIR AHMED (10X15EC002), ARAVIND J A (10X15EC015), ISHRATH FARHA (10X15EC039) and MOHAMMED NAFIL T C (10X15EC054) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year FEB-MAY 2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

GUIDE

Asst. PROFESSOR

Dr. Manju Devi

HOD

Professor HOD of E&C Engineering Oxford College of Engineering Tine Oxford College of Engineering

Bommananalli, Bangalore - 560 068,

Name of the Examiner

Dr. R.V. PRAVEENA GOWDA

Bommanahaili, Hosur Road Bengaluru-560 068.

Signature with date

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

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



## **CERTIFICATE**

This is to certify that the project work entitled "AUTOMOBILE ACCESS AND SECURITY BASED ON MACHINE LEARNING AND SMTP" carried out by Prem Pramod N (10X15EC068), Priyadarshini S (10X16EC413), Sumera Kounain M R (10X16EC419), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAUM during the year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

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Mr. RICHARD LINCOLN PAULR And Oxford & Asst Professor, Dept Of ECE Bommenanali	Dio Cao Liginosing
	PRINCIPAL
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2. Dr. history Kulki	
The state of the s	SIGNATURE ford College of Engineering Bommanab Byn 197 088.

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

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ngineering  560 065 Dr. R.V. PRAVEENA GOWDA  The Oxford College Of Engineering A
SIGNATURE IN COMMENT ROAD
Borma Bargating 460 9689
tilly 18/19

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 entitled "QUANTUM DOT CELLULAR AUTOMATA FOR HIGH SPEED COMMUNICATION" Carried out by NAVYASHREE V L(10X15EC057), TANUSHREE B M(10X15EC099), VALLI V(10X15EC103), YASHODHA L(10X15EC108), bonafide students of THE OXFORD COLLEGE OF ENGINEERING, Bangalore in partial fulfillment for the award of the Degree of BACHELOR OF ENGINEERING in ELECRONICS AND COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAVI during the academic year 2018-2019. The Project report has been approved as it satisfies the academic requirements in respect of Project prescribed for the said degree.

GUIDE

Prof. LAYA TOJO

Dept. of ECE

HOD

Professore NHO DIO TIME Engineering DR.R.V.PROVEENA GOWDA

Bommananalli, Bangalore - 560 068

Dr. R. Head po A Institution GO WDA

PRINCIPAL

PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road

Bengaluru-560 068. Signature with Date

Name of Examiner

2. In Sushaul tulkar

BOMMANAHALLI, HOSUR ROAD, BENGALURU - 560 068

(Affiliated to VTU and Approved by AICTE)

Department of Electronics and Communication Engineering



## **CERTIFICATE**

This is to certify that the Project work entitled "AUTOMATION OF FUELING STATION WITH AN EMBEDDED SYSTEMS AND RFID TECHNOLOGY INTEGRATED WITH IOT "is a bonafide work carried out by the students AISHWARYA S (10X15EC005), ANU S (10X15E012), DEVIKA L N (10X16EC406), MUNIRABEGAM M NADAF (10X15EC410) in partial fulfilment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VTU during the years 2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The Project report has been approved as it satisfies the academic requirements required for the above said degree.

GUIDE

Dr. Sridhar N

Asst. Professor

Dept. of ECE

HOD

Professor & HOD of E&C Engineering
The Oxford College of Engineering

BommandAett, Barleslere - 560 068.

PRINCIPAL

Dr. R.V. PRAVEENA GOWDA
Dr. R.V. PRAVEENA GOWDA
The Oxford Gollege Of Engineering

The Oxford Bengaluru Engineering Bommanaham, Hosur Road Bengaluru-560 068.

Signature with Date

Name of Examiner

2 Dr Jushart Ruthi

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

Department of Electronics and Communication Engineering



## **CERTIFICATE**

This is to certify that the project work entitled "VISUAL INSPECTION AND CRACK DETECTION OF RAILWAY TRACKS" is a bonafide work carried out by Ms. AMRUTHA K (10X16EC400), Ms. DEEKSHITHA V (10X16EC026), Mr. MURALI M (10X15EC056) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Mrs. Laya Tojo Asst. Professor

Department of ECE, TOCE ROMM FECE, TOCE

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Dr. R.V. PRAVEENA GOWDA

PRINCIPA

Dr. Principal, TOCE

BENA GOWDA PRINCIPAL

The Oxford College of Engineering Bommanehalli, Hosur Road Bengaluru-560

Name of the Examiners

1. Dr. Preta Shara

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



#### **CERTIFICATE**

This is to certify that the Project work entitled "Automated Pencil Sketch Using Image Processing" carried out by NIKHIL B M(10X15EC060), PUNITH POOVAIAH K P (10X15EC070), SANTHOSH KUMAR B R(10X15EC085), SRINIVAS B V (10X15EC096), bonafide students of THE OXFORD COLLEGE OF ENGINEERING, Bengaluru in partial fulfillment for the award of the Degree of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Mrs. CHRISPIN JIJI
Assistant Professor,
Dept. of ECE, TOCE

Dr. MANJU DEVI Dr. Professop & HQD ph F& Ci Engineering
The Oxford College of Engineering
Bommananalli, Bangalore - 560 068

Dr. R.V.PRAVEENA GOWDA

PRINCIPAL

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

NAME OF THE EXAMINER

2.) Dr. Subrack Kulkan

SIGNATURE WITH DATE

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



#### **CERTIFICATE**

This is to certify that the project work entitled "AUTOMOBILE ACCESS AND SECURITY BASED ON MACHINE LEARNING AND SMTP" carried out by Prem Pramod N (10X15EC068), Priyadarshini S (10X16EC413), Sumera Kounain M R (10X16EC419), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAUM during the year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

GUIDE Professor & HO	Pof E&C Engineering PRINCIPAL
Mr. RICHARD LINCOLN PAULRAJE OBIOMAS Asst Professor, Dept Of ECE Bommanariani NAME OF EXAMINER	EBANGADUE-560 068 ie Oxford College Of Engineering V DA
2. Dr. Arbbark Kulki	Bommanahau Hosur Road Bengalun 680 css.

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

Department of Electronics and Communication Engineering



### CERTIFICATE

This is to certify that the Project work entitled "WATER CONSUMPTION, QUALITY MONITORING AND NOTIFICATION SYSTEM USING ARDUINO BASED GSM SYSTEM" is a bonafide work carried out by VIJAYALAKSHMI M (10X15EC047), RAMYA S (10X15EC079) and MEGHANA HM (10X16EC409) in partial fulfillment for the award of BACHELOR OF ENGINEERING ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Ms. ARUNA J Prof. Dept. of ECE

Dr. R.V. PRA

Professor & HOD of Eac Engineering Dr. R.V. PRAVEENA GOWDA The Oxford College of Engineering

Bommananalli, Bangalore-560 668. The Oxford College of Engineering

Bommanahalli, Hosur Road Bengaluru-560 068

Signature with Date

Name of Examiner

2. Dr. Prus C.

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

Department of Electronics and Communication Engineering



#### CERTIFICATE

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Ms. ARUNA J Prof. Dept. of ECE

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

Name of Examiner

1. DR SHOSHIDHOR 2. Dr. Preela Shan

EENA GOWDA PRINCIPAL

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

Signature with Date

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

Department of Electronics and Communication Engineering



#### CERTIFICATE

This is to certify that the project work entitled "AUTOMATED TOLLPALZA USING RFID WITH THEFT ALERT AND POLLUTION MONITORING" carried out by RAKHESH N (10X15C072), S NITHIN (10X15EC077), SANJAY A (10X15EC084) , bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS under VISVESVARAYA AND COMMUNICATION ENGINEERING TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2018 -2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in Depertment Library. The Project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for Degree.

Ms. CHRISPIN JIJI Professor, Dept. of ECE

OF BECENGINE R.V. PRAVEENA GOWDA The AND OF College Poungineering Principal, TOCE

Boromananalli, Bangalore-560 068. Dr. R.V. PRAVEENA GOWDA PRINCIPAL

The Oxford College of Engineering Bommanahum, Hosur Road Bengelung-560 068.

Name of Examiners

Examiner 1. Faculty Name or Man

Examiner 2. Faculty Name Dr. Subback trulla.

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

**Department of Electronics and Communication Engineering** 



#### CERTIFICATE

This is to certify that the project work entitled "ADVANCED 5 IN 1 MULTI PURPOSE AGRICULTURAL ROBOTIC VEHICLE - AGRIBOT" is a bonafide work carried out by GANESH J BIRADAR (10X15EC031), KASHINATH S KUMBARA (10X15EC040), BASAVARAJ (10X16EC403), SHRISHAIL DALI (10X16EC417) in partial fulfillment for the award of BACHELOR OF ENGINEERING ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The Project report has been approved as it satisfies the academic requirements required for the above said degree.

Dr. MANIU DEVI SAJITHRA VARUN

Dr. R.V. PRAVEENA GOWDA

Asst. Professor Dept. of ECE, TOCE Professor Bett Old bEESC Engineering Principal, TOCE The Oxford College of Engineering

DEBENGALUTA VEENA GOW DA

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

Signature with date

Name of the Examiner

1. Prilled De

BOMMANAHALLI, HOSUR ROAD, BENGALURU - 560 068

(Affiliated to VTU and Approved by AICTE)

**Department of Electronics and Communication Engineering** 



#### **CERTIFICATE**

This is to certify that the Project work entitled "INNOVATIVE SHOPPING CART WITH ARTIFICIAL INTELLIGENCE FOR FAST TRACK BILLING" is a bonafide work carried out by DEEPA P (10X15EC027), DIKSHITHA K (10X15EC029), KAVITHA K (10X15EC041), LAKKIREDDY SRAVANI (10X15EC045) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mr. JAYARAJ N

Dr. MANJU DEVI

HOD

Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

Assoc. Professor,

Professor and HOD

The Oxford College of Engineering Dr. R.V. PRAVEENA GOWDA

Dept. of ECE

Profespape HORCE E&C Engineering
The Oxford College of Engineering

The Oxford College of Engineering Bommanahalli, Hosur Road

BengaturuCIPAL

Bommananalli, Bangalere-560 068.

Name of the Examiner

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uh/Kullcai

Signature with Date

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



### **CERTIFICATE**

This is to certify that the project work entitled "MEDICINE VENDING MACHINE" carried out by Tanveer Ahmed (10X15EC100), Basheer Ahmed (10X16EC404), Shivam(10X15EC088), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAUM during the year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Dr. MANIU DEVI Professor and HOD Dept. of ECE, TOCE

Dr. MANIO DEVI Professor & HOD of E&D Engineering he Oxford College Octors The Orient Coffee of Engineering

DF. R.V. PRAVEENA GOWDA Bommanahalli, Hosur Road Bengaluru-560 068.

Rommananalli, Bangalos

SIGNATURE WITH DATE

NAME OF EXAMINER

1. Dr. SHASHIDHAR 2. Dr. Prest Sha

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

Department of Electronics and Communication Engineering



#### CERTIFICATE

This is to certify that the project work entitled "ADVANCED MILITARY SPYING AND BOMB DISPOSAL ROBOT" is a bonafide work carried out by SHILPA G (10X15EC086), SINDHU M (10X15EC091), VARSHITHA H (10X15EC104), PRATHIMA M K (10X16EC412 ) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

GUIDE Engineering Mrs. S SAJITHRA VARUNTOLESSON SANTOLE

THE OXIDIO CARREST OF THE PROPERTY OF THE OXIDIO CARREST OF THE PROPERTY OF TH

Professor, Dept. of ECE,

Bemman debt Bangalore - 560 068 Dr. R.V. PRAVEENA GOWDA PRINCIPAL

TOCE

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

Name of the Examiners

TOCE

Signature with Date

1. Dr. Preets Chara

2. DR. SHASHIDHAR

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

Department of Electronics and Communication Engineering



#### **CERTIFICATE**

This is to certify that the project work entitled "MULTIPLE STEPS AUTHENTICATION BASED SAFEGUARD UNIT FOR FINANCIAL TRANSACTION" is a bonafide work carried out by Ms. ANUSHA S (10X15EC014), Ms. HARSHITHA U (10X15EC037), Mr. MAHESH KUMAR V (10X15EC048) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions-indicated for internal assessment have been incorporated in the report accordingly. The Project report has been approved as it satisfies the academic requirements required for the above said degree.

Mr. BHARGAV RAMA GOWessons Many Exc Engineering
Asst. Professor
Dept. of ECE

The Oxford College of Engineering
Name of the Examiner

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ROMBINATERILL HOSER ROAD BENGALURU - NO DIS (Affiliated to NTC and Approved by AKTE)

Degartment of Electronics and Communication Engineering



### CERTIFICATE

This is to certify that the Project work entitled "WATER CONSUMPTION, QUALITY MONITORING AND NOTIFICATION SYSTEM USING ARDUNO BASED GSM SYSTEM" is a bonafide work carried out by VIJAYALAKSHMI M (DOXISECRAT), RAMYA S (DOXISECRAS) and MEGHANA HM (DOXISECARS) in partial fulfillment for the award of BACHELOR OF ENGINEERING ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAVA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019, it is certified that all corrections suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Prof. Dept. of ECE

Professor & HOO of EAC Engineering Time Oxford College of Engineering Bergmananalli, Bangalore-560 068.

Dr. R.V. PR PRINCIPAL The Oxford Oplinge of Engineer SALING-560 068

Signature with Date

Name of Examiner

2 Dr. Poset Sha

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

Department of Electronics and Communication Engineering



#### CERTIFICATE

Certified that the Project entitled "OPTO MECHANICAL SYSTEMS FOR PRESSOR SENSOR" Carried out by CHAITRA K (10X16EC405), NIVEDITA C (10X15EC021), SHRINIDHI BHAT (10X15EC089), S UDDANESHWARA (10X15EC081), bonafide students of THE OXFORD COLLEGE OF ENGINEERING, Bangalore in partial fulfillment for the award of the Degree of BACHELOR OF ENGINEERING in ELECRONICS AND COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAVI during the academic year 2018-2019. The Project report has been approved as it satisfies the academic requirements in respect of Project prescribed for the said degree.

P. Ohana real	PRINCIPAL
Professor & HOD of E&C Engineering Prof. Dept. of ECE The Oxford College of Engineering	PRINCIPAL The OxPrincipal, TOCEEngineering Bommanahalii, Hosur Road
Name of ExaminePommananalli, Bangalore - 560 068.	Signisture with Date
DR SHASHIDHAR	Marty 13/6

BOMMANAHALLI, HOSUR ROAD, BENGALURU - 560 068

(Affiliated to VTU and Approved by AICTE)

Department of Electronics and Communication Engineering



#### **CERTIFICATE**

This is to certify that the Project work entitled "AUTOMATION OF FUELING STATION WITH AN EMBEDDED SYSTEMS AND RFID TECHNOLOGY INTEGRATED WITH IOT "is a bonafide work carried out by the students AISHWARYA S (10X15EC005), ANU S (10X15E012), DEVIKA L N (10X16EC406), MUNIRABEGAM M NADAF (10X15EC410) in partial fulfilment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VTU during the years 2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The Project report has been approved as it satisfies the academic requirements required for the above said degree.

GUIDE

Dr. Sridhar N

Asst. Professor

Dept. of ECE

HOD

Professor & HOD of E&C Engineering
The Oxford College of Engineering
Bommabanali DBangalore - 560 068.

PRINCIPAL

Dr. R.V. PRAVEENA GOWDA

The Oxford College Of Engineering Dr. R.V. PRAVEENA GOWDA Bengalurupal

The Oxford College of Engineering Bommanahalli, Hosur Road

Signature with Date 50 058.

Name of Examiner

2 Dr. Suthach Kullan

BOMMANAHALLI, HOSUR ROAD, BENGALURU - 560 068

(Affiliated to VTU and Approved by AICTE)

Department of Electronics and Communication Engineering



#### CERTIFICATE

Certified that the project work entitled "DATA TRANSMISSION USING LIFI" carried out by GOWTHAM M (10X15EC034) , HAROON KHURSHEED (10X15EC035), HEMANTH KUMAR S (10X15EC038), GUHAN M S (10X15EC110) bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electronics And Communication Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Ms. ARUNA J

Asst. Professor. Dept. of ECE

&C Engineering Professor The Oxford College of Engineering

Bommananalli, Bangalore - 560 068.

Dr. R.V. PRAVEENA GOWDA

Dr. R. WOCE, VEENA GOWDA

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

Name of the Examiners

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

Department of Electronics and Communication Engineering



### CERTIFICATE

This is to certify that the Project work entitled "Automatic Detection of Potholes" is a bonafide work carried out by Ms. Akshatha P (10X15EC007), Ms. Chaitra Paul (10X15EC023) and Ms. Lakshmi Suresh (10X15EC046), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION TECHNOLOGICAL UNIVERSITY. VISVESVARAYA under **ENGINEERING** academic year 2018-2019. It is certified that all BELAGAVI during the corrections/suggestions indicated for Internal Assessment have been incorporated in the report accordingly. The Project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Degree.

Rich of Cimolar Pauls / 10/16/19

Dr. MANJU DEVI

Mr. RICHARD LINCOLN

PAULRAJ Asst. Professor, Dept of ECE, TOCE. Bangalore

Professor & HOD of F&C Engineering The Oxford Gollege of Engineering Bommananalli, Bangalore-560 068.

Name of the Examiners

Examiner 1.20 Hart

Examiner 21) x. Subbach. Kulkaru

PRINCIPAL

Dr. R.V. PRAVEENA GOWDA

Dr. R.V. PRAVEENA GOWDA PRINCIPAL

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

Signature with Date

Scanned with CamScanner

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

Department of Electronics and Communication Engineering



## **CERTIFICATE**

This is to certify that the Project work entitled "Automatic Detection of Potholes" is a bonafide work carried out by Ms. Akshatha P (10X15EC007), Ms. Chaitra Paul (10X15EC023) and Ms. Lakshmi Suresh (10X15EC046), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING\* under VISVESVARAYA TECHNOLOGICAL UNIVERSITY. BELAGAVI during the academic year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report accordingly. The Project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Degree.

Rich of Under But 1/10/1/19

Mr. RICHARD LINCOLN

Dr. MANJU DEVI

Dr. R.V. PRAVEENA GOWDA

PAULRAJ Asst. Professor. Dept of ECE,

Professor & HOD of E&C Engineering The Oxford Covere of Engineering

D. TOCE Bangalore GOWDA PRINCIPAL

TOCE, Bangalore

Bemmananalli, Bangalore-560 068.

The Oxford College of Engineering Bommanahalli, Hosur Road

Name of the Examiners

Examiner 2. January Lulter

Signature with Date

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



#### CERTIFICATE

This is to certify that the Project work entitled "Automated Pencil Sketch Using Image Processing" carried out by NIKHIL B M(IOX15EC060), PUNITH POOVAIAH K P (IOX15EC070). SANTHOSH KUMAR B R(IOX15EC085), SRINIVAS B V (IOX15EC096). bonafide students of THE OXFORD COLLEGE OF ENGINEERING, Bengaluru in partial fulfillment for the award of the Degree of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM during the academic year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Mrs. CHRISPIN JIJI
Assistant Professor,
Dept. of ECE, TOCE

Professor Golden of Engineering
Bommananalli, Bangalore - 560 068

or, R.V.PRAVEENA GOWDA

Principal, TOCE

Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

The Oxford College of Engineering Bommanahalli, Hosur Road

NAME OF THE EXAMINER

1) of Many

Subboats Kulken

SIGNATURE WITH BATE 068.

- Jublitatiq

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

Department of Electronics and Communication Engineering



#### CERTIFICATE

Certified that the Project entitled "HEALTH MONITORING SYSTEM" Carried out by NAYANA (10X15EC058), S SPOORTHI(10X15EC080), SOWNDARYA (10X15EC094), TEJASHWINI N (10X15EC101) . bonafide students of THE OXFORD COLLEGE OF ENGINEERING, Bangalore in partial fulfillment for the award of the BACHELOR OF ENGINEERING in ELECRONICS COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAVI during the academic year 2018-2019. The Project report has been approved as it satisfies the academic requirements in respect of Project prescribed for the said degree.

GUIDE

Dr. SRIDHAR N

Professor & NODINE PRO Engineering

Asst.prof. Dept. of ECE Bonfillananalli, Bangalore - 560 068.

The Oxflead of Institution gineering BETOCE SON OBB

Name of Examiner

Signature with Date

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

Department of Electronics and Communication Engineering



## **CERTIFICATE**

This is to certify that the project work entitled "ADVANCED MILITARY SPYING AND BOMB DISPOSAL ROBOT" is a bonafide work carried out by (1OX15EC086), SINDHU M (1OX15EC091), VARSHITHA H SHILPA G (10X15EC104), PRATHIMA M K (10X16EC412 ) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

GUIDE Engineering

Mrs. S SAJITHRA VARUN rolesson MANIO DE The Oxford College 10 D. Engineering. Bommana Rank, Bangalore - 560 068. haineerider. R.V. PRAVEENA GOWDA

Professor, Dept. of ECE, TOCE

Principal, TOCE Dr. R.V. PRAVEENA GOWDA PRINCIPAL

The Oxford College Collegering Road Bommanaha

Name of the Examiners

1. Dr. Prof. Share

Signature with Date

iii

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

Department of Electronics and Communication Engineering



# CERTIFICATE

This is to certify that the project work entitled "VISUAL INSPECTION AND CRACK DETECTION OF RAILWAY TRACKS" is a bonafide work carried out by Ms. AMRUTHA K (10X16EC400), Ms. DEEKSHITHA V (10X16EC026), Mr. MURALI M (10X15EC056) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

GUIDE

Mrs. Laya Tojo

Asst. Professor He Department of ECE, TOCE

Dr. MANAS DE No. 560 068.

Dr. MANNE DE TENE 'S'
Head of the Department
's of the Control of

PRINCIPAL

Dr. R.V. PRAVEENA GOWDA

Dr. RPrincipal TOCE GOWDA

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

Signature with Date

Madey 111/2

P. Shang Mylde

Name of the Examiners

1. DR. SHASHIDHAR

2. Dr. Prest Show

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Department of Electronics and Communication Engineering



#### **CERTIFICATE**

This is to certify that the Project work entitled "WATER CONSUMPTION, QUALITY MONITORING AND NOTIFICATION SYSTEM USING ARDUINO BASED GSM SYSTEM" is a bonafide work carried out by VIJAYALAKSHMI M (10X15EC047), RAMYA S (10X15EC079) and MEGHANA HM (10X16EC409) in partial fulfillment for the award of BACHELOR OF ENGINEERING ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements required for the above said degree.

Ms. ARUNA J Prof. Dept. of ECE

The Oxford College of Engineering Bommananalli, Bangalore - 568 068.

Engineering R.V. PRWVEEN GOWDA Principal, TOCE Dr. R.V. PRAVEENA GOWD. PRINCIPAL

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

Signature with Date

Name of Examiner

2. Dr. Prest Char

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

Department of Electronics and Communication Engineering



# CERTIFICATE

This is to certify that the Project work entitled "INNOVATIVE SHOPPING CART WITH ARTIFICIAL INTELLIGENCE FOR FAST TRACK BILLING" is a bonafide work carried out by DEEPA P (10X15EC027), DIKSHITHA K (10X15EC029), KAVITHA K (10X15EC041), LAKKIREDDY SRAVANI (10X15EC045) in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING under VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report accordingly. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mr. JAYARAJ N

Assoc. Professor,

Dept. of ECE

Dr. MANJU DEVI

Professor and HOD

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

The Oxford College of Engineering

Name of the Examine Bommananalli, Bangalere - 560 068.

Dr. R.V. PRAVEENA GOWDA

The Oxford College of Engineering Dr. R.V. PRAVEENA GOWDA

The Oxford Callage of Engineering Hosur Road

Signature with Date

HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068

(Affiliated to VTU and approved by AICTE Accredited by NAAC and NBA)



#### CERTIFICATE

This is to certify that the following students, AKSHAYA K 10X15EE003, BASAVARAJ S B 10X15EE014, CHANDRU C K 10X15EE020, KARISHMA V 10X15EE034 Bonafide students of The Oxford College Of Engineering, has completed project work entitled "POLE CLIMBING ROBOT FOR FAULT DETECTION" impartial fulfilment in the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect to seminar work prescribed for the said degree.

The Oxform Goldenge sof Engg. Bommanahalli, Hosur Road Bangalore-560 068

Dr. Bharath V S

Signature of the Principal

Dr. R V Praveena Gowda

Dr. R.V. PRAVEENA GOWDA PRINCIPAL

The Oxford College of Engineering Bommanahalli, Hosur Road

Name of Examiners:

1. Dr. Bharath. V. S. 2. Ruma Sinha

Signature with date

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

Department Electrical & Electronics of Engineering



#### **CERTIFICATE**

Certified that the Project work entitled "Design and Implementation of Smart Bin Management System" carried out by Aishwaraya P (10X15EE001), Chandrababu T N (10X16EE403), Hemanth R (10X15EE030), K S Supritha (10X15EE033), a bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of degree of Bachelor of Engineering in Electrical & Electronics Engineering of Visvesvaraya Technological University, Belgaum during the academic year 2018-19. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Project work has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

N. Jupe

Signature of the Guide Mr. JAYAKUMAR N

Signature of the HOD

Professor & RATH EEE

The Oxford College of Engg.

Bommanahalli, Hosur Road

Bangalore-560 068

Show Eulb.

Name of the Examiners:

1. Luma Sinha

2. Dr. Bharath, V.S.

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

Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

The Oxford College of Engineering Bommalianalli, Hosur Road

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2018 - 2019

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### **CERTIFICATE**

This is to certify that the project work entitled "DESIGN AND IMPLEMENTATION TRANSFORMERLESS SINGLE STAGE SINGLE SWITCH HIGH STEPDOWN CONVERTER" is a bonafide work carried out by ASHWINI N S bearing USN 10X15EE012, DIVYASHRI S bearing USN 10X15EE025, MOUNIKA K R bearing USN 10X15EE047, ANIL KUMAR REDDY T bearing USN 10X15EE096in partial fulfilment of project workin 8th semester, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year 2018-2019. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Mr.Muniyappa Associate Professor

Dept. of EEE, TOCE

**BHARATH** 

The Oxford College of £ Bommanahalli, Hosur Road Bangalore-560 068

Dr R V PRAVEENA GOWDA,

Principal, TOCE Dr. R.V. PRAVEENA GOWDA PRINCIPAL

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

Signature with date

Name of the Examiners

Ruma Sonha Do Bhavath. V.s.

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

Department of Electrical and Electronics Engineering



This is to certify that the project work entitled "IMPLEMENTATION OF SMART ENERGY METER FOR INDUSTRIAL APPLICATION" is a bonafide work carried out by ARPITHA P A (10X15EE010), KEERTHANA V (10X15EE037), MEGHANA (10X15EE042), NANDINI K C (10X15EE050) in partial fulfilment of project in 8th semester, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year 2018-2019. It is certified that all corrections and suggestions indicated for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Ms. Deepa R **Assistant Professor** Dept. of EEE

Dr. R V Praveen Gowda **Principal** 

PRINCIPAL

The Oxford College of Engineering Bommanahalli, Hosur Road

Signature with Date:

Name of the Examiners:

1.

Ruma Sinha Dr. Bharath. V.J.

HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068

(Affiliated to VTU and approved by AICTE Accredited by NAAC and NBA)



#### <u>CERTIFICATE</u>

This is to certify that the following students, AMRUTHA P S (10X15EE006), ANUSHA S BASARI (10X15EE007), DEEPA R (10X15EE023), NAMITA R ANGADI (10X15EE049) bonafide students of The Oxford College Of Engineering, has completed project work entitled "IOT BASED INDUSTRIAL PROTECTION USING ARDUINO" impartial fulfilment in the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect to seminar work prescribed

for the said degree.

The guide Signature's

Mrs. K. VIJI

Signature of the Principal

Profes Bhagath Vas EEDr. RV Praveena dowda

The Oxford College of Engg.r. R.V. PRAVEENA GOWDA

PRINCIPAL

Bommanahalli, Hosur Road The Oxford College of Engineering

Bangalore-560 068

Bommanahalli, Hosur Road

Name of Examiners:

1. Ruma Sinha 2. Dr. Bharott. VI.

HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068
(Affiliated to VTU and approved by AICTE Accredited by NAAC and NBA)
Department of Electrical and Electronics Engineering



# **CERTIFICATE**

This is to certify that the project work entitled "AUTOMATIC TRAIN BRAKING SYSTEM" has been carried out by "DEEPTI SHREE S (10X15EE024), GEETHASHREE K A (10X15EE027), HARSHITHA S (10X15EE029), KAVYA B (10X15EE036)" bonafide students of The Oxford College Of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019.

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

Mrs. Sumitha T L

Assistant Professor Dept. of EEE, TOCE

Dr. RV Praveena Gowda
Professor & Head EEE

The HODGE E Dept TOCE TO Principal, TOCE OWDA

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

Name of the Examiners:

1. Dr. Bharathives.

3hun 211/6.

Bengaluru 550 Date:

He 11/6/19

HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068

(Affiliated to VTU and approved by AICTE Accredited by NAAC and NBA)



#### **CERTIFICATE**

This is to certify that the following students, AMARNATH R (10X15EE051), BASIT ALI KHAN (10X15EE015), NANDISH B K (10X15EE051), DHANANJAYA S P (10X14EE027) bonafide students of The Oxford College Of Engineering, has completed project work entitled "SOLAR-WIND-SOUND **BASED HYBRID POWER** GENERATION" impartial fulfilment in the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect to seminar work prescribed for the said degree.

Signature of the guide

Mrs. Manjula. C

Prosignature of HODI EEE Signature of the Principal

The Oxford Schlagan of Engg. R. V. Praveena Gowda Bommanahalli, Hosur Road Dr. R.V. PRAVEENA GOWDA.

Bangalore-560 068

PRINCIPAL

The Oxford College of Engineering Bommanahalli, Hosur Road

Signatupe With State 68

Name of Examiners:

1. Ruma Sinha 2. Dr. Bharath. V :S

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

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS **ENGINEERING**



2018 - 2019

#### **CERTIFICATE**

This is to certify that the project entitled "AUTONOMOUS MAZE SOLVING

ROBOT" is a bonafide work carried out by AKSHATA V.M bearing USN 10X15EE002 and ANUSHREE.T bearing USN 10X15EE008 in partial fulfillment of Project in 8th semester, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year 2018-2019. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

**Internal Guide** 

Mrs. SOMESWARI.T

**Assistant Professor** 

Dept. of EEE, TOCE

Dr. R V PRAVEENA GOWDA,

Prof Dept of EEE TOCE THE Oxford College Tocal. Bommanahalli, Hosur Road

Bangalore-560 068

Dr. R.v. PRAVEENA GOWDA PRINCIPAL

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

Name of the Examiners

Ruma Sinha

Signature with date

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 "SPEED CONTROL OF INDUCTION MOTOR FOR PUMP APPLICATION USING SPWM METHOD" has been carried out by "ARUNKUMAR K (10X15EE011), AZEEZ UR RAHMAN (10X15EE013). BINDU R (10X15EE018), CHAITHRA K R (10X15EE019)" Bonafied students of The Oxford College Of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019.

It is certified that all suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

Mrs. Raichel ruby M

Associate Professor Dept. of EEE, TOCE

Professon a die ad let E

he Oxford College of Engg.

Bommananani, Hosur Road

Bangalore-560 068

Ir. R. V. Praveena Gowda

Principal TOCE GOWDA

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

Name of the Examiners:

1. Dr Ashamath. V. S. 2. Ruma Sinha Shuns 211/6/19

Bommanahalli, Hosur main Road, Bengaluru – 560068 Affiliated to VTU and approved by AICTE Accredited by NBA, NAAC & NBA

Department of Electrical and Electronics Engineering



#### **CERTIFICATE**

This is to certify that the Internship report entitled "DESIGN AND IMPLEMENTATION OF EFFICIENT CONTROLLER FOR LOAD BASED MANAGEMENT SYSTEM" submitted by APOORVA BHAT (10X15EE009), LIKHITHA S (10X15EE038),**NAVEENA** (10X16EE412) & SHARATH KUMARA (10X16EE419) has been satisfactorily completed. It is certified that all corrections/suggestions indicated during internal assessment have been incorporated in the report. The internship report has been approved as it is satisfying the academic requirements prescribed by Visvesvaraya technological University, Belgaum.

Internal Guide

Mrs.Nalina Kumari

Assistant Professor

Dept. Of EEE, TOCE

Dr. Bharath V S

HOD

Professor & FEE TOEEE

The Oxford College of Engg. Bommanahalli, Hosur Poad

Bangalore-560 088

Name of the Examiners

1. Luma Sinha

Principal

Dr. R V Praveena Gowda

Dr. R. WHICIPAEENA GOWDA

TOCECIPAL

The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-569 068.

Signature with date

Ple 12/6/19

Bommanahalli, Hosur main Road, Bengaluru – 560068 Affiliated to VTU and approved by AICTE Accredited by NAAC & NBA Department of Electrical and Electronics Engineering



This is to certify that the Project report entitled "DESIGN AND **FAULT UNDERGROUND** CABLE **IMPLEMENTATION** OF DETECTION USING ROBOT" submitted by DARSHAN GOWDA V Y (10X15EE021), GIRISH M K (10X15EE028), JAGANNIVASA K (10X16EE407) & PRAVEEN KUMAR G P (10X16EE417) has been satisfactorily completed. It is certified that all corrections/suggestions indicated during internal assessment have been incorporated in the report. The Project report has been approved as it is satisfying the academic requirements prescribed by Visvesvaraya technological University, Belgaum.

Mr. Muniyappa N

Professor & Head EEE The Oxford College of Engg. Bommanahalli, Hosur Road Bangalore-560 068

of the Principal DDRWPraveena Gowda/DA

PRINCIPAL

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

Name of Examiners:

1. Dr. Bharath. v. s

2. Luma Sinha

Signature with date
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She 17 | 6 | 19

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

Department of Electrical and Electronics Engineering



# **CERTIFICATE**

This is to certify that the project work entitled "SMART BOOK KEEPER" has been carried out by NIDHI N M (10X15EE053), SANJAYA HEGDE (10X15EE077), TEJAS KUMAR G (10X15EE097), VINOD KUMAR K (10X15EE102) bona fide students of The Oxford College Of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019.

It is certified that all suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

Dr. V S BHARATH Internal guide

Professor, EEE

Professon Miles MEE
he Opious Bhildrand Eng.
Bom Hear of Department oad

Bangalore-560 058

Dr. R.V. Praveena Gowda

Principal

PROCE PRAVEENA GOWDA PRINCIPAL

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

Name of the Examiners:

1. Dr. Bharath.v.s.

Signature with Date:

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

Department of Electrical and Electronics Engineering



#### **CERTIFICATE**

This is to certify that the project entitled "DESIGN AND DEVELOPMENT OF FIRE FIGHTING ROBOT USING ARDUINO" has been carried out by PRATHYUSHA G (10X15EE059), SHYAMALA G (10X15EE083), SREE HARINI S (10X15EE084), UMESH V (10X15EE098) bonafide students of The Oxford College Of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-19.

It is certified that all 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 of Bachelor of Engineering degree.

Signature of the Guide

Mr. JAYAKUMAR.N

Dr. BHARATH V.S

Professor & Head EEE

Name of the Examiners:

The Oxford College of Engresignature with Dates: Road Bommanahalli, Hosur Road

Bangalore-560 068

Bengaluru-560 068.

1. Do Rharoth. V.S.

2. Ruma Sinhar

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

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS **ENGINEERING**



2018 - 2019

#### **CERTIFICATE**

This is to certify that the project entitled "DESIGN AND EXPERIMENTAL **INVESTIGATION THERMOELECTRIC** OF **PORATBLE SOLAR** REFRIGERATOR" is a bonafide work carried out by NIHARIKA.R.SHETTY, bearing USN 10X15EE054, ROOPA.S, bearing USN 10X15EE069, S.SUBBASREE, bearing USN 10X15EE072, SRIRAM.M.J. bearing USN 10X15EE087, in partial fulfilment of project in 8th semester, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belgaum for the year 2018-2019. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Mr.N.MUNIYAPPA

Professivar AttivisEEE he Oxford College of Eng Bommanahalli, Hosur Road

DR. R V PRAVEENA GOWDA Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

Signature of Principal

Bangalore-560 068

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

Name of the examiner

Dept. of EEE, TOCE

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

Department of Electrical and Electronics Engineering



#### **CERTIFICATE**

This is to certify that the project work entitled "PV POWERED BOAT USING DC-DC CONVERTER AND INVERTER" has been carried out by POOJA.C (10X15EE055), PRIYANKA.Y.NAIK (10X15EE061), RANJITHA.S (10X15EE067), ROSHINI.D (10X15EE070) bona fide students of The Oxford College Of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019.

It is certified that all suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

Mrs. Sandhya Rai Associate Professor Dept. of EEE

Probests: BHARATHEE
The OHiato Department of the Bombert of the Hosur Road
Bangalore-560 068

Name of the Examiners:

1. Dr. Bharath. V.S. 2. Ruma Strla Dr. R V PRAVEENA GOWDA

Principal R.V. PRAVEE

TOCE The Oxford College of Engineering

Rommanahalli, Hosur Road

Bommanahalli, Hosur Road Signature with Date 60 068.

Jan 212/6

12/6/19

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

Department of Electrical & Electronics Engineering

2018 - 2019



#### **CERTIFICATE**

This is to certify that the Project work entitled "IOT Based Irrigation Monitoring & Controlling system" is a bonafide work carried out by Swathi Rani H, bearing USN 10X15EE092, Swathi P bearing USN 10X15EE093, A.V. Deekshashree bearing USN 10X16EE400, Chandrashekar bearing USN 10X16EE404 in partial fulfillment of Project work in 8th semester, Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year 2018-2019. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The Project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Internal Guide

Mrs Viji.K

**Assistant Professor** 

Dept. of EEE, TOCE

Dept. of EEE, TOCE, EEE
Professor & Head EEE The Oxford College of Engg. Bommanahalli, Hosur Road Bangalore-560 068

incipa Dr R V Praveena Gowda

Principal, TOCE

Dr. R.V. PRAVEENA GOWDA PRINCIPAL

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

Name of the Examiners

Ruma Sinha Dr. Bharath. V.s

Signature with Date

Ble 12/6/19 3hub212/6

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068

(Affiliated to VTU and approved by AICTE Accredited by NAAC and NBA)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS **ENGINEERING** 



2018 - 2019

# **CERTIFICATE**

This is to certify that the project work entitled "POWER QUALITY IMPROVEMENT BY USING STATCOM CONTROL SCHEME IN WIND ENERGY GENERATION INTERFACE TO GRID" is a bonafide work carried out by NAYANA BU bearing USN 10X15EE052, SAUD AHMED KHAN bearing USN 10X15EE078, SHAIKH MOHMAD IBRAHIM bearing USN 10X15EE080, SUNITHA DR bearing USN in partial fulfilment of internship in 8th semester, Bachelor of 10X15EE091 Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year 2018-2019. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements for the award of Bachelor of Engine

Mrs.B DEVI VIGNESHWARI Associate Professor Dept. of EEE,TOCE

Bommanahalli, Hosur Road

Dr R V PRAVEENA GOWDA.

Principal, TOCE

Dr. R.V. PRAVEENA GOWDA PRINCIPAL

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

Signature with date

Dr V S BHARATH

Dept of EEE & TOGE dEEE

The Oxford College of Enga

Bangalore-560 068

Al 12/6/19 Shun 2/2/16

Name of the Examiner

Ruma Sinha Dr. Bharoth.v.s.

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

**Department of Electrical and Electronics Engineering** 



### **CERTIFICATE**

This is to certify that the project work entitled "INTEGRATED RESONANT BOOST CONVERTER FOR PHOTOVOLTAIC APPLICATIONS" has been carried out by SRIDHAR PATIL (10X15EE086), SACHIN AYLI (10X15EE075), SUHAS Y (10X15EE088), MOHAN RAJ R (10X15EE63) bona fide students of The Oxford College Of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019.

It is certified that all suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

Mrs. Manjula C Internal guide Assistant Prof, EEE Dr. V S BHARATH

Head of Department

EFF
Professor & Head EEE

The Oxford College of Engg.
Bommanahalli, Hosur Road
Bangalore-560 068

Dr. R.W. Praveena Gowda

PEINCIPAL PRINCIPAL

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

Name of the Examiners:

1. Ruma Sinha

2. Dr. Bharoth was

Signature with Date:

Shun 2 12/6/19

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

Department of Electrical and Electronics Engineering



This is to certify that the project work entitled "DESIGN AND IMPLEMENTATION OF SOLAR MPPT CONVERTER FOR GRID" has been carried out by AKASH S (10X15EE073), SRIDEVI T T (10X15EE085), SUMANTH S (1OX15EE090), VIJAYALAKSHMI V (10X15EE100) bonafide students of The Oxford College Of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019.

It is certified that all suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

Nishar CiDan Mrs. NISHA C RANI

Associate Professor Dept. of EEE

Name of the Examiners:

Hosur Rent Oxford College of Engineering Bangalore-560 068 Bosignature with Da

1. Dr. Bhar ath. V. S.

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

Department of Electrical and Electronics Engineering



This is to certify that the Project work entitled "VEHICLE ACCIDENT PREVENTION SYSTEM WITH ALCOHOLIC DETECTOR USING G **PREETHAM** A by out been carried IOT" has (10X15EE060),RAFHIK(10X15EE064),MANOJKUMAR H(10X15EE410),PRADEEP . KUMAR(10X15EE416) bonafide student of The Oxford College Of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019.It is certified that all suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Signature of the Guide Mrs.RESNA.S.R Signature of the Hod Signature of the Principal Signature of the Principal Dr. BHARATH V. S. Dr. R. V. PRAVEENA GOWDA The Oxford College of Face Signature with Date:

Name of the Examiners:

Bommanahalli, Hosur Road The Oxford Col Bangalore-560 068 Bommanah

Signattire with Date: pe Oxford College of Engineering Bornmanahalli, Hosur Road Miseogal Bru 560 068.

DC 13/6/19

# The Oxford College of Engineering

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

(Affiliated to VTU and Approved by AICTE Accredited by NAAC and NBA)



### **CERTIFICATE**

This is to certify that the following students,

POOJA J R

(10X15EE057)

SANGEETHA M S

(1OX15EE076)

**SHWETARANI** 

(1OX15EE082)

MALATESH MALABER

(1OX16EE408)

Bonafide students of The Oxford College of Engineering, the project work entitled "SOLDIER HEALTH STATUS & POSITION TRACKING 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 2018-2019. It is certified that all suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

Ms. Deepa.R

The Oxford Callege of Engg. Bommanahalli, Hosur Road Bangalore-560 068

re of Principal

Dr. R.V Práveena Gowua Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

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

Signature with date

**External Viva** 

Name of the Examiners:

1. Dr. Rhavethers.

2 Ruma Sinha

HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068
(Affiliated to VTU and approved by AICTE, Accrediated by NAAC and NBA)
Department of Electrical and Electronics Engineering



# **CERTIFICATE**

This is to certify that the project work entitled "DESGIN AND DEVELOPMENT OF FAULT DETECTION AND PROTECTION SYSTEM FOR A THREE PHASE OVERHEAD TRANSMISSION LINE" has been carried out by "A AFNANULLA (10X14EE001), GOUTHAM G (10X14EE032), UMME HAANI (10X14EE107), ROOHULLA KHAN (10X13EE074)" Bonafide students of The Oxford College Of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019.

It is certified that all suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree of Bachelor of Engineering.

Mrs. B Devl Vighneshwari

Associate Professor Dept. of EEE, TOCE Professor & Head EEE

The Opfert Delle goof Engg.
Bommanahalli, Hosur Road

\_Bangaloe=56600688

Dr. RV Praveena Gowda

Principal, TOCE

Dr. R.V. PRAVEENA GOWDA PRINCIPAL

The Oxford College of Engineering Boilinanahalli, Hosur Road

Bengaluro-560 068.

17/6/19

Name of the Examiners:

1. Dr Bharath. V.S.

2. Ruma Sinha

Bommanahalli, Hosur Road, Bangalore – 560068

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



# **CERTIFICATE**

This is to certify that work entitled "WIRELESS SPEED AND DIRECTION CONTROL OF MULTIPLE DC MOTORS USING RADIO FREQUENCY

TECHNOLOGY" is a bonafied work carried out by WILLIAM G (10X14EE112), MALLIKARJUN POLICE PATIL (10X15EE410), PRATHAP D V (10X13EE066) & HARSHA S (10X15EE405) in partial fulfilment for the award of BACHELOR OF ENGINEERING in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as satisfies the academic requirements in respect of project work prescribed for degree of Bachelor of Engineering.

Asst Prof. Dept of EEE

Professor &

The HOXPORPED ON LINES.

Bommanahalli, Hosur Road Bangalore-560 068

Dr. R.V. Praveena Gowda

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

Name of the Examiners:

1. Dr. Rharah. V.s. 2. Ruma Sinha

Signature with Date:

Stum 21/6/19 De 11/6/19

Bommanahalli, Hosur Road, Bangalore – 560068

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



# **CERTIFICATE**

This is to certify that work entitled "ROBOT CONTROL BY USING HUMAN HAND GESTURES" is a bonafied work carried out by MOHAMMED IBRAHIM (10X15EE412), POWELLS JOHN (10X13EE062), MD UMAR (10X14EE411)& AARON D SHANE (10X14EE003)in partial fulfilment for the award of BACHELOR OF ENGINEERING in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been

approved as satisfies the academic requirements in respect of project work prescribed for degree of

Bachelor of Engineering.

Mrs. Nisha C Rani

Asst Prof, Dept of EEE

Dr. V.S. Bharath

Dr. A.S. Aravind

H.O.D., Dept. of EEE Professor & Head EEE The Oxford College of Engineering

The Oxford College of Engg. Bommanahalli, Hosur Road

Bommanahalli, Hosur Road Bengaluru-560 068.

PRINCIPAL

Bangalore-580 068

Signature with Date:

Name of the Examiners:

1. K, Gophnoth 2. DEEPA-R

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 "Voice Controlled Chair Using Theo - Jansen Mechanism." Is an authentic record of the project work carried out by S. S. Shiva Moorthy (10X15ME067) S. Rahul Athreya (10X15ME068)Guru (10X15ME076) Shiva Nandan.N (10X15ME085) in partial fulfillment for the award of Bachelor of engineering in Mechanical Engineering from Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

Signature of HOD

Signature of Principal

DEPARTMENT OF Prof. Madhu Sudana Reddy GTHE Br. Mahendra M Dhongadi ERING Dr. R. V. Praveena Gowda WDA

TOMMANAMALLI, BANGALORE-560068

The Oxford College of Engineering Bommanahalli, Hosur Road

**Examiners:** 

Signature with date 068.

# Bommanahalli, Hosur Road, Bangalore – 560068

(Affiliated To Visvesvaraya Technological University, Belagavi)

### Department of Mechanical Engineering



#### **CERTIFICATE**

This is to Certified that the Project entitled "CONSTRUCTION OF LIP MOVEMENT CONTROLLED ROBOT" has been carried out by ROHIT R (10X15ME066), SANJAYKANTH N (10X15ME077), SHAIK MUSSADDIQ UR RAHMAN (10X15ME081), PRATHAM B PATIL (10X16ME409) Bonafede students of The Oxford College of Engineering, Bangalore, in partial fulfilment for the award of the degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the year 2015-2019. The Internship Report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said degree.

**GUIDE** 

HOD

Prof. Nagaraja T V

Dr. Mahindra M Dhongadi

Dr. R WPraveena Gowda

PRINCIPAL

Dept. of ME

Professorand HOD MEAD

Principal, TOCE

DEPARTMENT OF MECHANICAL ENGINEERING Dr. R.V. PRAVERNA GOWDA
THE OXFORD COLLEGE OF ENGINEERING PROMOTRAL

BOMMANAHALLE, BANGALORE-560068 The Oxford College of Engineering Bommanahalle, Hosur Road

Bengaluru 350 008.

**Examiners:** 

1. Do Mahondra TI. D

2

Signature with date

13/6/10

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

# Department of Mechanical Engineering



#### CERTIFICATE

This is to certified that the Project work entitled "MICROCONTROLLER BASED AUTOMATIC INTELLIGENT CAR PARKING SYSTEM" is an authentic record of the project work has been carried out by the students NABEEL NASIR (10X15ME055), NISHANTH M (10X15ME058), S NISHANK JADHAV (10X15ME102), BENHANAN THEODORE (10X15ME021), bonafide students of The Oxford College of Engineering, Bangalore, in partial fulfilment for the award of the degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-2019. The Project Report has been approved as it satisfies the academic requirements in respect of Seminar work prescribed for the said degree.

Project Guide

PESSSOR & TILLINGINEERING CONTROL ENGINEERING PRIVE CONTROL ENGINEERING PRIVE Praveena Gowda

Principal, TOCE

BoMechanical Engineering Dr. R.V. PRAVEENA GOWDA

PRINCIPAL The Oxford College of Engineering

Bommanahaili, Hosur Road Bengaluru-560 068.

**External Viva** 

Name of Examiners

Signature with Date

1. De rouhendro. 101. De 2. Cunday petha

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

# Department of Mechanical Engineering



#### CERTIFICATE

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**Project Guide** 

Dr. R. Prave na Gowda

THE CLOSE BOOK BOOK OF DEED OF OF THE OF Principal, TOCE BOMMACIAINICAL Dingingering

The Oxford Counside of Engineering Bommannhalli, Hosur Road

Bengaluru-560 068.

**External Viva** 

Name of Examiners

Dy mahondro. M.D Surolace Cher

Signature with Date

MA GOWDA

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

# DEPARTMENT OF MECHANICAL ENGINEERING



### **CERTIFICATE**

This is to Certify that the project work entitled "AUTOMATIC RAILWAY TRACK CRACK DETECTION SYSTEM USING IR SENSORS" is a bonafied work carried out by MR.SAMMED MAHAVEER PATIL (1015ME074), MR.UMESH M (10X15ME095), **GOPALA** (10X15ME097),**MR.VINAY VEERAPPA PARANGI** MR.VENU (10X15ME100) students of The Oxford College of Engineering in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018 - 2019. 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

Mr. RAVIRAKASH M

Signature of the Principal

DRA M DHONGADINEERIDI. PRAVEENA GOWDA RD COLLEGE OF ENGINEERINGT. R

BOMMANAHALLI, BANGALORE-560068

The Oxford College of Enginee

Bommanahalli, Hosur Road

Name of Examiners:

1. De rocatendro con. D

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 "Voice Controlled Chair Using Theo - Jansen Mechanism." Is an authentic record of the project work carried out by S. S. Shiva Moorthy (10X15ME067) S. Rahul Athreya (10X15ME068) Sanjay.R (10X15ME076) Shiva Nandan.N (10X15ME085) in partial fulfillment for the award of Bachelor of engineering in Mechanical Engineering from Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

Signature of HOD

Prof. Madhu Sudana Reddy G

Dr. Mahendra M Dhongadi THE OXFORD COLLEG BOMMANAMALLI, BANGALORE-560068

Signature of Principal Dr. R.V. PRAV SENA GOWDA

Dr. R.V.Praveena Gowda

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

**Examiners:** 

1) De Mahendra. T.T.D

Signature with date

#### DEPARTMENT OF MECHANICAL ENGINEERING

**BOMMANAHALLI, BENGALURU - 560068** 



#### **CERTIFICATE**

Certified that the Project work entitled "DESIGN AND FABRICATION OF OPEN TOP MOTOR VEHICLE BODY USING 150CC ENGINE FOR MILITARY VEHICLE" is carried out by the following students of Mechanical Engineering in partial fulfilment for the award of BACHELOR OF ENGINEERING in MECHANICAL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAVI during the year 2018-19 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.

MAHAMMADAHUSEN N [10X15ME046]

MANU SHREE D C [10X15ME051]

PRASANNA G S [10X16ME408]

RAJAN [10X16ME410]

Mr.MADHU SUDANA REDDY.G

Associate Professor

Dr.MAHENBRASMIDHONGADI
DEPARTMENTESSHEWHODL ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALIA, BANGALORE-550068

Dr.R.V PRAVEENA GOWDA

Or. R.V. PRAVEENA GOWDA

PRINCIPAL

The Oxford College of Engineering Signature with date

Bommanahalli, Hosur Road

Bengaluru-560 068

Name of the examiner

1. Dr morbudro M.D.

2. Thirty Pray?

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

### Department of Mechanical Engineering



#### CERTIFICATE

This is to certified that the Project work entitled "DESIGN AND FABRICATION OF SEMI-AUTOMATIC CEMENT PLASTERING MACHINE" is an authentic record of the project work has been carried out by the students ABU JAMES (10X15ME003), AMITH PRAKASH (10X15ME010), B. MONISH KRISHNA (10X15ME019), BENSON M.B (10X15ME022), bonafide students of The Oxford College of Engineering, Bangalore, in partial fulfilment for the award of the degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-2019. The Project Report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mr. BACHILK

Guide

Dr. MAHENDRA M DHONGADI

Professor and H.O.D

DEPLOTENTICADA HEAD

DEPARTMER IN COLUMN THE AD DEPARTMENT OF THE OWNER OWNER OF THE OWNER OWNER

=a, 10.6.19

THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, BANGALORE-560068

**External Viva** 

Name of Examiners

1. Dr materaro. Fl. D

2. Lundoererter

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Dr. R.V

TRENCIPAL TOCK Engineering

Bommanahalli, Hosur Road

Bendaluru-560 088.

ngod

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

Department of Mechanical Engineering



#### **CERTIFICATE**

This is to certified that the Project work entitled "DESIGN AND FABRICATION OF EFFORT-LESS BULLOCK CART FOR AGRICULTURAL APPLICATIONS" is an authentic record of the project work has been carried out by the students K P DAMODHAR REDDY (10X15ME027),GANESH N (10X15ME033),**KALYAN KUMARA** A(10X15ME042), MANOHAR A P (10X15ME049), bonafide students of The Oxford College of Engineering, Bangalore, in partial fulfilment for the award of the degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-2019. The Project Report has been approved as it satisfies the academic requirements in respect of Seminar work prescribed for the said degree

Mr Rangu P

**Assistant Professor Project Guide** 

Dr. Mahendra M Dhongadi PROFESSSOR & HEAD

DEPARTMEND DEPARTMENT ENGINEERING

THE OXFORD COLLEGE OF ENGINEERINGDE, R.V. PRAVEENA GOWDA BOMMANAHALLE, BANGALORE-550068 PRINCIPAL

**External Viva** 

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

Dr. R.V Praveena Gowda

Principal, TOCE

Name of Examiners

maken dra. M. D

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

# Department of Mechanical Engineering



#### **CERTIFICATE**

This is to certified that the Project work entitled "DESIGN AND FABRICATION OF REMOTE-CONTROLLED MACHINE FOR MULTI PURPOSE APPLICATIONS" is an authentic record of the project work has been carried out by the students ANIL KUMAR B K (10X15ME013), MD SAMRE ALAM (10X15ME052), ASHYUN THAPA MAGAR (10X15ME104), BIBEK SHARMA (10X15ME105), bonafide students of The Oxford College of Engineering, Bangalore, in partial fulfilment for the award of the degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-2019. The Project Report has been approved as it satisfies the academic requirements in respect of Seminar work prescribed for the said degree.

Prof. T.V. NAGARAJA

**Project Guide** 

Dr. Mahendra M Dhongadi NEERINOr. R.V Praveena Gowda

THrofessor and H.O.D. Dept. 560068 Principal, TOCE

Bot Mechanical Engineering

Dr. R.V. PRAVEENA GOWDA
PRINCIPAL

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

**External Viva** 

Name of Examiners

1. Dr rorohandra. M.D.

2. Simon GEORGE

Signature with Date

Jimes Certi

BOMMANAHALLI, BANGALORE-560068

(Affiliated to Visvesvaraya Technological University, Belagavi)

### DEPARTMENT OF BIOTECHNOLOGY



#### **CERTIFICATE**

This is to certify that the project entitled "Evaluation of Antibacterial, Anti Inflammatory, Antioxidant and Anti Cancer potential of Plant Extract from Spondias pinnata and Pimenta dioica" was submitted by Afiya Kousar (10X15BT003), Gagana B (10X15BT014), Neha H L (10X15BT024) and Punya L Gowda (10X15BT033) in partial fulfilment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi, during the academic year 2018 - 2019. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Name and Signature of Project Guide

Name and Signature of the HOLD, V. Signature of the Principal PRINCIPAL

The Oxford College of Engineering Bomma Signature with dairing Bengature 550 068.

2. By Mayer at - Mayering 1999.

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

# DEPARTMENT OF BIOTECHNOLOGY



#### CERTIFICATE

This is to certify that the project work entitled "EVALUATION OF ANTI BACTERIAL, ANTI INFLAMMATORY AND ANTI CANCER ACTIVITY OF MEDICINAL PLANTS" carried out by AFRIN KHANUM L (10X15BT004), KRUTHIKA S (10X15BT018) and SHREEYA DHAYALAN (10X15BT042), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Biotechnology of the Visvesvaraya Technological University, Belagavi during the academic year 2018 – 2019. It is certified that all corrections indicated during internal assessment have been incorporated in the report and deposited in the department library. The project has been approved as it satisfies the academic requirements in the respect of project work prescribed for the said degree.

Project Br. Head

Dept. of Br. Head

Dept. of Br. Head

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BOMMANAHALLI, BANGALORE-560068

(Affiliated to Visvesvaraya Technological University, Belagavi)

### DEPARTMENT OF BIOTECHNOLOGY



#### CERTIFICATE

This is to certify that the project work entitled "Design of Air Pollution Filter Silk by Synthesis of Nano Green Particles and its Evaluation" carried out by Anupama.G, USN 10X15BT005, Bindushri.V, USN 10X15BT010, Priyanka.R.M, USN 10X15BT032 bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi, during the academic year 2018 – 2019. The phase two project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Internal Guide

Signature of HOTO

Signature of Principal

Mrs. Aswathi Unnikrishnan

Dr.B.K. Manjunatha D MANJUNATHA

Dr. R. V. Praveena Gowda

Professor & Head
Dr. R.V. PRAVEENA GOWDA

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

Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

Bengaluru-560 068.

Bengaluru-560 068.

External Viva

Name of the examiners

Signature with date

1

2. Dr. Ryket Sty

Rys Sylds.

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

#### DEPARTMENT OF BIOTECHNOLOGY



#### CERTIFICATE

Certified that the project work entitled "Studies on purification of chitosan for biomedical applications" carried out by Ms. APOORVA. L (USN 10X15BT006), Ms. POOJA. S (USN 10X15BT028) and Ms. VIDHYA. B. A(USN 10X15BT047), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visvesvaraya Technological University, Belgavi during the year 2018-19. 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. BK MANJUNATHA

Professor Head

Department of Biotechnology

B.K. Manjunatha

External Viva

Name of the examiners

2. Dr. be maignen

Signature with date

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

Dr. R.V. PRAVELNA GOWDA

(Affiliated to Visvesvaraya Technological University, Belgavi)

BOMMANAHALLI, BANGALORE - 560068

#### DEPARTMENT OF BIOTECHNOLOGY



#### CERTIFICATE

Certified that the project work entitled "A study on the effect of inorganic components in by carried out composites for biomedical applications" chitosan Ms.Balikai Prerana Prakash (10X15BT007), Ms.P.V.Vismitha (10X15BT027), Ms. Prava Sharma (10X15BT031), Ms. Shravya Velamala (10X15BT041), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the the BIOTECHNOLOGY Engineering in Bachelor of award of Visvesvaraya Technological University, Belgavi during the year 2018-19. 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.Valarmathy Assistant Professor Dept.of BT Dr.B.K.Manjunatha

Dept. of BT Dr. B.K MANJUNATHA

Professor & Head
Department of Biotechnology
The Oxford College of Engineering
Bengaiuru-560 068.

Dr.R.V.Praveena Gowda Principal TOCE

External Viva

Name of the examiners

1.

2

Signature with date

Bommanahalli, Bangalore-560068

(Affiliated to Visvesvaraya Technological University, Belagavi)

#### DEPARTMENT OF BIOTECHNOLOGY



#### CERTIFICATE

This is to certify that the project work entitled "Machine Learning and Artificial Intelligence Modelling of Biological Indexes in Drug Discovery" carried out by -CHAITHANYA R USN 10X15BT011, DIVYA S USN 10X15BT013, SHEEBA R USN 10X15BT039, TAHMINA ASLAM USN 10X15BT044, bonafide students of THE OXFORD COLLEGE OF ENGINEERING in the partial fulfillment for the award of Bachelor of Engineering in BIOTECHNOLOGY of the Visvesvaraya Technological University, Belagavi during the academic year 2018 - 2019. It is certified that all corrections/suggestions indicated during internal assessment have been approved 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.

Mrs. Arathi Suvatha **Project Guide** 

Dept. of BT

**External Viva** 

Dr. B.K MANJUNATHA

Dept. of B1

Professor & Head Department of Biotechnology The Oxford College of Engineering

Bengaluru-560 068

Name of the Examiners

Signature with date

The Oxford College of Engineering Bommanaballi, Hosur Road Bongaluru-550 068.

Printipal

dna Gowda

AVEENA GOWDA

BOMMANAHALLI, BANGALORE-560068

(Affiliated to Visvesvaraya Technological University, Belagavi)

# DEPARTMENT OF BIOTECHNOLOGY



#### CERTIFICATE

This is to certify that the Project entitled "Breast cancer classification based on principle component analysis and gene expression analysis associated Molecular Biomarkers identification and its therapeutic applications" was carried out by DEEPIKA M (10X15BT012), LAKSHMI K (10X15BT019) and P KAROLINE (10X15BT026), a bonafide student of The Oxford College Of Engineering in partial fulfilment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi, during the academic year 2018–2019. The Project has been approved as it satisfies the academic requirements in respect of Project one prescribed for the said degree.

Name & Signature of the Guide

Professor & right of Department of Biotechnology

Department of Biotechnology

The Oxford College of Engineering

Signature with date

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

Name of the examiners

8 311

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

### DEPARTMENT OF BIOTECHNOLOGY



#### CERTIFICATE

Certified that the project work entitled "DEVELOPMENT OF BIOSPECIMEN COLLECTION AND ROOM TEMPERATURE STORAGE SYSTEM FOR POTENTIAL APPLICATIONS IN GENOMICS" carried out by Ms. KALA SAI SARWANI, USN 10X15BT016 &Ms. H. GEETHA BAI, USN 10X15BT015, a bonafied student of The Oxford College of Engineeringin partial fulfillment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi, during the academic year 2018 - 2019. It is certified that all corrections/suggestion indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mr. Diyakara R **Project Guide** Dept. of BT

External viva

Department of Biotechnology

Dr. R V PraveenaGowda Principal

Droce PRAVEENA GOWDA

PRINCIPAL The Oxford College of Engine The Oxford College of Engineering Bommanahalii, Hosur Road Bengaluru-550 068.

Bengaluru-560 068.

Signature and Date

Name of the examiner

BOMMANAHALLI, BENGALURU-560068

(Affiliated to Visvesvaraya Technological University, Belagavi)

# DEPARTMENT OF BIOTECHNOLOGY



#### **CERTIFICATE**

This is to certify that the project work entitled "IN-VITRO PROPAGATION OF LEUCAS ASPERA" is a bonafied work presented by KAVYA H.R. USN 10X15BT017 in partial fulfillment for the award of Bachelor of Engineering in Biotechnology of Visvesvarya Technological University, Belagavi, during the academic year 2018 – 2019. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Yhuyfaeili Prof. Salma Kausar .M

Project Guide Dept. of BT Dr. B.K Manjunatha

Dept. of BT

r. R.V Praveena Gowda

Principal TOCE PRINCIPAL

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

External Viva

Name of Examiner

1. Dr de magnan 2. Dr Rjude Sryk Signature with date

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

#### DEPARTMENT OF BIOTECHNOLOGY



#### CERTIFICATE

This is to certify that the project work entitled "Portable bioreactor for Ex-situ remediation of PAHs using fungal consortium developed" has been carried out by Manoj S USN 10X15BT022, Nikhil P USN 10X15BT025, Rakshith KS USN 10X15BT036, V Ashwin USN 10X15BT046, bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi during the year 2018-2019. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Dept. of Biotechnology (Dr. B. K. Manjunatha)

HOD Dept. of Biotechnology Dr. B.K MANJUNATHA

Professor & Head

Department of Bloteshnoisey The Oxford College of Englishering Bengaluru-560 068.

Name of the examiners

External Viva

1. Dr. Ragendra Singh 2. Dr. Me, Mayerrake

Principal POCE

(Dr. R. V. Praveena Gowda) Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

The Oxford College of Engineering Bommanahalli, Hosur Road Signature With date 0 068.

May mio

BOMMANAHALLI, BANGALORE-560068

(Affiliated to Visvesvaraya Technological University, Belagavi)

#### DEPARTMENT OF BIOTECHNOLOGY



#### **CERTIFICATE**

This is to certify that the seminar work entitled "LUNG CANCER CLASSIFICATION AND IDENTIFICATION OF NOVEL BIOMARKERS AND THEIR ASSOCIATED ROLES IN THERAPEUTIC APPLICATIONS", was presented by POOJA V (10X15BT029) and VIDYA SHREE D (10X15BT048) in partial fulfilment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi, during the academic year 2018 – 2019. The seminar report has been approved as it satisfies the academic requirements in respect of seminar work prescribed for the said degree.

Ms. Arati Suvata

**Project Guide** 

Dept. of BT

Dr. B. K. Manjusath MAN TNA 211

The Oxford College of Engineering
Bengaluru-560 068.

Dr. R. V. Praveena Gowda

Dr. R.Rrineipal BENA GOWDA

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

Signature with Date

External Viva

Name of the examiners

1. Orise mon

2. Dr. Rejad Syle

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

#### DEPARTMENT OF BIOTECHNOLOGY



#### **CERTIFICATE**

This is to certify that the project work entitled "Development of Bionanocomposites for Toxic Dye Removal" was presented by Prathiksha M K, USN 10X15BT030 and Saceda Fiza Simran, USN 10X15BT038 in partial fulfilment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi, during the academic year 2018 – 2019. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Dr. Gangadhar Gouripur

Project Guide

Dept. of Biotechnology

Dr. B K Manjunatha HOD

Dept. of Biotechnology

Dr. B.K MANJUNATHA
Professor & Head

Department of Biotechnology

The Oxford College of Engineering

Bengaluru-560 068.

Dr. R V Praveena Gowda

Principal

The Oxford College of Engineering

Dr. R.V. PRAVEENA GO

The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-580 068.

Signature with date

Name of the examiners

4

BOMMANAHALLI, BANGALORE-560068

(Affiliated to Visvesvaraya Technological University, Belagavi)

#### DEPARTMENT OF BIOTECHNOLOGY



#### **CERTIFICATE**

Certified that the project work entitled Screening of molecular modelling studies of novel naphthalene-catechol derivatives against SOD1: Determination of drug lead against Amyotrophic Lateral Sclerosis" carried out by Ms. VIDHYASHREE.R(10X15BT035) and Ms. SHOPHIYA.S(10X15BT040), a bonafide students of The Oxford College of engineering in partial fulfillment for the award of Bachelor of Engineering in Biotechnology of the Visvesvaraya Technological University, Belgaum during the year 2018-2019 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. Gangadhar Gouripur

**Project Internal Guide** 

Dept of BT

External Viva

Dr Dr.B.K. Manimatha HOD and Dean R&D

Dept of BT

Dr. B.K MANJUNATHA

Professor & Head
Department of Biotechnology
The Oxford College of Engineering
Bengaluru-560 088.

Name of the examiner

1. 2. Dr. Rys Cy PRINCIPAL PRINCIPAL

DrRVP

Commanahalli, Hosur Road Bengaluru-560 068.

Signature with date

2 37

BOMMANAHALLI, BANGALORE-560068

(Affiliated to Visvesvaraya Technological University, Belagavi)

# DEPARTMENT OF BIOTECHNOLOGY



#### CERTIFICATE

Study on Phenolic Extracts (Lignans) from Leucas species" carried out by DEEPTI K. USN 10X14BT012 and UMME HANI USN 10X15BT045, bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of degree of Bachelor of Engineering in BIOTECHNOLOGY of the Visvesvaraya Technological University, Belagavi, during the academic year 2018 – 2019. It is certified that all the corrections/suggestions indicated during internal assessment have been incorporated in the report. The Project report has been approved as it satisfies the academic requirements in respect of Project prescribed for the said Degree.

Ms. Salma Kausar M Project Guide Dept. of BT

Department, of BT Department of Engineering

Bengaluru-560 068.

Dr. R.V. Praveena Gowda
Principal
Dr. R.V. TOCE ENA GOW

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

External Viva

Name of examiners

2. Dr. Rynt

Signature with date

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### Department of Civil Engineering

# Certificate

This is to certify that the project work entitled Analysis of travel time and speed flow relationship of heterogeneous traffic case study of selected stretch of silk board to sarjapuris a bonafide work carried out by

GANESH TADASALUR	1OX16CV407
MALLIKARJUN G HANAGANDI	1OX16CV409
MOUNESH	10X16CV412
SUNIL KUMARA T N	10X16CV418

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

Signature of Internal Guide

Dr. TSM Head of the Department.

NA GOWDA

Head of the Department The Oxford College of Engineering Department of Civil EngineeringBommanahali, Hosur Road

University Examiners: The Oxford College of Engineering Bengalury-560 068.

Bangalore - 560 068.

Signature of Examiner

Signature of Examiner-1

1

# THE OXFORD COLLEGE OF ENGINEERING BENGALURU - 560068 DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the "FOUNDATION PROTECTION SYSTEM USING MICROPILES" is a bonafide work carried out Ms.C SUSHMA, Ms.INCHARA V R, Ms ASHWINI J, Ms.CHITHRA M in the partial fulfilment of the award of the degree in B.E in CIVIL ENGINEERING from The Oxford College of Engineering under Visveswaraya Technological University, Belgaum for the year 2018-2019. The internship report has been approved as it satisfies the academic requirement in respect of the internship report prescribed for the said degree.

**Project Guide** 

Mr. MAHESH KUMAR S

Asst. Professor

External guide

Mr. R.RAMANATHAN

SCIENTIST/ENGINEER 'SE'

URSC-ISRO, BENGALURU

Dr. TS MALLESHAIAH

Department of Civil Engineering, TOCE

Head of the Department

Department of Civil Engineering

The Oxford College of Engineering

Examiner Bangalore - 560 068.

incipal

Dr. R V PRAVEENA GOWDA

TOCE

Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

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

# THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI, BENGALURU-560068



#### CERTIFICATE

A STUDY ON FIBRE REINFORCED CONCRETE This is to certify that the project work entitled

Carried out by Vinay (10x15cv108), Veerabhadra (10x15cv104), Dhanalakshmi (10x15cv116), Sanjay (10x15cv088) are bonafide students of The Oxford College Of Engineering . In partial fulfilment for the award of the Degree of Bachelor of Engineering. Prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2018-2019. It is certified that all the suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library, the project report has been approved as it certifies the academic requirements in respect of project work prescribed for the said degree.

Dr. Malleshail

Head of the Department

Detect method particular incering

The Oxford College of Engineering Department of Civil Engineering. Bangalore - 560 068.

**Project Guide** 

**Department of Civil Engineering** 

Praveena gowda

Principle of the college

Dr. R.V. PRAYEENA GOWDA PRINCIPAL

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

signature

Examiner

1) Dr Malley

8th Mile Stone, Bommanahalli, Hour Road, Bangalore – 560 068. (Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi)

### DEPARTMENT OF CIVIL ENGINEERING



## CERTIFICATE

Certified that the project work entitled "Study on Compression and Split tensile strength of Green concrete carried out byMr. AKASH RAJAPUT, Mr. BASAVARAJU H M, Mr. KARTHIK S, Mr. VENKATESH PRASAD N a bonafide student of "THE OXFORD COLLEGE OF ENGINEERING" in partial fulfillment for the award of degree of BACHELOR OF ENGINEERING" in "CIVIL ENGINEERING" of the Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is to certify that all suggestions and corrections indicated for the internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the B.E degree.

Assistant professor, Dept. of civil T.O.C.E. Bengaluru.

Department of Civil Engineering The Oxford College of Engineering The Oxford College of Enginee

Bangalore - 560 068.

External viva:

Dr. R.V. PARAMEENA GOW T.O.C.B. Bengaturu.

Bommanahalli, Hosur Road Bengaluro-580 068.

Name of the Examiners

Signature with Date

## THE OXFORD COLLEGE OF ENGINEERING BENGALURU - 560068 DEPARTMENT OF CIVIL ENGINEERING



#### CERTIFICATE

This is to certify that the Project "INTERLINKING OF RIVERS" is a bonafide work carried out by Mr. ABDUL RASHEED N (10X15CV001), Mr. ARIF BHEEMANNA(10X15CV014), (1OX15CV012), Mr. PASHA HARSHAVARDHAN R(10X15CV025) in the partial fullfilment of award of the degree in BE IN CIVIL ENGINEERING from The Oxford College of Engineering under Visvesvaraya Technological University, Belgaum for the year 2018-2019. The Project report has been approved as it satisfies the academic requirement in respect of the Project prescribed for the said degree.

External Examiner

1. Dr malled 2. Elavorase'. V

Head of the Department

Department of Civil Engineering

The Oxford College of Engineering Bangalore - 560 068.

Ochom 14/2

Dr. R.V. PRAVEEN PRINCIPAL The Oxford College of Engine

Bommanahalli, Hosur Roi Bengaluru-560 068.

(Affiliated to Visvesvaraya Technological University, Belagavi)

Bommanahalli, Bangalore - 560068

## DEPARTMENT OF CIVIL ENGINEERING



#### CERTIFICATE

This is to certify that the project work entitled by "GEOPOLYMER MORTAR" carried out by following bonafide students of The Oxford College of Engineering, IMSULONG JAMIR (10X15CV027), MERENBENLA AIER (10X15CV055), MOASUNEP JAMIR (10X15CV057), TAMU BAGANG (10X15CV100) in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2018-19. It is certified that all corrections/suggestions for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for the said degree.

Dr. T S MALLESHAIAH

Project Guide

HOD(Civil dept, TOCE)

Principal

Dr. R.V. PRAVEENA GOWDA PRINCIPAL

The Oxford College of Engineering Bommanahalli, Hosur Road Bengsture-580 068.

EXTERNAL VIVA

Name of the Examiners

Signature / Date

6

## THE OXFORD COLLEGE OF ENGINEERING BENGALURU - 560068 DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the seminar on STUDY OF STRENGTH EFFICIENCY OF NANO CONCRETE is a bonafide work carried out by Mr AKASH L (10X15CV003), Ms BINDU C S ( 10X16CV402) ,Mr LIKHITH M (10X15CV049) , Mr SRISHAIL SAJJAN (10X16CV417) in the partial fulfilment of award of the degree in BE IN CIVIL ENGINEERING from The Oxford College of Engineering under Visvesvaraya Technological University, Belgaum for the year 2018-2019. The seminar report has been approved as it satisfies the academic requirement in respect of the seminar prescribed for the said degree

ROJECTIGUIDE Ms RAMYA A V

Asst. Professor

Dr. T S MALLESHAIAH

Department of Civil Engineering, TOCE

Head of the Department

Department of Civil Engineering

The Oxford College of Engineering

Bangalore - 560 068.

Dr. R.V. 日 PPHICE MA GOWDA

Oxford College of Engineer
Bommanal elli, Hosur Road

Bengaluru-560 068.

Blaver

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



#### CERTIFICATE

This is to certify that the Project work entitled "TREATMENT OF DAIRY WASTEWATER BY USING ANAEROBIC UPFLOW REACTOR"is a bonafied work DEEPAK(1OX16CV408), VELROY M by carried out (10X15CV115),S SHEIKH (10X15CV105),ZAHOOR AHMAD SHREYA(10X15CV079) in the partial fulfilment for the award of Bachelor of Engineering (civil) from The Oxford College of Engineering under Visvesvaraya Technological University, Belgaum for the year 2018-2019. The Project report has been approved as it satisfies the academic requirement in respect of the Project work prescribed for the said degree.

Head of the Department

The Oxford College of Engineering

Battosi ore - 560 068.

Dr.T S MALLESHAIAH
Dept. of Civil Engineering, TOCE

Principal

Dr. R V PRAVEENA GOWD

Dr. R.V. PRINCIPAL

The Oxford College of Engineeril
Signature With date proper

External viva

Ms. KAVYA S K

Asst. Prof., Civil

Name of the Examiners

1

2

Eloverasi V

Hosur Road, Bommanahalli, Bangalore-560068

(Affiliated to VTU and approved by AICTE Accredited by NAAC and NBA)

## DEPARTMENT OF CIVIL ENGINEERING



#### CERTIFICATE

Certified that the Project work entitled "AN EXPERIMENTAL STUDY ON BEHAVIOUR OF ENGINEERED CEMENTITIOUS COMPOSITE" carried out by CHIRANJEEVI S (10X15CV016), KUMAR(10X15CV045), POOJA.N(10X15CV068), SHARANABASAVA(10X15CV091), a bonafied students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of degree of Bachelor of Engineering in CIVIL ENGINEERING of Visvesvaraya Technological University, Belgaum during the academic year 2018-19. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Project work has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signature of the Guide Mrs. SUJATA G Signature of the HOD Dr.T.S.MALLESHAIAH

Name of the Examiners:

Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
Bangalore - 560 068.

Bangalore - 560 068.

Signature of the Principal

Dr. R.V. PRAVEENA GOWDA Dr. R.V. PRAVEENA GOWDA

The Oxford College of Engineeric Burnature with dates Road Bungaluru-560 068.

## THEOXFORDCOLLEGEOFENGINEERING BENGALURU - 560068 DEPARTMENT OF CIVIL ENGINEERING



## CERTIFICATE

This is to certify that the "ANALYSIS AND DESIGN OF MULTI STORIED RESEDENTIAL BUILDING SUBJECTED TO LATERAL FORCES USING STAADPRO " is a bonafide work carried out by Ms DEEPIKA S, Ms. HARSHITHA R ,Mr. MAHESHA S M, Mr. SYED NABEEL ABBAS .in the partial fulfilment of the award of the degree in B.E in CIVIL ENGINEERING from The Oxford College of Engineering under Visvesvaraya Technological University, Belgaum for the year 2018-2019. The internship report has been approved as it satisfies the academic requirement in respect of the internship report prescribed for the said degree.

Insernal Guide Mr. RESHMA H K Asst. Professor

Dr. T S MALLESHAIAH

Department of Civil Engineering, TOCE

Head of the Department Department of Civil Engineering The Oxford College of Engineering ExaminBangalore - 560 068,

1). Elavarasi V

Dr. R V PRAVEENA GOWDA Dr. R.V. PRANGENA GOWDA PRINCIPAL

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

# RENGALUKU - 500000 DEPARTMENT OF CIVIL ENGINEERING



## CERTIFICATE

Certified that the project work entitled "WATER QUALITY ASSESSMENT FOR carried out by Karthik (10X15CV036), Lavanya B MADIWALA LAKE" (10X15CV048), Manjunath K (10X15CV053), Moulika Shetty M (10X16CV411) are bonafied students of THE OXFORD COLLEGE OF ENGINEERING in the fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2018-2019. It is certified that all corrections / suggestions indicated for Internal Assessment have been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering.

Ms. Kavya S K Asst. Professor

Dr. T S Malleshaiah Dept. of Civil Engineering Head of the Department

Department of Civil Engineering

The Oxford College of Engineering

Bangalore - 560 068.

Dr. R V Praveena Gowda The Oxford College of

Engineering

Dr. R.V. PRAVEENA GOWD PRINCIPAL

The Oxford College of Engineeri Bommanahalli, Hosur Road Signature with date -560 068.

External Viva

Name of the examiners

## The Oxford College Of Engineering

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



### Department of Civil Engineering

## Certificate

This is to certify that the project work entitled Smart Roads(Using Piezoelectric Sensors)

is a bonafide work carried out by

Pramukh K A	10X15CV069
Priyanka R	10X15CV071
Rujath Gowda B	10X15CV078
Sachin Poojary	10X15CV083

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

Head of the Department

Name and Signature of Departmental fier Departmenting The Order Police of Engineering Internal Guide

The Galard College of Engineering Lungalore - 560 068.

AVEENĂ GOWDA PRINCIPAL

Bengalahalli, Hosur Road Bengaluru-560 068.

University Examiners:

Non e and Signature of Examiner-1

Elavarale, V Wlan



## Department of Civil Engineering

# Certificate

This is to certify that the project work entitled "PLASTIC ROADS" is a bonafide work carried out by

RACHEL LALMUANSANGI
SANTHOSH K
VRINDA R
10X15CV073
10X15CV090
10X15CV112
10X15CV113

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

Mr.PRASHANTH HATWAR T S

Signature of Internal Guide Dr.T S MALLESHAIAH

Head of the Department.

Head of the Department

Dr.R V PRAVEENA

DERENA GOWE

Principa RINCIPAL

Department of Civil Engineering The Oxford College of Engineer
The Oxford College of Engineering Bommanahalli, Hosur Road

Bangalore - 560 068.

Bengaluru-560 068.

University Examiners:

nature of Examiner-1 Well

Signature of Examiner-2

## THEOXFORDCOLLEGEOFENGINEERING BENGALURU – 560068 DEPARTMENT OF CIVIL ENGINEERING



#### CERTIFICATE

This is to certify that the "ANALYSIS AND DESIGN OF MULTI STORIED RESEDENTIAL BUILDING SUBJECTED TO LATERAL FORCES USING STAADPRO" is a bonafide work carried out by Ms DEEPIKAS, Ms. HARSHITHAR, Mr. MAHESHAS M, Mr. SYED NABEEL ABBAS in the partial fulfilment of the award of the degree in B.E in CIVIL ENGINEERING from The Oxford College of Engineering under Visvesvaraya Technological University, Belgaum for the year 2018-2019. The internship report has been approved as it satisfies the academic requirement in respect of the internship report prescribed for the said degree.

Internal Guide Ms. RESHMA H K Asst. Professor

нор

Dr. T S MALLESHAIAH

Department of Civil Engineering, TOCE

Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
ExamineBangalore - 560 068.

1) or mallow

2) Elavarasi V

Principal

Dr. R V PRAVEENA GOWDA

Dr. R.V. PRAVEENA GOWDA
PRINCIPAL

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

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



### CERTIFICATE

This is to certify that the Project work entitled "TREATMENT OF DAIRY WASTEWATER BY USING ANAEROBIC UPFLOW REACTOR" is a bonafied work carried out by M DEEPAK(10X16CV408), VELROY FALERO (10X15CV105), ZAHOOR AHMAD SHEIKH (10X15CV115), S SHREYA(10X15CV079) in the partial fulfilment for the award of Bachelor of Engineering (civil) from The OxfordCollege of Engineering under Visvesvaraya Technological University, Belgaum for the year 2018-2019. The Project report has been approved as it satisfies the academic requirement in respect of the Project work prescribed for the said degree.

Guide

Ms. KAVYA S K
Asst. Prof., Civil

Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
Bargariore - 560 068.

Dr.T S MALLESHAIAH
Dept. of Civil Engineering, TOCE

U Principal

Dr. R V PRAVEENA GOWDA

Dr. R.VI®©©VEENA GOWDA

PRINCIPAL
The Oxford College of Engineering
Signature with date and

External viva

Name of the Examiners

1

2

Elavarusi V

15/6

## THE OXFORD COLLEGE OF ENGINEERING BENGALURU - 560068 DEPARTMENT OF CIVIL ENGINEERING



#### CERTIFICATE

This is to certify that the project "RECYCLED COARSE AGGREGATES IN CONSTRUCTION WORKS" is a bonafide work carried out by TEJAS S REDDY (10X15CV101), MAHESH G D (10X14CV039), MOHAMMED SALMAN (10X14CV094), RAMAKRISHNA SB (10X15CV076) in the partial fulfilment of the project in VIII Semester Bachelor of Engineering in Civil Engineering from The Oxford College of Engineering under Visvesvaraya Technological University, Belgaum for the year 2018-2019. The project report has been approved as it satisfies the academic requirement in respect of the project prescribed for the said degree.

Internal Guide

Dr. T S MALLESHAIAH PROFESSOR, HOD

Department of Civil Engineering

Bangalore - 560 068.

Dr. R V PRAVEENA GOWDA

Principal

TOCE

Dr. R.V. PRAVEENA GOWDA

The Oxford College of Engineering
Bommanghalli, Hasak Road
CLA FORM 450 048

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Maria Valle Jalla Maria

## THE OXFORD COLLEGE OF ENGINEERING

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

## DEPARTMENTOF CIVIL ENGINEERING



#### CERTIFICATE

Certified that the Internship work entitled "STABALIZATION OF BLACK COTTON SOIL USING GGBS"carriedoutbyAKSHATHA S(10X15CV005),ANIL KUMAR S M(10X15CV011)\*IRFAN G(10X15CV029), JAYALAKSHMI R M(10X15CV032), a bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of degree of Bachelor of Engineering in CIVIL ENGINEERING of Visvesvaraya Technological University, Belgaum during the academicyear2018-19.ltiscertifiedthatallthecorrections/suggestionsindicatedforInternalAssessment have been incorporated in the report. The Internship work has been approved as it satisfies the academic requirements in respect of internship work prescribed for the saiddegree.

Signature of the Guide Ms.KRITHIKA M

Signature of the HOD Dr.T.S.MALLESHAIAH Head of the Department Department of Civil Engineering

The Oxford College of Engineering Name of the Examiners: Baugalore - 500 768.

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

Dr. R.V. PRAVEENA GOWD PRINCIPAL

guature with dates: noon Bengaluru-580 068.

## THE OXFORD COLLEGE OF ENGINEERING BENGALURU - 560068 DEPARTMENT OF CIVIL ENGINEERING



#### CERTIFICATE

This is to certify that the "STRENGTH OF GEOPOLYMER CONCRETE BY USING SUGARCANE BAGASSE ASH " is a bonafide work carried out by

Mr HARISH.S,Mr KRISHAN KUMAR , Mr KUMARA MUNI.M ,Mr MADHU.N in the partial fulfilment of the award of the degree in B.E in CIVIL ENGINEERING from The Oxford College of Engineering under Visvesvaraya Technological University, Belgaum for the year 2018-2019. The project report has been approved as it satisfies the academic requirement in respect of the project report prescribed for the said degree.

Internal Guide Ms. SHRADHA J Asst. Professor

Dr. T S MALLESHAIAH

Department of Civil Engineering

TOGE of the Department

Department of Civil Engineering

The Oxford College of Engineering Bangalore - 560 068.

2)

Dr. R V PRAVEENA

DETOCE RAVEENA GOWDA PRINCIPAL

The Oxford Counge of Engineering Bommenaham Hosur Road Bengalury 560 068.

(Affiliated to Visvesvaraya Technological University, Belagavi)

Bommanahalli, Bangalore - 560068

## DEPARTMENT OF CIVIL ENGINEERING



## **CERTIFICATE**

This is to certify that the project work entitled by "GEOPOLYMER MORTAR" carried out by following bonafide students of The Oxford College of Engineering, IMSULONG JAMIR (10X15CV027), MERENBENLA AIER (10X15CV055), MOASUNEP JAMIR (10X15CV057), TAMU BAGANG (10X15CV100) in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2018-19. It is certified that all corrections/suggestions for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for the said degree.

Is. Ramya A V

Dr. T S MALLESHAIAH

HOD(Civil dept, TOCE)

Dr. PRAVEENA GOWDA

Dr. R.V. PRAVEENA GOWDA PRINCIPAL

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

EXTERNAL VIVA

Name of the Examiners

1. or maleed

2. Elmanusi V

ME

Signature / Date

Blannigh

### THE OXFORD COLLEGE OF ENGINEERING 10<sup>TH</sup> MILESTONE, BOMMANAHALLI HOSUR ROAD, BENGALURU - 560068



### Department of Civil Engineering

### Certificate

This is to certify that the project work entitled ANALYSIS AND DESIGN OF

MULTISTOREY BUILDING USING ETABS is a bonafide work carried out by

MELAGIRI MOHAN KRISHNA

10X15CV054

SACHIN

1OX15CV081

SUHASINI JADHAV

1OX15CV097

VIJAYAKUMARA THIMBALI K V

10X15CV107

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

e Department.

Director

Head of the Department

Dr. R.V. PRAVEENA GOWDA

Department of Civil Engineering

PRINCIPAL

The Oxford College of Engineering Oxford College of Engineering

Bornmanahaili, Hosur Road

Bengaluru-560 068

University Examiners:

Bangalore - . 50 068.

Name and Signature of Examiner-2

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

### DEPARTMENT OF AUTOMOBILE ENGINEERING



#### CERTIFICATE

Certified that the project work entitled by "Influence of Nano Fillers on Glass-Basalt Hybrid Composites in Automobile Applications" carried about the bonafide students of The Oxford College of Engineering, AKHIL ARJUN (10X15AU005), AMBADI M P (10X15AU006), CHETAN KUMAR (10X15AU013), HARISREE VAISHNAV (10X15AU017) in partial fulfillment for the award of "Bachelor of Engineering" as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2018-19. It is certified that all corrections/suggestions for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for the said degree.

BOE-Chairman (AUE), VTU Examinations Mr. PRASANNAPSMsor and Drad Rop J. Uf BRomob DIEn R. V PRAV

Guide

The Oxford Colingopf Engineering Hosur Road, Bangalore-560068

E-mail: engdhodautomobile@theoxford.edu

Mobile: 9448373636

EXTERNAL VIVA

Dr. R. Principalena GOWDA PRINCIPAL

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

Name of the Examiners

Signature / Date

Bommanahalli, Bengaluru – 560068

( Affiliated to VTU and approved by AICTE )

## DEPARTMENT OF AUTOMOBILE ENGINEERING



This is to certify that the Internship report entitled "FABRICATION AND BUILDING OF TWO WHEEL DRIVE HYBRID SCOOTER" submitted by ADITYA KULKARNI (10X15AU004), NAHEEM A (10X15AU029), SHARATHGOWDA R J (10X15AU043) & VARUN H L (10X15AU048) has been satisfactorily completed. It is certified that all corrections/suggestions indicated during internal assessment have been incorporated in the report. The project report has been approved as it is satisfying the academic requirements prescribed by Visvesvaraya technological University, Belagavi.

**Internal Guide** 

Mr. Maruthi S B

Assistant Professor

Dr. Raju B R

Professor & Head Dept. Of AUE, TOC Bepartment of Automobile Engineering
The Oxford College of Engineering Bommanahalli, Hosur Road

Bangalore-560 068.

The Oxford & Prayeena Gowdaring Bomm Principal Hosur Road Benga (4)4-560 068.

Name of the Examiners

Signature with date

ROUBR 15/6/

Hosur Road, Bommanahalli, Bengaluru - 560068

(Affiliated to Viesvesvaraya Technological University, Belagavi)

DEPARTMENT OF AUTOMOBILE ENGINEERING



#### **CERTIFICATE**

This is to certify that the project entitled "FINGER PRINT IGNITION FOR TWO-WHEELER VEHICLE" Carried out by MR BALAJI YASHWANTH RAJ N (10X16AU401), MR DEEPAK M V (10X16AU402), MR RAMACHANDRARAO D NAIK (10X16AU408), MR SACHIN KUMARA S T (10X16AU409), bonafied student of The Oxford College of Engineering in partial fulfilment for award Bachelor of Engineering in Automobile Engineering of the Viesvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Project Guide L. C. B. 2019 Mr. SAPTHAGIRI PRASAD N

Assistant Professor Dept. Of Automobile Engineering HOD DR. RAJU B R

Dept. of Automobile Engineering
Professor & Head

Department of Automobile Engineering
The Oxford College of Engineering
Barran Shall, Hosur Road

Name of Examiners

1. Dr. RayuBR 2. Icaethib du Ratter 15/6/19

incipal

DR. R V PRAVEENA GOWDA

The Oxford College of Engineering Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

Bommanahalli, Hosur Road

The Oxford Coilege of Engineering

Signature with Date 8.

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

Department of Automobile Engineering



#### CERTIFICATE

This is to certified that the Project work entitled "FABRICATION OF SMART BICYCLE" is an authentic record of the project work has been carried out by the students KEERTHI KUMAR D (10X15AU023), PRATHAP R SINGH (10X15AU034), RAJENDRAN M (10X15AU036), SIDDHARTHA BANERJEE (10X15AU045), bonafide students of The Oxford College of Engineering, Bangalore, in partial fulfilment for the award of the degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-2019. The Project Report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

ME ADEEPAK US

PRAVEENA GOWDA

Guide

Professor & Head Department of Automobile Engineering

Bommanahalli, Hosur Road Bangalore-560 068.

PRINCIPAL, TOCE

The Oxford College of Engineering Dr. R.V. PRAVEENA GOWDA PRINCIPAL

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

**External Viva** 

Name of Examiners

1. Dv. Raju BR 2. Icarthil. A.

2000 BB 15/6/19

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

## DEPARTMENT OF AUTOMOBILE ENGINEERING



#### **CERTIFICATE**

This is to certify that the internship entitled "DEVELOPMENT AND FABRICATION OF ELECTRIC DIRT BIKE" is a bonafide work carried out by LOKESH V (10X15AU024), MITHUN GOWDA C G (10X15AU026), SAI RISHWANTH N (10X15AU028), SWARAJ S (10X15AU046) in partial fulfillment of internship in VIII semester, Bachelor of Engineering in the course of Automobile Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year 2018-2019.

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

Internal Guide

DEEPAK US

Asst. Professor

Dept. of AUE, TOCE

ROTH COL

Dr. RAJU B R

Professor and HOD

Department of Automobile Engineering
The Oxford College of Engineering
The Oxford College of Engineering

Professor & Head

Dr. N. PROBENA GOWDA
Princibal PRINCIPAL
The OxoopRANEENA GOWDA
Bommanahalli, Hosur Road
Principal al OCE 60 068

Name of the Examiners

Rottige DV.

Roju BR)

Signature/date

(Affiliated to Visvesvaraya Technological University, Belagavi)

Bommanahalli, Bangalore - 560068
THE DEPARTMENT OF AUTOMOBILE ENGINEERING

### **CERTIFICATE**

Certified that the project work entitled "THE DEVELOPMENT OF MAGNETIC BRAKING SYSTEM USING PERMANENT MAGNETS" carried out by Mr. MOHAMMED ANFAL (10X14AU015), MR. MOHAMMED ATEEQ (10X14AU016), MS. RAMALLA AHMEDI (10X15AU037), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering / Bachelor of Technology in AUTOMOBILE ENGINEERING of the Visvesvaraiah Technological University, Belgaum during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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

MR SANDEEP CHAVAN DR. RAJU BR DR. PRAVEENA GOWDA Professor & Head

(PROJECT GUIDE)

Department of Automobile Engineering NCIPAL AVEENA GOWDA
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bangalore-560 068.
The Oxford College of Engineering

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

**External Viva** 

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	Jame	of the	examiners

1. Dv. Rogu BR Rallibr 15/6/19 2. Icarthile Av 15/6/1

(Affiliated to Visvesvaraya Technological University, Belagavi)

Bommanahalli, Bangalore - 560068

#### DEPARTMENT OF AUTOMOBILE ENGINEERING



#### **CERTIFICATE**

It is Certified that the project work entitled by "INFLUENCE OF NANO FILLERS ON MECHANICAL AND TRIBOLOGICAL PROPERTIES OF FIBER REINFORCED HYBRID COMPOSITES FOR AUTOMOTIVE INDUSTRIES APPLICATIONS" is a bonafide work carried out by Mr. ABHISHEK K T(10X15AU002), Mr. DARSHAN S M (10X15AU014), Mr. JAYANTH R (10X15AU021), Mr. PRADEEP KUMAR V(10X15AU32) at THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment of the requirements for the award of BACHELOR OF ENGINEERING IN AUTOMOBILE ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2018-19. It is certified that all corrections and suggestions indicated for internal assessment have been approved as it satisfies the academic requirements in respect of project report prescribed for the said degree.

Rattibe Signature of HOD

Dr. RAJU B R

Dept. of Automobile Engineering

Professor & Head

Department of Automobile Engineering
The Oxford College of Engineering
Signature of Guide Bommanahalli, Hosur Road
Bangalore-560 068.

Dr. RAJU B R

EXAMINER 1: -

EXAMINER 2: --

Signature of principal

Dr. R V PRAVEEN GOWDA

The Oxford College of Engineering Dr. R.V. PRAVEENA GOWDA PRINCIPAL

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

Rather 15/6/19

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

#### DEPARTMENT OF AUTOMOBILE ENGINEERING



#### CERTIFICATE

This is to certify that the project work entitled by "EXPERIMENTAL STUDY OF CANOLA OIL AS A BLEND FOR A DIESEL ENGINE" carried out by following bonafide students of The Oxford College of Engineering, ANITET LONGKUMER (10X14AU005), ASHUTOSH M (10X15AU011), JENIBEMO T MURRY (10X15AU022), MANDHARA G (10X16AU405) in partial fulfilment for the award of Bachelor of Engineering in Automobile Engineering as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2018-19. It is certified that all corrections/suggestions for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for the said degree.

Mr. MARUTHI S B Project Guide Professor & Head

Department of Automobile Engineering
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bangalore 191068.

Dr. Rey PRAVEENA GOWDA

Be Principal 068

**EXTERNAL VIVA** 

Name of the Examiners

Signature / Date

1. Dr. Rajn BR 2. Karthe Iv Rambar 15/6/19

Bommanahalli, Hosur Road, Bengaluru, Karnataka -560068 (Affiliated to Visvesvaraya Technological University, Belgavi) Department of Mechatronics Engineering



#### Certificate

"Smart Rewarding Waste Management System" Carried out by K.R.SAI CHARAN (10X15MT018), ANUSHA P PRADEEP (10X15MT004), SHAMMAH (10X15MT041), GAYATHRI DEVI P (10X15MT014) bonafide students of The Oxford College Of Engineering in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-19. 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. N.Thirumurugan Asst.Professor, Dept. of MTE Mr. Jayakumar ND Professor and HOD of MTE

The Principal DR.Praveena Gowda R.V

PRINCIPAL

The Oxford College of Engineerin Bommanahasi, Hosur Road Bengaturu-560 068.

Name of the Examiners

2. Affiremelygen

Signature of Examiners

15

Bommanahalli, Hosur Road, Bengaluru, Karnataka -560068 (Affiliated to Visvesvaraya Technological University, Belgavi) Department of Mechatronics Engineering



#### Certificate

"Railway Track Crack/Break Detection System with Onboard Signalling" Carried out by Mr. SEBIN MATHEW (10X16MT407) Mr. VIVEK PURUSHOTHAM (10X15MT049) Mr. RAGHU J (10X16MT406) Mr. VINEETH V (10X16MT412) bonafide students of The Oxford College Of Engineering in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-19. 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. Chethan S Asst.Professor, Dept. of MTE HOD
Mr. Jayakumar N
Professor and HOD of

& HOD

Department of Mecharismics
The Oxford College Of En

Bommanahalli, Bangalore - --- -

The Principal Dr.R V Praveena Gowda

Dr. R.V. PRAVEENA GOWDA PRINCIPAL

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

Signature of Examiners

12/6/9

Name of the Examiners

2. M. ilyaningan

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

## DEPARTMENT OF MECHATRONICS ENGINEERING



#### **CERTIFICATE**

Certified that the project entitled "EFFECTIVE ALERT SYSTEM FOR AUTOMOBILE WITH VEHICLE TO VEHICLE COMMUNICATION" is carried out by Mr. ASHOK KUMAR A (10X15MT001), Mr. POOJITH V (10X15MT032), Mr. THIPPESWAMY CA(10X15MT045), bonafide students of The Oxford College of Engineering, Bengaluru in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2018-2019.

It is certified that all corrections suggestions indicated for internal assessment 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. Chethan S Asst. Professor, Dept. of MTE

Signature of HOD Mr. Jayakumar N Signature of Principal Dr. R V Praveena

Professor and HOD of Dr. R.V. P. Gowda A GOWDA

DepartmenMTE fee hetronics Principal, TOCE The Calculation of Segment Bommanahalii, Hosur Road

Name of the examiners

ii

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

#### DEPARTMENT OF MECHATRONICS ENGINEERING



#### **CERTIFICATE**

Certified that the project entitled "PRODUCTIVITY IMPROVEMENT BY APPLYING TOYOTA PRODUCTION SYSTEM" is carried out by Mr. DARSHAN R with USN 10X15MT010, Mr. MOHITH S with USN 10X15MT025, Mr. VIKAS S REDDY with USN 10X15MT047 in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2018-2019.

It is certified that all corrections suggestions indicated for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of HOD

MP-MAYAKUMAR N

Department of Mechatronics

Bommanahalli, Branch

Signature of Guide

Ms. RANI AISHWARYA S N

**External Examiners:** 

Name:

Signature of Printipal

Dr. PRAVEENA GOWDA

Dr. R.V. PR

The Oxford College Of Ecgineering The Oxford College Engineering Signature

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

### DEPARTMENT OF MECHATRONICS ENGINEERING\



#### **CERTIFICATE**

Certified that the project entitled "DUAL NOZZLE 3D PRINTER" is carried out by Mr. Prajwal belliappa (10X15MT030), Mr. Punith kumar R (10X15MT034) in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2018-2019.

It is certified that all corrections suggestions indicated for internal assessment 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. Dhananiava V

Bommagahalli, Bangalore - 560 (B& R.V. )

Signature of HOD

Mr. Jayakumar N

The Oxford Oxfor

Signature of Principal
The Oxford Vil Praveenagineering
Bommand Allia Hesur Road
Bengaluru-560 068.

External Examiners Name:

ı: Dilip.L.

2: A (Mirumurugan

Signature

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

### DEPARTMENT OF MECHATRONICS ENGINEERING



#### **CERTIFICATE**

Certified that the project entitled "MULTICONTROL OF WHEELCHAIR USING RASPBERRY PI 3" is carried out by Mr. Dennis M D (10X15MT011), Mr. Jivin George (10X15MT016), Mr. P Sumanesh Mohan (10X15MT031) and Mr. Shyjin Scaria Saji (10X15MT043) in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2018-2019.

It is certified that all corrections suggestions indicated for internal assessment 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.

prescribed for the said degree.	
Signature of Project Guide Signature of HOD Signature of Principal Mrs. Tulasi K L  Assistant Professor Dept. of MTE TOCE  TOCE  Name of the Examiners  1	ering

Bommanahalli, Hosur Road, Bengaluru, Karnataka -560068 (Affiliated to Visvesvaraya Technological University, Belgavi) Department of Mechatronics Engineering



#### Certificate

"Smart Rewarding Waste Management System" Carried out by K.R.SAI CHARAN (10X15MT018), ANUSHA P PRADEEP (10X15MT004), SHAMMAH (10X15MT041), GAYATHRI DEVI P (10X15MT014) bonafide students of The Oxford College Of Engineering in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belgaum during the year 2018-19. 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. N.Thirumurugan

Asst.Professor, Dept. of MTE Professor and HOD of MTE

Asst.Professor, Dept. of MTE

The Principal

DR Prayeena Gowda R.Y

PRINCIPAL

OBS. PRINCIPAL

Description of Engineering

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

Name of the Examiners	Signature of Examiner
1. Dilip-R	1/1/19
2 Meruminigan	Jeff 1916

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

## DEPARTMENT OF MECHATRONICS ENGINEERING



#### CERTIFICATE

Certified that the project entitled "HEXA FARM BOT" is carried out by Mr. ARNOLD SACHITH A HANS (10X15MT005), Mr. NITIN (10X15MT027), Mr. (1OX15MT023), Mr. ROBSOM MOHIT BANSAL **JANI** (10X15MT038) in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2018-2019.

It is certified that all corrections suggestions indicated for internal assessment 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. JAYAKUMAR. N

Signature of HOD Mr. JAYAKUMAR. N

Prof. & HOD Department of Mechatronics The Oxford College of Engineering

The Oxford College Of Engineering Bommanahalli, Bangalore - 560 068.

athre of Principal

Dr. PRAVEENA GOWDA Dr. R.V. PRAVEENA GOWDA

PRINCIPAL

Bommanahalli, Hosur Road

Signature with Date

Name of the Examiners

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

## DEPARTMENT OF MECHATRONICS ENGINEERING



#### **CERTIFICATE**

Certified that the project entitled "SILENT SPEECH RECOGNITION" is carried out by Mr. AJAY YADUKRISHNAN H (10X15MT002), Mr. Mr. PRATHAP **JOSH** ELIAS JOY (10X15MT017), (10X15MT033), Mr. RAGHAV KANOONGO (10X15MT035) in partial fulfillment for the award of Bachelor of Engineering in VISVESVARAYA ENGINEERING of MECHATRONICS TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2018-2019.

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 Mrs. RAJESWARI M Signature of HOD

MPHY KHOAR'N

Signature of Principal Dh.R.V. PRAVEENA GOWDA

Department of Mechatronics The Oxford

The Oxford College Of Engin

ngineering 13UT Road

External Examiners: nenshelli, S

Name:

p. R. horumurugu

Bomma

Hosur Road, Bommanahalli, Bangalore-560068

# DEPARTMENT OF MECHATRONICSENGINEERING



#### **CERTIFICATE**

This is to certify that the project work entitled "BEACH GARBAGE COLLECTION ROBOT USING IMAGE SEGMENTATION" has been carried out by Mr. Dharmendra S (10X15MT012), Mr.Asif Jambagi (10X16MT400), Mr.Kantharaju (10X16MT402), Mr. Vinay Kumar K V (10X16MT411) bonafide students of The Oxford College Of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for the internal Assessment has been incorporated in the Report deposited in the Departmental Library. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering degree.

Signature of Guide

Mrs. RAJESWARI M

Asst. Professor

Dept. of MTE, TOCE

Profitie of Hob Department of Mechatronics Department of Mechatronics

The Oxford College Of Engineering Bommananamanppand: HOD 550 668

Dept. of MTE, TOCE

Signature of Principal

heering Dr. R V PRAVEENA GOWDA

Principal, TOCE

Dr. R.V. PRAVEENA GOWDA PRINCIPAL

The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-500 068.

External Viva-Voce

Name of the Examiners

1 Dikp.R

2. Maumurugan

Signature with Date

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

## DEPARTMENT OF MECHATRONICS ENGINEERING



#### **CERTIFICATE**

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

Signature of Internal Guide

Ms. RANI AISHWARYA S N

Cabul Dissit

Signature of External Guide

Mr. RAHUL DIXIT

Name of the Examiners

1. SHOWMULLUMDS

2. ...N. Alirumurugan

Department of Mechatronics
The Using Lollege of Engineering
to Dr. Janah, Sangalor 560 668

Dr. PRAVEENA GOWDA
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# DEPARTMENT OF MECHATRONICS ENGINEERING



# **CERTIFICATE**

Certified that the project entitled "HEXA FARM BOT" is carried out by Mr. ARNOLD SACHITH A HANS (10X15MT005), Mr. NITIN (10X15MT027), Mr. MOHIT BANSAL (10X15MT023),Mr. ROBSOM **JANI** SHIKARI (10X15MT038) in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2018-2019.

It is certified that all corrections suggestions indicated for internal assessment 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. JAYAKUMAR. N

Signature of HOD Mr. JAYAKUMAR. N

Prof. TOD

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ignature of Principal

Department of Mechatronics The Oxford College of Engineering Bommanahalli, Hosur Road The Oxford College Of Engineering

Signature with Date

Name of the Examiners

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# DEPARTMENT OF MECHATRONICSENGINEERING



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This is to certify that the project work entitled "BEACH GARBAGE COLLECTION ROBOT USING IMAGE SEGMENTATION" has been carried out by Mr. Dharmendra S (10X15MT012), Mr.Asif Jambagi (10X16MT400), Mr.Kantharaju (10X16MT462), Mr. Vinay Kumar K V (10X16MT411) bonafide students of The Oxford College Of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for the internal Assessment has been incorporated in the Report deposited in the Departmental Library. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the Bachelor of Engineering degree.

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Asst. Professor

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IAR Noo Cor. R V PRAVEENA GOWDA

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This is to certify that ABHILASH S N bearing 10X17MBA01 is a bonafide student of Master of Business Administration course of the institute 2018-2019, affiliated to Visvesvaraya Technological University, Belagavi. The project report on A STUDY ON RECRUITMENT AND SELECTION at LKP SECURITIES LTD, BANGALORE is prepared by him/her under the guidance of Dr. R V DHANALAKSHMI, HOD, MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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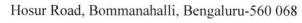
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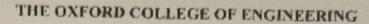
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This is to certify that POOJA A, bearing USN: IOY17MBA18 is a bontafide student of Master of Business Administrator course of the institute 2017-2019, affiliated to Visvesvaraya Technological University, Belagavi. The project report on "TOTAL QUALITY MANAGEMENT THROUGH ITS CUSTOMER SATISFACTION" at BEML LIMITED Unity building, J. C. Road, Bangalore - 560002 India is prepared by him/her under the guidance of RICHA TIWARI, Assistant professor MBA department, in partial fulfillment of the requirement for the award of The Degree of Mariar of Business Administration of Vivvesvaray a Teu mological University, Belagav., Karnataka.

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#### CERTIFICATE

This is to on ify that ABHILASH S N bearing TOX17MBA01 is a bonafide student of Master of Business Administration course of the matilitie 2018 2019, affillated to Visvesvaraya Technological University, Belugavi The project export on A STUDY ON RECRUITMENT AND SELECTION at LKP SECURITIES LTD. RANGALORE IS prepared by him/lie, under the guidence of Dr. R V DHANALAKSHMI, HOD, MBA department, in partial for illment of the requirement for the award of The Degree of Master of Business Administration of Viewesvarroyn Technological University, Belagavi, Kannataka.

Signature of Internal Guide

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Signature of HOD

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Signature of Internal Guide

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Signature of Internal Guide

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## **Department of Master of Computer Applications**



#### CERTIFICATE

This is to certify that the project work entitled

**Twitter Spam Detection** 

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

## AKASH K 10X16MCA01

During the academic year 2018-2019

Signature of the Guide

Prof. Ashok BP

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Signature of the HOD

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### CERTIFICATE

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Facial emotion Analysis Using Deep Convolution Neural Network

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

## BHISHMA PRATAP GUPTA 10X16MCA03

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Prof. Dharamvir

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Dr. M.S. Shashidhara

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

## Master of Computer Applications

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## **CHAITHRASP** 10X16MCA04

During the academic year 2018-2019

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Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled

# Cyberbullying Detection Based on Semantic Enhanced Marginalized Denoising

### Auto-Encoder

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

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## CHAITRA BAGODI 10X16MCA05

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## "HYBRID MODEL BASED DEVELOPER AND COORDINATOR"

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## GANDLAPARTHY KESHAVAREDDY 10X16MCA07

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## GREY SCALE IMAGE COLORIZATION USING NEURAL NETWORK

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## HARSHA R 10X16MCA08

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## CERTIFICATE

This is to certify that the project work entitled

# "APPLICATION OF TEXT CLASSIFICATION AND CLUSTERING OF TWITTER DATA FOR BUSINESS ANALYTICS"

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

> LHAKPA TSERING 10X16MCA11

During the academic year 2018-2019

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## CERTIFICATE

This is to certify that the project work entitled

# "INCIDENT ELUCIDATION WITH AUTO INTELLIGENCE"

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# Master of Computer Applications

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## MANNEM RUTHVIK 10X16MCA12

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Signature with date

Bommanahalli, Hosur Road, Bengaluru-560 968

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## **Knowledge Pointer using OSM**

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## MEGHANA A 10X16MCA13

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## CERTIFICATE

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# "INTELLIGENCE BASED STRUCTURAL TOOL WITH ELABORATED MATRIX"

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## CERTIFICATE

This is to certify that the project work entitled

# Disease Prediction By Machine Learning and Data Mining

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

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## MUBASHERA A R 10X16MCA15

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This is to certify that the project work entitled

## EFFICIENT OBJECT DETECTION AND MATCHING USING FEATURE CLASSIFICATION

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## **MUHSINA VT** 10X16MCA16

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#### **CERTIFICATE**

This is to certify that the project work entitled

Enhancing spam detection on mobile phone SMS performance using FP-Growth and naive bayes classifier

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## **Master of Computer Applications**

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#### CERTIFICATE

This is to certify that the project work entitled

## A MACHINE LEARNING BASED PREDICTION OF SALES FORECASTING USING LINEAR REGRESSION

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### Master of Computer Applications

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Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled Application of Data Mining Methods in Diabetes Prediction

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## **Master of Computer Applications**

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## R.SUPRIYA 10X16MCA20

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This is to certify that the project work entitled

#### **Property Swipes**

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### **Master of Computer Applications**

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## RAJA PAUL 10X16MCA21

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#### CERTIFICATE

This is to certify that the project work entitled

## "GUIDED INDUSTRY SPECIFICATION BASED ILLUSTRATIVE PANEL"

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## **Master of Computer Applications**

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### SOMESH V 1OX16MCA22

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## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled

## "USER BEHAVIOUR BASED ROUTE PREDICTION USING GPS SENSOR"

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

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## TANIMA MAITY 10X16MCA23

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(Dept. of MCA, TOCE)

/ The Head

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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 
"FACE DETECTION AND FACIAL EXPRESSION RECOGNITION 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

## AJAY KUMAR 10X17MCA70

During the academic year 2018-2019

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## **CERTIFICATE**

This is to certify that the project work entitled

## "MULTIPLE HIERARCHICAL DECISION ON NEURAL NETWORK TO PREDICT HUMAN AGE AND GENDER"

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

## AKHIL SAI 10X17MCA71

During the academic year 2018-2019

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#### CERTIFICATE

This is to certify that the project work entitled

## "DATA ANALYTICS ON HEALTH CARE OF HEART DISEASES USING MACHINE LEARNING"

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

#### AMIR GANI BHAT 10X17MCA73

During the academic year 2018-2019

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**External Viva** 

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Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled

## "DIGITAL IMAGE TRACING BY SEQUENTIAL MULTIPLE WATERMARKING"

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

### **Master of Computer Applications**

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## ARUN KUMAR R 10X17MCA74

During the academic year 2018-2019

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Name of Examiners

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## Department of Master of Computer Applications



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This is to certify that the project work entitled

## "A SEMANTIC APPROACH FOR TEXT CLUSTERING USING WORDNET AND LEXICAL CHAINS"

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

## DEEPIKA B 10X17MCA75

During the academic year 2018-2019

Signature of the Guide

Prof.Dharamvir

(Dept. of MCA, TOCE)

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

/ The Head

Department of MCA

The Oxford College of Engineering
Hosur Road, BANGALORE -

The

PRINCIPAL
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Bommanahalli, Hosur Road
Bengalury-560 068.

Signature of the Principal

Dr. R.V.Pravcena Gowda

(Principal, TOCE, Bengaluru)
Dr. R.V. PRAVEENA GOWDA

External Viva

Name of Examiners

Signature with date

1.

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled

"EMAIL SPAM DETECTION USING NAVIE BAYESIAN CLASSIFIER"

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

#### DIVYA B 10X17MCA76

During the academic year 2018-2019

Signature of the Guide

Prof. Dharamvir

(Dept. of MCA, TOCE)

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(Dept. of MCA, TOCE)

/ The Head

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(Principal, TOCE, Bengaluru)

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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

Credit Card Fraud Detection Using Machine Learning Techniques: A Comparative Analysis

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

Master of Computer Applications

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

> HM SADIK AHSAN MAZUMDER 10X17MCA77

During the academic year 2018-2019

Signature of the Guid

Prof. Dharamvir

(Dept. of MCA, TOCE)

Signature of

Dr. M.S. Shashidhara

(Deptation to MCA)

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Name of Examiners

Bommanahalli, Hosur Road, Bengaluru-560 068

## **Department of Master of Computer Applications**



#### **CERTIFICATE**

This is to certify that the project work entitled

#### THE EMERGENCY HELP FINDER ANDROID APPLICATION

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

### JASEEL P V **10X17MCA78**

During the academic year 2018-2019

Signature of the Guide

Mr. Dharamvir

(Dept. of MCA, TOCE)

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Name of Examiners

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Dr. M.S. Shashidhara

(Dept. of MCA; TOCE) Department of MCA

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(Principal, TOCEE Bengalury) 24

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

Bommanahalli, Hosur Road, Bengaluru-560 068

## **Department of Master of Computer Applications**



#### **CERTIFICATE**

This is to certify that the project work entitled

"INFORMATION RETRIEVAL"

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

## JASPAL SINGH SANDHU 10X17MCA79

During the academic year 2018-2019

Signature of the Guide

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

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

The Head
Department of MCA
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Signature of the Puncipal

Dr. R.V. Praveena Gowda

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

Bommanahalli, Hosur Road, Bengaluru-560 068

## **Department of Master of Computer Applications**



#### CERTIFICATE

This is to certify that the project work entitled

CALO-Cognitive Assistant: AI attempted to integrate numerous into a Cognitive Assistant

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

MOHAMED ABUL FARIZ A
10X17MCA80

During the academic year 2018-2019

Signature of the Guide

Prof. Dharamvir

(Dept. of MCA, TOCE)

Signature of the HØD

Dr. M.S. Shashidhara

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Name of Examiners

1.

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled

## GENERATION OF HANDWRITING BY ACTIVE SHAPE MODELING AND GLOBAL LOCAL APPROXIMATION (GLA) ADAPTATION

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

> NAVEEN M 10X17MCA82

During the abademic year 2018-2019

Signature of the Guide

Prof. Ashok B P

(Dept. of MCA, TOCE)

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Name of Examiners

Signatuke

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/ Med Elect

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

Dr. R. VRPrávecha Gowda The Oxford College of Engineering (Brincipals TOCE, Bengaluru)

Bengaluru-560 068.

Signature with date

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



### CERTIFICATE

This is to certify that the project work entitled

EMR-Data Visualization: A Context Signatures Improve Diagnostic Classification using **Medical server 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

> V BHAVYA NAGINI 10X17MCA87

During the academic year 2018-2019

Signature of the Guide

Prof. Ashok B P

(Dept. of MCA, TOCE)

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

The Head

Department of MCA

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

Signature of the Principal

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PIMEL: AL The Oxford College of Engineerithe Oxford College of Engineering Bommanahalli, Hosur Road Hosur Road, BANGALORE -Bengaluru-560 068.

External Viva

Name of Examiners

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Bommanahalli, Hosur Road, Bangalore-560 068

## **Department of Master of Computer Applications**



#### **CERTIFICATE**

This is to certify that the project work entitled

#### "AUTOSEC"

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

## **Master of Computer Applications**

From Visvesvaraya Technological University, Belagavi

Is a result of the bonafide work carried out by

## AKSHANSH SHRIVASTAVA

**10X17MCA88** 

During the academic year 2018-2019

Signature of the Guide Prof. Usha Sree (Dept. Of MCA, TOCE)

External Viva
Name of Examiners

Signature of the HOD

Dr. M.S. Shashidhara

(Dept of MCA, TOCE)

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The Oxford College of Engineers
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Signature of the Principal
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PRINCIPAL

The Oxford College of Engineering Bommanaballi, Hosur Road Signature William (1998), 1998

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled

## IMPORTANCE OF SMART CURIGHT MULTISPECIALTY EMERGENCY AND TRACKING 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

### BHAVYA R 10Y17MCA70

Signature of the Guide

Prof. Ashok B.P

(Dept. of MCA, TOCE)

During the academic year 2018-2019

f'the AOD Dr. M.S. Shashidhara

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. Department of MCA

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

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Dr. R.V. PR EVEENA GOWDA

PadiGIPAL

Bommanahalli, Hosur Road Bengaluru-560 068.

Signature with date

#### External Viva

Name of Examiners

1.

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled Detective Mapping Procedure with Live Substances 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

## GANESH BAJANTHRI 10Y17MCA71

During the academic year 2018-2019

Signature of the Guide

Prof. Ashok B P

(Dept. of MCA, TOCE)

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#### **External Viva**

Name of Examiners

Bosumanahalli, Hosus Road, Bengahara-560 063

Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled

A Machine Learning Based Network Sentiment Mining Model for IT-Product Sales Analysis

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

Master of Computer Applications

From Visveswaraya Technological University, Belagavi

is a result of the bonafide work carried out by

GOWTHAM A 10Y17MCA72

During the academic year 2018-2019

Signature of the Guide

Prof. Mridula Shukla

(Dept. of MCA, TOCE)

Signature of the HOD

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Signature of the Principal

Dr. R.V. Praveera Goweia

(Principal TOCE Benerham)

The Oxford 1. This The Bommanana.
Bengaluru-561 u68

Signature with date

External Viva

Name of Examiners

1.

Bommanahalli, Hosur Road, Bengaluru-560 068

## **Department of Master of Computer Applications**



#### **CERTIFICATE**

This is to certify that the project work entitled "Hexalock- A Smart Security Friend"

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

## KACHHADIYA RUCHITA BHASKARBHAI 10Y17MCA73

During the academic year 2018-2019

Signature of the Guide

Prof. Usha sree R

(Dept. of MCA, TOCE)

Signature of the NOT

Dr. M.S. Shashidhara

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#### **External Viva**

Name of Examiners

Signature with date

1.

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled "Message Queuing Using Two Users Communication Scenario through HTTP"

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

## KANCHAN KUMARI 10Y17MCA74

During the academic year 2018-2019

Signature of the Guide

Prof. J C Achutha.

(Dept. of MCA, TOCE)

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE) . The Head

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(Principal, TOCE, Bengaluru) Dr. R.W. PRAVEENA GOWDA

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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 Lunge Nodule Classification Using Artificial Crawlers And Rose Diagram, Support Vector Machine,

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

## KAVYA M V 10Y17MCA75

During the academic year 2018-2019

Prof. J C Achutha.

(Dept. of MCA, TOCE)

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE) The Head

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Hosur Road, BANGALORE -

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(Principal, TOCE, Bengaluru)

Dr. R.V. PRAVEENA GOWDA PRINCIPAL.

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

Signature with date

#### 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

"Lightweight Secure Data Sharing Scheme for Mobile 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

## KEERTHY S 10Y17MCA76

During the academic year 2018-2019

Signature of the Guide

Prof. J C Achutha.

(Dept. of MCA, TOCE)

Signatur

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

The Head

Dr. R.V. PRAVEENA COWDA PER

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

The Oxford Color.

Bommanah ...

Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengaluru)

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**External Viva** 

Name of Examiners

Signature with date

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled

"Privacy-Preserving Social Media Data Publishing For Personalized Ranking-Based 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

## **KUMARI KOMAL** 10Y17MCA77

During the academic year 2018-2019

Signature of the Guide

Prof. J C Achutha.

(Dept. of MCA, TOCE)

Dr. M.S. Shashidha

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Hosur Road, BANGALORE 6-

Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengaluru) Dr. R.V. Principal A COVIDA

Bommanagall, Honer Road Bengaluru-550 068,

**External Viva** 

Name of Examiners

Signature with date

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled

Sentimental Analysis on Tourism Using Data Mining
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

## MADHU KUMAR D 10Y17MCA78

During the academic year 2018-2019

Signature of the Guide

Prof. J C Achutha

(Dept. of MCA, TOCE)

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

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(Principal, TOCE, Bengaluru)

#### External Viva

Name of Examiners

Signature with date

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled

"Speech Emotion Detection based on Convolution Neural Network and Random

Forest"
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

### MANJUNATHA S N 10Y17MCA79

During the academic year 2018-2019

Signature of the Guide

Prof. J C Achutha.

(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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#### **External Viva**

Name of Examiners

1.

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work entitled

## "ANALYSING AND IMPROVING SALES FORCE AUTOMATION AND TICKETING SYSTEM THROUGH MOBILE APPLICATION"

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

## MOHAN P 10Y17MCA80

During the academic year 2018-2019

Mr. J C Achutha.

(Dept. of MCA, TOCE)

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE) The Head

& Department of MCA

Hosur Road, BANGALORE -

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(Principal, TOCE, Bengaluru) Dr. R.V. PRAVEENA GOWDA

PRINCIPAL.

The Oxford College of EngineerinThe Oxford College of Engineering Bommanahalli, Hosur Road Esignature with date

External Viva

Name of Examiners

Bommanatalli, Moun Road, Empalara-ind doli

Department of Master of Computer Applications



#### CERTIFICATE

र्ध्वारीयक स्टब्स एक्वेट्स और प्रतीक्त वर्ष संती

## Accurate Traffic Matrix Estimation in Both Public and Private Datacenter

#### Networks

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

## Master of Computer Applications

From Visveswaraya Technological University, Relagavi is a result of the honaride work carried out by

## NAYANA KS 10Y17MCA81

During the academic year 2018-2019

Signature of the Guide

Prof. Ushasree

(Dept of MCA TOCE)

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Signature of the HOD

Dr. M.S. Shashidhara

(Dept of MCA, TOCE)
The Head

Department of MCA
The Orders College of Engineering
Bosor Road, BANGALORE -

डिंगुक्तार अं के निर्मालक

Dr. R.V. Preveneconde

(Mirital IVE Stateshin)

יין זפר ברש יים פנטובל שרשטים. בשנה השלין השישושרת הש

Signature with date.

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Bommanahalli, Hosur Road, Bengahara-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify that the project work exaltled Monitoring System for Patients Using Multimedia for Smart 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 is a result of the bonafide work carried out by

### RENUKHA I 10Y17MCA82

During the scademic year 2018-2019

Signature of the Guide

Asst, Prof. Ushasree R

(Dept. of MCA, TOCE)

Signatule Jethe HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

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

Senature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengaluru)

Dr. R.A. PR WIFNA GOWDA

The Ovibas Commander of the Ovibas Commander of the Comma

Signature with date

## 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 " Framework for surveillance of instant messenger & social networking sites"

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

## SHOAIB J H 10Y17MCA83

During the academic year 2018-2019

Signature of the Guide

Prof. Ushasree

(Dept. of MCA, TOCE)

Dr. M.S. Shashighara

(Dept. of MCA, TOCE)

the Head

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

Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengaluru) Dr. R.V. PR. I III I GOWDA

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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

"Personalized Recommendation Combining User Interest and Social Circle"

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

## SNEHA KUMARI JHA 10Y17MCA84

During the academic year 2018-2019

Signature of the Guide

Prof. Ushasree

(Dept. of MCA, TOCE)

Signature of the YOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

Ibe Head

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the Oxford College of Engineering
Hosur Road, BANGALORE -

Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengalium) Dr. R.V. (R.V. 18 NA USW)

FAINL PAL

The Oxford wings of Engineering Bommanaray, Hosyr Road

Bengaluru-560 058

Signature with date

External Viva

Name of Examiners

1.

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### **CERTIFICATE**

This is to certify that the project work entitled

Implementation of SOS Guardian Safety Emergency for Tracking Application.

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

### SUSMITA C JUMANAL 10Y17MCA85

During the academic year 2018-2019

Signature of the Guide

Asst, Prof. Ushasree R

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Signature of the HOD

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Hosur Road, BANGALORE -

Signature of the Principal

Dr. R.V. Praveena Gowda

(Principal, TOCE, Bengaluru)

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Bommanahatlı, Fiesur Road Bengaluru-530 068.

Signature with date

#### **External Viva**

Name of Examiners

1.

Bommanahalli, Hosur Road, Bengaluru-560 068

## **Department of Master of Computer Applications**



#### **CERTIFICATE**

This is to certify that the project work entitled Leaf Disease Detection using Machine Learning

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

## VEDHA B N 10Y17MCA86

During the academic year 2018-2019

Signature of the Guide

Prof. J C Achutha.

(Dept. of MCA, TOCE)

Signature of the HOD

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The Head

Department of MCA

Signature of the Principal

Dr. R.V. PraveenaGowda

(Principal, TOCE, Bengaluru)
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Hosur Road, BANGALORE - Bernmandiani, Hasur Road

Bengalum-550 088.

External Viva

Name of Examiners

Signature with date

1.

Bommanahalli, Hosur Road, Bengaluru-560 068

## Department of Master of Computer Applications



#### CERTIFICATE

This is to certify then the project work emitted

# "SALES FORCE AUTOMATION AND TICKETING SYSTEM MANAGEMENT FOR E-COMMERCE THROUGH MOBILE APPLICATION"

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

## C YASHWANTH 10Y17MCA87

During the academic year 2018-2019

Signature of the Guide

Mrs. UshaShree R (Dept. of MCA, TOCE)

External Viva

Name of Examiners

Signature of the HOD

Dr. M.S. Shashidhara

(Dept. of MCA, TOCE)

/ The Head

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Signature of the Runcipal

Dr. R. V. Praveena Gowda

(Principal, TOCE, Bengaluru)

Dr. R.V. P

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Signature with date ad

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