

# THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bangalore – 560068

(Affiliated To Visvesvaraya Technological University, Belgaum)

## Department of Computer Science and Engineering



### CERTIFICATE

Certified that the Project work entitled “ANALYSIS AND PREDICTION OF CARDIO VASCULAR DISEASE USING MACHINE LEARNING” carried out by **RAKESH(10X16CS065), BIRENDRA NATH(10X17CS021), JEETESH (10X17CS035), MOHAMMED ASIF AHMED(10X17CS053)**, 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Prof. Florance G  
Project Guide

Dr. R. Ch. A Naidu  
H.O.D, Dept. of CSE

HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BENGALURU - 560 068

Dr. N Kannan  
Principal, TOCE

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

### External Viva

Name of the Examiners

Signature with Date

1. Dr. E. Saravane Kumar

09/08/21

2. Dr. Nirmala

**THE OXFORD COLLEGE OF ENGINEERING**

**Bommanahalli, Hosur Road, Bangalore – 560068**

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**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled “**GARBAGE AND DRAINAGE DETECTION DRONE**” carried out by ARFA TASKEEN(10X17CS015), HARSHITHA B U (10X17CS030), HARSHITHA G V (10X17CS031),KEERTHANA B (10X17CS041) , 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 2020-2021. 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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1. Dr. Nirmala

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09/08/21

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## Department of Computer Science and Engineering



### CERTIFICATE

Certified that the Project work entitled “**VIRTUAL TRIAL ROOM**” carried out by **ARUN REDDY S (10X17CS016), KARTHIC K(10X17CS040), MANOJ K (10X17CS047), MUSAVIR ARAFATH(10X17CS059)** , 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

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09/08/21

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**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the project work entitled “COVID-19 FUTURE FORECASTING USING SUPERVISED MACHINE LEARNING TECHNIQUES” carried out by Lavanya P(10X17CS042), Monisha M (10X17CS057), Mouna shree K S (10X17CS058), Vijayalakshmi (10X16CS103), 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Prof. Seema Patil**

**Project Guide**

**Dr. R.Ch A Naidu**

**Professor & H.O.D, Dept. of CSE**

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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Bommanahalli, Hosur Road  
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**Name of the Examiners**

1. Dr. E. Saravane Kumar

2. Dr. Nirmala

**Signature with Date**

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## Department of Computer Science and Engineering



### CERTIFICATE

Certified that the Project work entitled “COCO THE COOL ROBOT CAT” carried out by Anu Reddy (10X17CS012), Ayesha Sumaiya (10X17CS018), Manjunath (10X17CS046), Sumaiya Khanum S (10X17CS103), 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

*Shobha T*

Prof. Shobha T  
Project Guide

*Naidu*

Dr. R. Ch. A Naidu  
H.O.D, Dept. of CSE  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
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*Dr. N Kannan*

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Principal, TOCE  
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Bengaluru-560 068.

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Name of the Examiners

Signature with Date

1. Dr. E. Saravane Kumar

*[Signature]*

2. Dr. Nirmala

*[Signature]* 09/08/21

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**Bommanahalli, Hosur Road, Bangalore – 560068**

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**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled “**DESIGN AND IMPLEMENTATION OF AN IOT BASED FOREST MONITORING SYSTEM**” carried out by **ANJALI YADAV (10X17CS009), IBRAHIM ASKRAY (10X17CS033), MAJID MOHIDEEN R (10X17CS045), MERIN PHILIP (10X17CS051)**, 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Prof. Jesy Janet Kumari**  
**Project Guide**

**Dr. R. Ch. A Naidu**  
**H.O.D, Dept. of CSE**

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**Bengaluru-560 068.**

**External Viva**

**Name of the Examiners**

**Signature with Date**

1. Dr. Nirmala

NS

2. Dr. E. Saravane Kumar

9/8/2021

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**Bommanahalli, Hosur Road, Bangalore – 560068**

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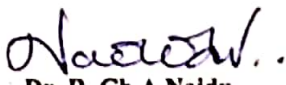
**Department of Computer Science and Engineering**

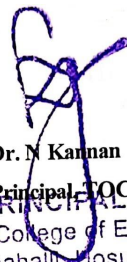


**CERTIFICATE**

Certified that the project phase-II work entitled “CRASH ARMOR FOR INDIAN SOLDIERS BASED ON IoT AND EMBEDDED SYSTEM” carried out by Kajal S(10X17CS038), K N Nikhith (10X17CS036), Akshay V(10X17CS002), Ali Ansari(10X17CS011), 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 2020-2021. The project phase-II report has been approved as it satisfies the academic requirements in respect of project phase-II work prescribed for the said degree.

  
**Ms. Jesy Janet Kumari J**  
Project Guide

  
**Dr. R. Ch A Naidu**  
Professor & H.O.D, Dept. of CSE  
HEAD OF THE DEPARTMENT  
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**Dr. N Kannan**  
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Bangaluru-560 068.

**Name of the Examiners**

1. Dr. E. Saravane Kumar

2. Dr. Nirmala

**Signature with Date**

 9/8/2021



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**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled “**IOT BASED SURVEILLANCE CAR**” carried out by ANIL S (10X17CS008), ANKITA SAHA (10X17CS010), MUSKAN M (10X17CS060), MOHITH P REDDY (10X17CS055), 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Dr. E Saravana Kumar**  
**Project Guide**

**Dr. R. Ch. A Naidu**  
**H.O.D, Dept. of CSE**

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**Bengaluru-560 068.**

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**Name of the Examiners**

**Signature with Date**

1. Dr. Nirmala

2. Dr. E. Saravane Kumar

  
9/8/2021



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**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled **“WEB DATA MINING FOR TERRORISM ANALYSIS”** carried out by **ANANYA J (10X17CS007), HARPREET KAUR (10X17CS029), MAHESH M S (10X17CS044), MAYANK RAWAT (10X17CS048)**, 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Dr. Senthil kumar**  
**Project Guide**

**Dr. R. Ch. A Naidu**  
**H.O.D, Dept. of CSE**

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**Name of the Examiners**

**Signature with Date**

1. Dr. Nirmala

2. Dr. E. Saravane Kumar

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**Bommanahalli, Hosur Road, Bangalore – 560068**  
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**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled “Sun Tracking Solar Panel” carried out by **SAGARIKA PRASAD SENJI (10X16CS073), DEEPIKA S (10X16CS024), ZAIBA BEGUM(10X14CS115), DONAPPA REDDY KV(10X16CS024)** 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 2019-2020. The Project Phase-I report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

*T.Ch.*

**Prof. Gayathri T**  
**Project Guide**

*Naidu..*

**Dr. R. Ch. A Naidu**  
**Prof & H.O.D, Dept. of CSE**

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**BANGALURU-560068**  
**External Viva**

*[Signature]*

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

**Name of the Examiners**

1. Sowmya H:k
2. Seema Patil

**Signature with Date**

*[Signature]* 10-08-2021  
*[Signature]*

**THE OXFORD COLLEGE OF ENGINEERING**  
**Bommanahalli, Hosur Road, Bangalore – 560068**  
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**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled “ROAD TRAFFIC SIGN DETECTION SYSTEM USING IOT AND DEEP LEARNING” carried out by ABHINANDAN M (10X17CS001), AMIT A JADHAV (10X17CS005), GANAPATI RAMACHANDRA HEGDE (10X17CS26), GANESH SHETTY K (10X17CS027) 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 2020-2021. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

*Sowmya H K*

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

*Naidu*

**Dr. R. Ch. A Naidu**  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
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**BANGALURU - 560 068**

*Dr. N Kannan*

**Dr. N Kannan**  
**Principal, OCE**

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

**Name of the Examiners**

- SHOBHA . T
- Seema Patil

**Signature with Date**

*Shobha . T*  
*Patil* 9/8/2021

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**Bommanahalli, Hosur Road, Bangalore – 560068**

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**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled “**DETECTING STEGANOGRAPHY IN IMAGES USING CNN**” carried out by **ARATHI K L (10X17CS014), BRINDA NAGARAJ POOJARY(10X17CS022), DHANUSHA C (10X17CS023), INCHARA K J (10X17CS034)**, 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

*Shobha . T*

**Prof. SHOBHA T**  
**Project Guide**

*Naidu..*

**Dr. R. Ch. A Naidu**  
**H.O.D, Dept. of CSE**

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**BENGALURU - 560 068**

*[Signature]*

**PRINCIPAL**  
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**Bommanahalli, Hosur Road**  
**Bengaluru-560 068.**

**External Viva**

**Name of the Examiners**

**Signature with Date**

1. Seema Patil

*Seema* 09/08/21

2. SHOBHA . T

*Shobha . T*


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**Department of Computer Science and Engineering**




**CERTIFICATE**

Certified that the Project work entitled “**COVID-19 PREDICTOR AND IMPACT ANALYZER APP**” carried out by **AKASH S CHAMBIAL (10X17CS002), AQUWIN THOMAS P (10X17CS013), BETHEL M VARGHESE (10X17CS020), ROSHINI P (10X17CS080)** 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 2020-2021. The Project Phase-II report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
**Dr. E. Saravana Kumar**  
Project Guide

  
**Dr. R. Ch. A Naidu**  
Prof & H.O.D, Dept. of CSE  
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**Name of the Examiners**

1. SHOBHA . T
2. Seema Patil

**Signature with Date**

Shobha . T  
09/08/21

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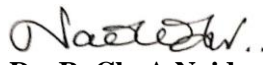
(Affiliated To Visvesvaraya Technological University, Belgaum)

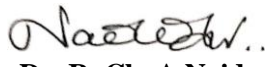
## Department of Computer Science and Engineering



### CERTIFICATE

Certified that the Project work entitled “**MACHINE LEARNING TECHNIQUES TO IDENTIFY CERVICAL CANCER AT EARLY STAGES**” carried out by SHRILAKSHMI H NAYAK (10X17CS094), VARSHA N (10X17CS107), VEDIKA KABRA (10X17CS110), SHRADHA M NAGARALE (10X17CS093), 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
Dr. R. Ch. A Naidu  
Project Guide

  
Dr. R. Ch. A Naidu  
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#### External Viva



PRINCIPAL  
The Oxford College of Engineering  
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Name of the Examiners

Signature with Date

1. SHOBHA . T

Shobha . T 09/08/21

2. Seema Patil

Seema

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## Department of Computer Science and Engineering



### CERTIFICATE

Certified that the Project work entitled “**MACHINE LEARNING TECHNIQUES TO IDENTIFY SKIN CANCER AT EARLY STAGES**” carried out by NIDHI SURESH BADNAL (10X17CS064), VINODHINI S (10X17CS081), SANDHYA V (10X17CS086), SOMAGUTTA SAI BHARGAVI (10X17CS097), 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Prof. Seema Patil  
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Signature with Date

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Shobha . T 09/08/21

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Seema Patil

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(Affiliated To Visvesvaraya Technological University, Belgaum)

## Department of Computer Science and Engineering



### CERTIFICATE

Certified that the project phase-II work entitled “EARLY DETECTION OF LUNG CANCER” carried out by Ravi Kumawat(10X17CS079), Sougandhika B K (10X17CS098), Spoorthi Rao N M(10X17CS100), Umme Hani S(10X17CS105), 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 2020-2021. The project phase-II report has been approved as it satisfies the academic requirements in respect of project phase-II work prescribed for the said degree.

Dr. E. Saravana Kumar  
Project Guide

Dr. R. Ch A Naidu  
Professor & H.O.D, Dept. of CSE

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2. SHOBHA.T

Signature with Date

Shobha.T 09/08/21

Shobha.T



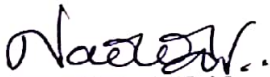
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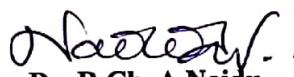
(Approved by AICTE, New Delhi, Accredited by NBA, NAAC, New Delhi & Affiliated to VTU, Belagavi)




**CERTIFICATE**

Certified that the Project work entitled "LUNG CANCER DETECTION USING DEEP LEARNING" carried out by PRASANNA GANAPATHI S (10X17CS069), RAHUL AVABRATH (10X17CS075), SAHANA R K (10X17CS083), TUSHA M (10X17CS104), 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 2020-2021. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
Dr. R.Ch. A Naidu  
Project Guide

  
Dr. R.Ch. A Naidu  
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Shobha.T 9/8/2021

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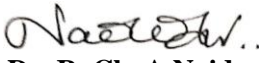
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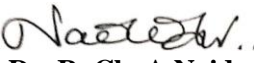
## Department of Computer Science and Engineering




### CERTIFICATE

Certified that the Project work entitled “**MACHINE LEARNING TECHNIQUES TO IDENTIFY BREAST CANCER AT EARLY STAGES**” carried out by NILAY HIRPARA(10X17CS065), SHIVANGI ARUL (10X17CS092), NAVNIT KUMAR (10X17CS063), SANTHOSH C P (10X17CS088), 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
Dr. R. Ch. A Naidu  
Project Guide

  
Dr. R. Ch. A Naidu  
H.O.D, Dept. of CSE  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BENGALURU - 560 068

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

### External Viva

Name of the Examiners

Signature with Date

1. Seema Patil

Ravi 9/8/2021

2. SHOBHA.T

Shobha.T

**THE OXFORD COLLEGE OF ENGINEERING**

**Bommanahalli, Hosur Road, Bangalore – 560068**

**(Affiliated To Visvesvaraya Technological University, Belgaum)**

**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled “**MACHINE LEARNNG AND DEEP LEARNING TO IDENTIFY DOCTOR’S PRESCRIPTION** ” carried out by RACHANA RAO(10X17CS074), SHARANYA PRADEEP(10X17CS091), ABDUL JABBAR ZAID (10X16CS002), JAY KUMAR RYAN(10X15CS041), 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Dr. Senthil kumar R**  
**Project Guide**

**Dr. R. Ch. A Naidu**  
**H.O.D, Dept. of CSE**

**HEAD OF THE DEPARTMENT**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**THE OXFORD COLLEGE OF ENGINEERING**  
**BENGALURU - 560 068**

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

**External Viva**

**Name of the Examiners**

**Signature with Date**

1. Seema Patil

B. Naidu

2. SHOBHA . T

Shobha . T 09/08/21

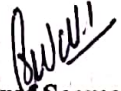
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**THE OXFORD COLLEGE OF ENGINEERING**  
**Hosur Road, Bommanahalli, Bangalore-560068**

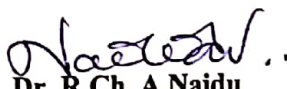
(Approved by AICTE, New Delhi, Accredited by NBA, NAAC, New Delhi & Affiliated to VTU, Belagavi)




**CERTIFICATE**

Certified that the Project work entitled "BONE CANCER DETECTION USING MACHINE LEARNING" carried out by NARISEPALLI KRISHNACHAITHANYA (10X17CS061), PALLAVI G (10X17CS067), SAMUDRALA SIVA DEEPAK KUMAR (10X17CS085), SHAIK MAHAMMAD MANSOOR (10X17CS090), 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 2020-2021. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
Prof Seema Patil  
Project Guide

  
Dr. R.Ch. A Naidu  
Prof & H.O.D, Dept. of CSE  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BENGALURU - 560 068  
External Viva

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

**Name of the Examiners**

1. SHOBHA . T
2. DR. BUDDESAB

**Signature with Date**

Shobha . T .10-08-2021  
Dr. Buddesab

**THE OXFORD COLLEGE OF ENGINEERING**

**Bommanahalli, Hosur Road, Bangalore – 560068**

**(Affiliated To Visvesvaraya Technological University, Belgaum)**

**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled “**ASSISTIVE DEVICE FOR BLIND, DEAF AND DUMB PEOPLE USING RASPBERRY PI** ” carried out by RAHUL G N (10X17CS076), NITHISH K T(10X18CS402), VANITHA L T (10X17CS106) , SINDHU L S (10X17CS095), 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Prof. Sushma T**  
**Project Guide**

**Dr. R. Ch. A Naidu**  
**H.O.D, Dept. of CSE**

**HEAD OF THE DEPARTMENT**  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BENGALURU - 560 068

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

**External Viva**

**Name of the Examiners**

**Signature with Date**

1. Dr. BUDDESAB

2. SHOBHA . T

Shobha . T / 10/8/21

# THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bangalore – 560068

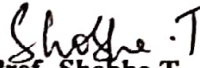
(Affiliated To Visvesvaraya Technological University, Belgaum)

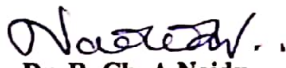
## Department of Computer Science and Engineering



### CERTIFICATE

Certified that the Project work entitled "SMART RESCUE AND SURVEILLANCE ROBOT" carried out by MEESALA SRI VARSHA (10X17CS049), PRITHVIRAJ A.S (10X17CS070), NITHIN R (10X17CS066), ERIC MATTHEW PHILIP (10X16CS027), 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 2020-2021. The Project Phase-II report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
Prof. Shobha T  
Project Guide


  
Dr. R. Ch. A Naidu  
Prof & H.O.D, Dept. of CSE  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
External Viva

  
Dr. N Kannan  
Principal, COCE  
PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangaluru-560 068.

#### Name of the Examiners

1. SHOBHA.T
2. DR. BUDDESAB

#### Signature with Date

Shobha.T 10/8/21  


**THE OXFORD COLLEGE OF ENGINEERING**

**Bommanahalli, Hosur Road, Bangalore – 560068**

**(Affiliated To Visvesvaraya Technological University, Belgaum)**

**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled “**CHRONICAL KIDNEY DISEASE DETECTION USING ML**” carried out by PRANAV BADGAL (10X17CS068), PRIYOTOSH DEY (10X17CS071), QAZI TASAWUR (10X17CS072), SOUMYADEEP BHOWMICK (10X17CS072), 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Dr. Senthil Kumar R**  
Project Guide

**Dr. R. Ch. A Naidu**  
H.O.D, Dept. of CSE

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

**External Viva**

**Name of the Examiners**

**Signature with Date**

1. SHOBHA . T

Shobha . T 10-08-2021

2. DR. BUDESAB

Budesab

**Department of Computer Science and Engineering**

**THE OXFORD COLLEGE OF ENGINEERING**

**Bommanahalli, Hosur Road, Bangalore – 560068**

**(Affiliated To Visvesvaraya Technological University, Belgaum)**



**CERTIFICATE**

Certified that the project work entitled “CROP YIELD PREDICTION USING MACHINE LEARNING BASED ON INDIAN AGRICULTURE” carried out by Tanzil B Melat (10X15CS115), Febin V Mathew (10X15CS028), Zahid Ahmad Dar (10X17CS112) and Sagar N(10X17CS082) 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 2020-2021. The Final Project Report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Ms. Jesy Janet Kumari J**  
**Project Guide**

**Dr. R. Ch. A Naidu**  
**H.O.D, Dept. of CSE**  
**HEAD OF THE DEPARTMENT**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**THE OXFORD COLLEGE OF ENGINEERING**  
**BANGALURU - 560 068**  
**External Viva**

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

**Name of the Examiners**

1. SHOBHA . T

2. DR. BUDDESAB

**Signature with Date**

Shobha . T 10-08-2021

[Signature]



**THE OXFORD COLLEGE OF ENGINEERING**

**Bommanahalli, Hosur Road, Bangalore – 560068**

**(Affiliated To Visvesvaraya Technological University, Belgaum)**

**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled “**MEDIA FORENSIC AND DEEP FAKES**” carried out by **APEKSHA V (10X16CS011), MONICA S (10X16CS051), DHINAKARAN V (10X16CS025)** 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 2020-2021. The Project Phase-I report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

*Punitha*  
17/08/2021  
**Prof. Punitha M R**  
Project Guide

*Naidu*  
17/8  
**Dr. R. Ch. A Naidu**  
Prof & H.O.D, Dept. of CSE

*[Signature]*  
**PRINCIPAL**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

**External Viva**

**Name of the Examiners**

1. *Seema Patil* \_\_\_\_\_
2. *Sowmya H.K* \_\_\_\_\_

**Signature with Date**

*[Signature]* -10-08-2021-  
*[Signature]* \_\_\_\_\_

**THE OXFORD COLLEGE OF ENGINEERING**  
**Bommanahalli, Hosur Road, Bangalore – 560068**  
(Affiliated To Visvesvaraya Technological University, Belgaum)

**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the Project work entitled **“CONVOLUTION NEURAL NETWORK BASED SELF DRIVING CAR”** carried out by **SHARATH CHANDRA REDDY (10X16CS028), KOUSHIK KM (10X16CS039), RAHUL V (10X17CS077), VARUN RAJ P (10X17CS109)** 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 2020-2021. The Project Phase-II report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

*Sowmya H K*

**Prof. Sowmya H K**  
Project Guide

*Naldur*

**Dr. R. Ch. A Naldu**  
Prof & H.O.D, Dept. of CSE  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BENGALURU - 560 068

**External Viva**

*Dr. N Kannan*

**Dr. N Kannan**  
Principal, OCE  
PRINCIPAL

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

**Name of the Examiners**

1. SHOBHA . T
2. DR. BUDDESAB

**Signature with Date**

Shobha . T 10/8/21  
*Shobha*

**THE OXFORD COLLEGE OF ENGINEERING**  
**Bommanahalli, Hosur Road, Bangalore – 560068**  
(Affiliated To Visvesvaraya Technological University, Belgaum)


**Department of Computer Science and Engineering**




**CERTIFICATE**

Certified that the Project work entitled “**CLASSIFICATION OF SCHIZOPHRENIC AND NON - SCHIZOPHRENIC CONTROLS WITH IMPROVED ACCURACY**” carried out by ANUSH MEHDI (10X16CS009), SHER SINGH (10X16CS081), SAKARAY GOWTHAM (10X16CS074), 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 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
Prof. Florance G  
Project Guide

  
Dr. R. Ch. A Naidu  
H.O.D, Dept. of CSE

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

**External Viva**

**Name of the Examiners**

**Signature with Date**

1. DR. BUDDESAB



2. SHOBHA.T

Shobha.T 10/8/21

**THE OXFORD COLLEGE OF ENGINEERING**

**Bommanahalli, Hosur Road, Bangalore – 560068**

**(Affiliated to Visvesvaraya Technological University, Belgaum)**

**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the project work entitled “**BRAIN TUMOR DETECTION AND CLASSIFICATION SYSTEM**” carried out by **Yaseer Tasleem (10X16CS108)**, **Madhusudan Nagal (10X17CS043)**, **Chandrakala A(10X18CS400)**, **Harshitha N (10X18CS401)** 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 2020-2021. The main project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Rekha Poral**

**Assistant Professor, CSE**

**Dr. R. Ch. A Naidu**

**H.O.D, Dept. of CSE**

**Dr. N Kannan**

**Principal, OCE**

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

**External Viva**

**Name of the Examiners**

1. Dr. BUDDESA B

2. SHOBHA T

**Signature with Date**

Shobha T 10-08-2021

# THE OXFORD COLLEGE OF ENGINEERING

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 COLD STORAGE SYSTEM”** carried out by M.A VENKATAKRISHNAN(10X17IS063), VINAYAK SHREEKANT HEGDE(10X17IS064), YOGESH KUMAR SINGH(10X17IS066) and PRAVEEN KUMAR Y.N(10X16IS066) 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 **2020-2021**. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Ms. Kalaiselvi S  
Assistant Professor,  
Dept. of ISE.

Dr. R. Kanagavalli  
PROFESSOR & HOD-ISE  
The Oxford College Of Engineering  
Bommanahalli, Hosur Road,  
Bengaluru - 560 068.  
Dept. of ISE

Dr. Kannan N  
Principal,  
TOCE

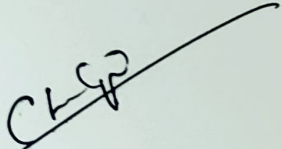
PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.


**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE**  
(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)  
Department of Information Science and Engineering




**CERTIFICATE**

Certified that the seminar entitled "Fingerspelling- A sign language learning tool" has been carried out by Mayank Negi(10X17IS028), Vinay Madhusudhan (10X16IS115), Deepak (10X17IS012) and Santhosh Kumar (10X17IS051) bonafide student 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 2020-2021. 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 seminar work.

  
Mr. Channappa Gowda D V  
Assistant Professor  
Department of ISE

  
Prof Dr. R. Kanagavalli  
Head of Department  
Department of ISE

**Dr. R. KANAGAVALLI**  
**PROFESSOR & HOD-ISE**  
**The Oxford College Of Engineering**  
**Bommanahalli, Hosur Main Road**  
**Bangalore 560 068.**

  
Dr. N. Kannan  
Principal  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560068

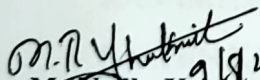
(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering

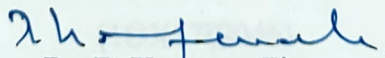


## CERTIFICATE

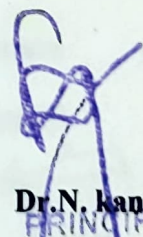
Certified that the project work entitled "Emergency System in Ambulance to Control Traffic Signals and vehicle detect using IoT" carried out by RASHMITHA POOJARI (10X17IS044), SACHIN K S (10X17IS046) and SAMHITHA VEERU N (10X17IS048), bonafide students of The Oxford College Of Engineering, Bengaluru 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 2020-2021. 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. Yadhu Krishna M.R

Asst. Professor

  
Dr. R. Kanagavalli

**Dr. R. KANAGAVALLI**  
PROFESSOR & HOD-ISE  
The Oxford College Of Engineering,  
Bommanahalli, Hosur Main Road,  
Bangalore 560 068.



Dr. N. Kannan

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


**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE**

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

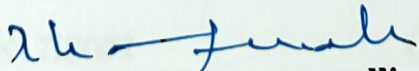


**CERTIFICATE**


Certificate that the project work entitled "Application for real time Traffic sign recognition on Indian roads" carried out by Adigouni Saketh(10X17IS002), Bhavya N M(10X17IS008), Chittipalla Sirisha(10X17IS011), Kulwant Raj Kisku(10X17IS019) bonafide 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 2020-2021. 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. P Kokila

Assistant Professor  
Department of ISE, TOCE

  
Prof Dr. R. Kanagavalli

Head of Department  
Dr. R. KANAGAVALLI  
Department of ISE, TOCE  
The Oxford College Of Engineering  
Bommanahalli, Hosur Main Road,  
Bangalore 560 068.

  
Dr. N Kannan  
Principal

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



# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



## CERTIFICATE

Certified that the project work entitled “ **IOT BASED MULTIPURPOSE AGRIBOT WITH FIELD MONITORING SYSTEM** ”carried out by **DHARINI L (10X17IS013)**, **NIDHISHODH D S (10X17IS035)**, **SWATHI G (10X16IS107)**, **S BHAVYA (10X16IS120)**, 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 **2020-2021**. 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. Madhusmita Mishra**

**Assistant Professor**

**Dr. R. Kanagavalli**

**Dr. R. KANAGAVALLI**  
**Professor & Head**

**The Oxford College Of Engineering**  
**Bommanahalli, Hosur Main Road,**  
**Bangalore 560 068.**

**Dr. N. N. Kannan**

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

# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum)

Department of Information Science and Engineering



## CERTIFICATE

Certified that the project work entitled “**IOT based Automated Greenhouse**” carried out by **PUNEET NANDAN JHA (10X17IS038)**, **SYED KHADEER (10X17IS060)**, **SYEDA MISBAH BANU (10X17IS062)**, bonafide 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 **2020-2021**. 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

Project Guide

Dr. R. Kanagavalli

H.O.D, Dept. of ISE

Dr. N Kannan

Principal, TOCE

**PRINCIPAL**  
**Dr. R. KANAGAVALLI**  
**PROFESSOR & HOD-ISE**  
The Oxford College Of Engineering  
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Bengaluru-560 068.  
Bangalore 560 068.

# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560068

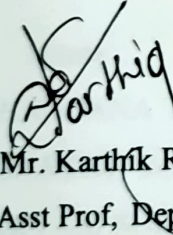
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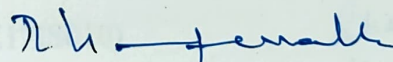
Department of Information Science and Engineering




## CERTIFICATE

Certified that the project work entitled "CAMOUFLAGE ARMY ROBOT" carried out by CHANDANA T(10X17IS010), KEERTHI RAJ SR(10X17IS018), SHIVAM SHARMA (10X17IS067) bonafide 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 2020-2021. 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 Raj S L  
Asst Prof, Dept of ISE

  
Dr. R. Kanagavalli  
Dr. R. KANAGAVALLI  
Professor & Head  
of Department  
The Oxford College of Engineering  
Bommanahalli, Hosur Main Road  
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Dr. N. Kannan  
Principal

PRINCIPAL  
The Oxford College of Engineering  
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Bengaluru-560 068.

# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560068

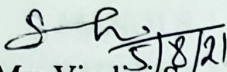
(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering

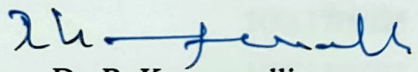


## CERTIFICATE

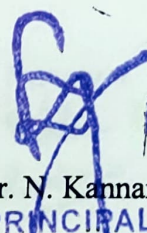
Certified that project work entitled “CONDITION MONITORING USING IIOT FOR PREDECTIVE MAINTAINANCE OF MACHINES” carried out by MANOJ S (10X17IS025) and RADHIKA KM (10X17IS041), bonafied students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of **Bachelor of Engineering in Information Science and Engineering** of Visvesvaraya Technological University, Belgaum during the year 2020-2021. It is certified that all corrections/suggestions indicated for Internal Assessments have been incorporated in the Report deposited in the Department Library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
Mrs. Visalini S

Asst. Professor

  
Dr. R. Kanagavalli

Professor & Head of dept.  
Dr. R. KANAGAVALLI  
ISE  
PROFESSOR & HOD-ISE  
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Dr. N. Kannan  
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# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



## CERTIFICATE

Certified that the project work entitled " IOT BASED MULTIPURPOSE AGRIBOT WITH FIELD MONITORING SYSTEM " carried out by DHARINI L (IOX17IS013), NIDHISHODH D S (IOX17IS035), SWATHI G (IOX16IS107), S BHAVYA (IOX16IS120), 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 2020-2021. 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. Madhusmita Mishra

Assistant Professor

Dr. R. Kanagavalli

Dr. R. KANAGAVALLI  
PROFESSOR & HEAD  
The Oxford College Of Engineering  
Bommanahalli, Hosur Rd,  
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Dr. N. Kannan

Principal, IOE  
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# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



## CERTIFICATE

Certified that the project work entitled “**Detection of Enemy and predict the direction of gunshot using IOT and Image Processing**” carried out by **Chaitra B U (10X17IS009)**, **Manasa B R (10X17IS022)**, **Meghana Chandra (10X17IS029)** and **Pooja K (10X17IS036)**, bonfire 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 **2020-2021**. 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. Geetha Rani*  
Ms. Geetha Rani  
6/8/21

Asst. Professor

*Dr. R. Kanagavalli*  
Dr. R. Kanagavalli

Professor & Head  
Dr. R. KANAGAVALLI  
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*Dr. N Kannan*  
Dr. N Kannan  
Principal  
PRINCIPAL

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# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560068

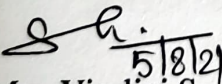
(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)


Department of Information Science and Engineering




## CERTIFICATE

Certified that the project work entitled "**IOT based automatic control for embedded poultry farm**" carried out by **PRATHIBA K C (10X17IS037)**, **PRERANA A (10X16IS067)**, and **SHIVATHMIKA M (10X16IS093)**, 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 **2020-2021**. 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.

  
5/8/21  
Mrs. Visalini S  
Assistant professor

  
Dr. R. Kanagavalli  
Dr. R. Kanagavalli  
Professor & Head  
PROFESSOR & HOD-ISE  
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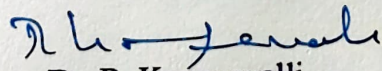
Department of Information Science and Engineering

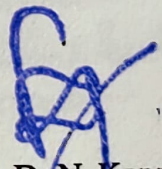


## CERTIFICATE

Certified that the project work entitled "**HUMAN DETECTING ROBOT FOR EARTH QUAKE RESCUE OPERATION USING IOT**" carried out by **ASHWINI M (10X17IS004)**, **GOPIKA M (10X17IS015)**, **MITTA RADHA SUCHETHA (10X17IS030)** and **NAMITHA MALALI N (10X17IS033)** are bonafide 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 **2020-2021**. 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  
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Professor & HOD  
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# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering

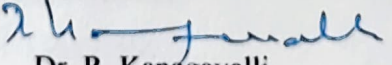


## CERTIFICATE


Certified that the project work entitled "A Safety Mining Helmet For Mine Workers And Future Danger Alert Using ML" carried out by **MARIYAM TANAZ (10X17IS026)**, **YASHASWINI P (10X17IS065)**, **KEERTHANA R (10X16IS041)**, bonafide 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 **2020-2021**. 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. Amaresha,

Asst Professor,  
Dept. of ISE.

  
Dr. R. Kanagavalli,

**DR. R. KANAGAVALLI**  
**PROFESSOR & HOD-ISE**  
**Dept. of ISE**  
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Dr N Kannan,  
Principal,

**PRINCIPAL**  
**TOCE**  
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# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



## CERTIFICATE

Certified that the project work entitled "Artificial Intelligence Based Child Safety Band" carried out by Amit Choudhary (10X16IS014), Shivam Mundhra(10X16IS092) and Purushottam P(10X17IS039) 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 2020-2021. 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. Indu K S

Asst. Professor dept of ISE

Dr. R. Kanagavalli

Dr. R. KANAGAVALLI  
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Professor & Head

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Dr N Kannan

PRINCIPAL  
Principal

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# THE OXFORD COLLEGE OF ENGINEERING

BANGALORE

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



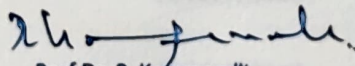
CERTIFICATE

This is to certify that the seminar entitled "IOT BASED TRAFFIC SIGN DETECTION AND VIOLATION CONTROL" is a bonafede work carried out by **BASAVARAJ METRE(10X17IS006)**, **RAKESH(10X17IS042)**, **SAYEESH CHUDAMANI NAIK(10X17IS052)**, **SHUKIL R(10X17IS055)** in fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2020-2021. The Seminar report has been approved as it satisfies the academic requirements in respect of work prescribed for Bachelor of Engineering.

  
Dr. Vanajaraselin E Chirchi

**Professor**

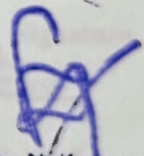
**Department of ISE**

  
Prof Dr. R. Kanagavalli

**Head of Department**

**Department of ISE**

**Dr. R. KANAGAVALLI**  
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Dr. N. Kannan

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# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Information Science and Engineering



## CERTIFICATE

Certified that the project work entitled “**Design and development of lake cleaning machine using Artificial Intelligence**” carried out by **LATEEFULLA KHAN (10X17IS020)**, **LEANDER JOSEPH (10X17IS021)**, **MANISHA M SHAJU (10X17IS023)** and **MOHAMMED ABDUL BASITH (10X17IS031)**, 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 **2020-2021**. 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. Yadhukrishna M R

Assistant Professor

Dept. of ISE

Dr. R. Kanagavalli

Dr. R. KANAGAVALLI

Professor & HOD

The Oxford College Of Engineering

Dept. of ISE

Bommanahalli, Hosur

Bengaluru

Dr. N. Kamman

Principal

PRINCIPAL

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Bengaluru-560 068.

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

**Department Electrical & Electronics of Engineering**



**CERTIFICATE**

Certified that the Project work entitled "BULLET PROOF JACKET WITH GUN SHOT DETECTION TECHNOLOGY" carried out by ABHISHEK V (10X17EE003), AFRIEN NAZIR (10X17EE004), ANMOL HR (10X17EE013), DHRUVA D L(10X17EE019), 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 2020-21. 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.

*B. Devi*  
*N. Jaykumar*  
07/08/21

Signature of the Guide  
Dr. B Devi Vighneshwari  
& Mr. JAYKUMAR N

*S. V. S. Bharath*  
09/08/21

Professor & Head  
Signature of the HOD  
The Oxford College of Engineering  
Dr. V. S. BHARATH  
Bommanahalli, Hosur Road  
Bangalore-560 068

*N. Kannan*

PRINCIPAL  
Signature of the Principal  
Dr. N. Kannan  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

Examiners:

1. B. Devi Vighneshwari
2. Nisha. C. Rani

*Nisha C. Rani*  
09/08/21

Nisha. C. Rani  
9/8/21

**THE OXFORD COLLEGE OF ENGINEERING**  
**Hosur Road, Bommanahalli, Bangalore-560068**  
**(Affiliated in VTU and approved by AICTE Accredited by NAAC and NBA)**  
**Department of Electrical and Electronics Engineering**



**CERTIFICATE**

Certified that the Project work entitled **“WIRELESS POWER TRANSMISSION FOR ELECTRIC VEHICLE BATTERIES USING INDUCTIVE COUPLING”** carried out by **PAVAN M (10X16EE044), H LIANZAMUANA (10X17EE022), JANARTHANAN R (10X17EE025), LINGALA CHANDRA SEKHAR REDDY (10X17EE031)**, a bonafide students of **The Oxford College of Engineering, Bangalore** in partial fulfilment for the award of degree of **Bachelor of Engineering in Electrical & Electronics Engineering of Visvesvaraya Technological University, Belagavi** during the academic year **2020-21**. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Project work has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of the Guide  
**Mrs.MANJUSHREE  
KUMARI J**

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

Signature of the HOD  
**Dr. V.S.BHARATH**

Signature of the Principal  
**Dr. N.KANNAN**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangaluru-560 068.

Name of the Examiners:

1. **B. Devi Vigneshwari**
2. **Nisha C. Rami**

Signature with dates:

**B. Devi Vigneshwari**  
09/8/21  
  
**Nisha C. Rami**  
9/8/21

# THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560 068

(Affiliated to VTU and approved by AICTE)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2020 - 2021

## CERTIFICATE

This is to certify that the Project entitled "THE PROSPECTIVITY OF BIOSENSING IN ENVIRONMENTAL MONITORING FOR BIOSECURITY" is a bonafide work carried out by Aadil Bashir,(10X17EE001) Harshitha MR(10X17EE023) , Ivana Merlin B(10X17EE024) and Kavya GS(10X17EE027), in partial fulfilment of seminar in the 8<sup>th</sup> 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 2020-2021. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The Project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Signature of Guide

Dr.B.Devi Vigneshwari

Dept.of EEE,TOCE

Signature of NOB

Dr. BHARATH V S

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

Signature of Principal

Dr N.KANNAN

Principal, TOCE

PRINCIPAL

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

1. B. Devi Vigneshwari
2. Nisha. C. Rami

Nisha C. Rami  
09/08/21

# THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by AICTE)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2020-2021

## CERTIFICATE

This is to certify that the Technical Project entitled **"IoT BASED SMART BILLING AND GESTURE CONTROLLED TROLLEY"** has been carried out by **K.NAGESHKUMAR ALLURKAR(10X16EE080)**, **ASHWINI H.J(10X17EE016)**, **JAYANTH .B(10X17EE026)**, **KESHAV SINGH.N(10X17EE028)** bonafide students of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfillment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** under the **Visvesvaraya Technological University, Belgavi** during the year **2020-21**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said Degree.

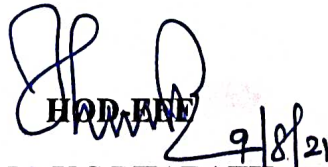
  
INTERNAL GUIDE

**Dr. V.S. BHARATH**  
Professor & Head EEE

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


**NAME OF THE EXAMINERS**

- 1) B-Devi Nighnushwan
- 2) Nisha C. Rami

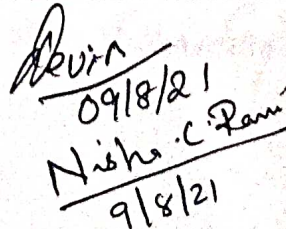
  
HOD, EEE

**Dr. V.S. BHARATH**  
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Bangalore-560 068

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

**SIGNATURE WITH DATE**

  
09/8/21  
Nisha C. Rami  
9/8/21



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BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by AICTE)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2020-2021

## CERTIFICATE

This is to certify that the Technical Project entitled **“HYBRID SMART POWER GENERATION USING VERTICAL AXIS WIND TURBINE AND SOLAR”** has been carried out by PRABHATH S(10X17EE045), RUTHIK GOWDA N(10X17EE052), MANOHARA M (10X18EE402), PREM B(10X18EE404) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering under the Visvesvaraya Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said degree.

*Nisha. C. Rani*

INTERNAL GUIDE

Mrs. NISHA C RANI

*Dr. V.S. Bharath*  
HOD-EEE  
The Oxford College of Engg.  
Bommanahalli, Hosur Road  
Bangalore-560 068

*Dr. N Kannan*  
PRINCIPAL  
Dr. N KANNAN  
PRINCIPAL

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

SIGNATURE WITH DATE

NAME OF THE EXAMINERS

- 1) B. Devi Nighreshwari
- 2) Nisha. C. Rani

*Dr. N Kannan*  
09/8/21  
*Nisha. C. Rani*

THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by Accredited by NACC and NBA)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING




2020-2021

CERTIFICATE

This is to certify that the Technical Project entitled "**ARDUINO BASED LOAD MONITORING AND OVERLOAD PROTECTION SYSTEM**" has been carried out by NAGARAJ H.S(10X17EE040), SAGAR.D(10X17EE055), SUSHMITHA.K(10X17EE068), THANUJAK.H(10X17EE069) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering under the Visvesvaraya Technological University, Belgavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said Degree.

  
INTERNAL GUIDE

Mrs. SUMITHA T. L

  
HOD-EEE  
Professor & Head, EEE  
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Bangalore-560 068

Dr. V.S. BHARATH

  
PRINCIPAL

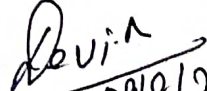
Dr. N. KANNAN

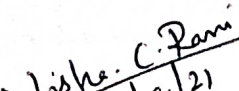
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068.

NAME OF THE EXAMINERS

- 1) B. Devi Vigneshwari
- 2) Nisha. C. Rami

SIGNATURE WITH DATE

  
09/8/21

  
9/8/21

# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bangalore-560068

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


Department Electrical & Electronics of Engineering




2020-2021

## CERTIFICATE


This is to certify that the Project work entitled “**Internet of Things (IoT) Based Intelligent Insulin Pump**” By Sheetal. A. Naik(10X17EE060), Sneha. S. Kadani (10X17EE062), Supriya. S. Kammar (10X17EE067), Vidya. K. Rathod (10X17EE071), the 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 2020-21. 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.

  
INTERNAL GUIDE

Dr. V.S. BHARATH

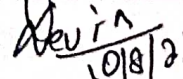
  
HOD-EEE  
The Oxford College of Engg.  
Bommanahalli, Hosur Road  
Bangalore-560 068

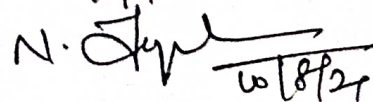
Dr. V.S. BHARATH

  
PRINCIPAL  
Dr. N. KANNAN  
PRINCIPAL

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

SIGNATURE WITH DATE

  
10/8/21

  
10/8/21

NAME OF THE EXAMINER

1. Dr. B. Devi Vigneshwari
2. JAYAKUMAR. N

# THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

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

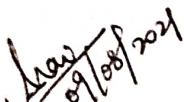
## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2020-2021

### CERTIFICATE

This is to certify that the internship entitled **"IOT BASED SMART POULTRY FARM"** is a bonafide work carried out by, **MUDUMALA VEERA BRAMHANANDA REDDY (10X17EE039), CHARAN NAG P R (10X17EE041), RACHAMREDDY RAVINDRA REDDY (10X17EE49), RAKSHITH R C (10X17EE051)** in partial fulfillment of internship in 8<sup>th</sup> 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 2020-2021. 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

Mrs. Sandhya Rai  
Assoc. professor  
Dept of EEE, TOCE

  
HOD  
Dr V S BHARATH  
Prof. of EEE, TOCE  
Dept of EEE, TOCE  
The Oxford College of Engg.  
Bommanahalli, Hosur Road  
Bangalore-560 068

  
Principal

Dr. N KANNAN  
Principal TOCE  
PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

Name of the Examiners

1)

2)

Signature with date

# THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

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

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

2020-2021



### CERTIFICATE


Certified that the Project work entitled “**PLC BASED MONITORING AND PROTECTION OF THREE PHASE INDUCTION MOTOR**” carried out by **LAXMIPRASAD (10X16EE025), ANANTHARAMA UDUPA (10X17EE010), LIKHITH R (10X17EE030), K MANIKANTAN (10X17EE032)** a bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of degree of Bachelor of Engineering in Electrical & Electronics Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2020-21. 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.

T. Sommeswari  
Signature of the Guide

Mrs. SOMESHWARI T  
Assistant professor,  
Dept. of EEE, TOCE

  
Signature of the HOD  
Professor & Head EEE

Dr. V. S. BHARATH  
The Oxford College of Engg.  
Bommanahalli, Hosur Road,  
Bangalore-560 068

  
Signature of the Principal

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

Name of the Examiners:

B. Devi Vigneshwari  
JAYAKUMAR

Signature with dates:

Devi V 10/8/21  
N. Jay 10/8/21

# THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by AICTE)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2020-2021

## CERTIFICATE

This is to certify that the Technical Project entitled **"IoT BASED TRANSFORMER PARAMETER MONITORING AND CONTROLLING SYSTEM"** has been carried out by **KEERTHI Y(10X18EE400)**, **PAVAN PRIYA(10X17EE043)**, **SAGAR (10X17EE054)**, **SHAZIYA M B(10X17EE059)** bonafide students of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfillment for the award of Bachelor of Engineering in Electrical and Electronics Engineering under the Visvesvaraya Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said degree.

*Rc R*  
10/8/21  
INTERNAL GUIDE  
Mrs. RAICHEL RUBY

*[Signature]*  
HOD-EEE  
Professor in Charge EEE  
Dr. M. S. BHARATH  
The Oxford College of Engg.  
Bommanahalli, Hosur Road  
Bangalore-560 068

*[Signature]*  
PRINCIPAL  
DIN KANNAN  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangaluru-560 068.

NAME OF THE EXAMINERS

- 1) B. Devi Vigneshwari
- 2) JAYAKUMAR. N

SIGNATURE WITH DATE

*[Signature]*  
10/8/21  
N. Jayakumar

# THE OXFORD COLLEGE OF ENGINEERING

HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068

(Affiliated to VTU and approved by AICTE)

Department of Electrical and Electronics engineering



## CERTIFICATE

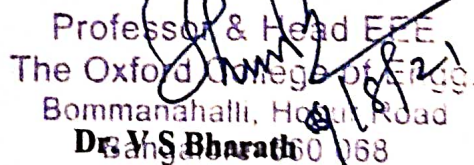
This is to certify that the project work entitled "**GSM BASED ELECTRICITY THEFT DETECTION SYSTEM**" has been carried out by "**SATHISH S (10X17EE056), SHAKIB KHAN (10X17EE057), SHASHANK K (10X17EE058), VILAS M BUIN (10X17EE072)** " bona fide students of The Oxford College Of Engineering, Bangalore in partial fulfilment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of Visvesvaraya Technological University, Belgaum during the year 2020-2021.

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.

  
09/08/2021

**Mr. Jayakumar**

Associate Professor  
Dept. of EEE, TOCE

  
Professor & Head EEE,  
The Oxford College of Engg.,  
Bommanahalli, Hosur Road  
Bangalore-560068

**Dr. N S Bharath**

HOD, EEE Dept, TOCE

  
**Dr. N Kannan**

Principal, TOCE

PRINCIPAL

The Oxford College of Engineering  
Bommanahalli, Hosur Road

**SIGNATURE WITH DATE:**

**NAME OF THE EXAMINERS:**

1. \_\_\_\_\_

2. \_\_\_\_\_

**THE OXFORD COLLEGE OF ENGINEERING**  
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 "FULLY AUTOMATED DRIVERLESS TRAIN SYSTEM" has been carried out by "AISHWARYA S P (10X17EE006), MEGHA M (10X17EE036), PREETHI P (10X17EE048), RUZAINA (10X17EE053)" 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 2020-2021.

It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project 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. S. Bharath

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

  
Dr. N Kannan

Principal, TOCE

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

Name of the Examiners:

1. \_\_\_\_\_
2. \_\_\_\_\_



# THE OXFORD COLLEGE OF ENGINEERING

HOSUR ROAD, BOMMANAHALLI, BANGALORE-560068

(Affiliated to VTU and approved by AICTE)

Department of Electrical and Electronics Engineering



## CERTIFICATE

Certified that the project work entitled "**MITIGATION OF ROADKILLS USING SENSORS AND IMAGE PROCESSING**" carried out by "**AFSHAN TASNEEM(10X17EE005), ARCHANA R S (10X17EE014), CHETAN HIREMATH (10X17EE017), POOJA UMESH (10X17EE044)**", 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 2020-2021.

It is certified that all 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.

*Nisha C Rani*  
9/8/21  
Mrs. Nisha C Rani  
Associate Professor  
Dept. of EEE, TOCE

*Dr. N Kannan*  
HOD, EEE Dept. EEE  
The Oxford College of Engg.  
Bommanahalli, Hosur Road  
Bangalore 560068

*Dr. N Kannan*  
Principal, TOCE  
PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore 560068  
SIGNATURE WITH DATE:

NAME OF THE EXAMINERS:

1. \_\_\_\_\_

2. \_\_\_\_\_

# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bangalore-560068

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

Department Electrical and Electronic of Engineering



## CERTIFICATE

Certified that the Project work entitled "MONITORING AND CONTROLLING OF SINGLE PHASE INDUCTION MOTOR USING WI-FI MODULE" carried out by ALFIYA BANU K (10X17EE008), MANJUNATH M (10X17EE033), MOHAMMED AFSAR (10X17EE037), SHRUTHI A (10X17EE061), a bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of degree of Bachelor of Engineering in Electrical & Electronics Engineering of Visvesvaraya Technological University, Belgaum during the academic year 2020-21. 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. RESNA S. R

.....  
Signature of the HOD  
Dr. V.S. BHARATH

.....  
Signature of the Principal  
Dr. N. KANNAN  
PRINCIPAL  
The Oxford College of Engineering ..  
Bommanahalli, Hosur Road  
Bangalore-560 068.

Name of the Examiners:

Bangalore-560 068

Signature with dates:

1....B....Devi....Vijghneshtwari

2....N....Jayaraman  
11/04/2021

Jayaraman

Dr  
11/04/21

# THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by AICTE)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2020-2021

## CERTIFICATE

This is to certify that the Technical Project entitled **“WIRELESS CHARGING OF ELECTRIC VEHICLES”** has been carried out by **SOURAV SHARMA( 10X17EE064), YASHAS(10X17EE073), KEERTHI KUMAR(10X16EE021), SNEHAL GIRISH(10X17EE063)** bonafide students of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfilment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** under the **Visvesvaraya Technological University, Belgaum** during the year **2020-21**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said Degree.

*PraKruthi 9/8/2021*  
INTERNAL GUIDE

Mrs. PRAKRUTHI P

*Dr. V.S. BHARATHI 9/8/21*  
HOODIA  
Professor & HOD EEE  
The Oxford College of Engg.  
Bommanahalli, Hosur Road  
Bangalore-560 068

*Dr. N. KANNAN*  
PRINCIPAL  
PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068.

SIGNATURE WITH DATE

NAME OF THE EXAMINERS

- 1)
- 2)

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2020-21

**CERTIFICATE**

This is to certify that the Project work entitled “**POWER GENERATION BY MAGLEV BASED VERTICAL AXIS WIND TURBINE**” is a bona-fide work carried out by **DIWAKAR M R (10X16EE405), RAKESH L(10X16EE051), SACHINKUMAR G (10X17EE404), RANJITHKUMAR M (10X16EE055)** in partial fulfilment for the award of in Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year 2020-2021. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The technical project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

*Anoop - H.K. 09/08/2021*

**INTERNAL GUIDE:**  
**Mr ANOOP H K**  
Assistant Professor  
Dept. of EEE, TOCE

*[Signature]*  
**HOD:**  
**Dr V S BHARATH**  
Head of Department (EEE)  
Dept. of EEE, TOCE

*[Signature]*  
**PRINCIPAL:**  
**Dr N KANNAN**  
Principal  
**PRINCIPAL**

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

**SIGNATURE OF THE EXAMINERS:**

1. \_\_\_\_\_
2. *N. Jayal*  
11/08/21

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

**Department Electrical & Electronics of Engineering**



**CERTIFICATE**

Certified that the Project work entitled "AUTO AND VOICE CONTROL HOME AUTOMATION" carried out by LAVANYA J (10X16EE024), MANJU M (10X16EE030), MUKHESH H N (10X16EE032), SWATI(10X15EE094), 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 2020-21. 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  
Ms. POORNIMA

.....  
Signature of the HOD  
Dr. V. S. BHARATH  
Professor & Head EEE  
The Oxford College of Engg.  
Bommanahalli, Hosur Road  
Bangalore-560 068

.....  
Signature of the Principal  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangaluru-560 068.

1.

2. N. J. 4/10/2021

# THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU – 560068

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



2020-2021

## CERTIFICATE

This is to certify that the Project work entitled “**Design and Development of Smart Irrigation System**” is a bona-fide work carried out by VEERENDRA (10X17EE408), PUSHPA S (10X15EE062) in partial fulfilment for the award of in Bachelor of Engineering in the course of Electrical and Electronics Engineering at The Oxford College of Engineering under Visvesvaraya Technological University, Belagavi for the year 2020-2021. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report. The technical project report has been approved as it satisfies the academic requirements for the award of Bachelor of Engineering degree.

Anoop. H.K. 10/08/2021

**Internal Guide**  
**Mr. ANOOP H K**  
Assistant professor  
Dept. of EEE, TOCE



**HOD**  
**Dr. V S BHARATH**  
Professor & Head EEE  
Head of the dept. (EEE)  
Dept. of EEE, TOCE  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068



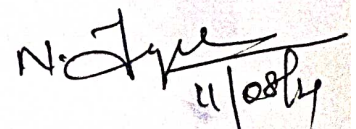
**Principal**  
**Dr. N KANNAN**  
Principal, TOCE.  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

Name of Examiners

Signature with date

1.

2. JAYAKUMAR N

  
11/08/21

THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068  
(Affiliated to VTU and approved by Accredited by NACC and NBA)  
DEPARTMENT OF MECHANICAL ENGINEERING  
2020-2021

### CERTIFICATE

This is to certify that the Technical Project entitled "DESIGN AND ANALYSIS OF INTERFERENCE FIT OF ALTERNATOR STATOR FOR MODERN AUTOMOBILES" has been carried out by KARTHIC J (10X16ME034), MOHAMMED YASEEN (10X17ME030), and MUTAHIR MUSH-TAQ (10X17ME032), TARIQ AHAMED DAR (10X18ME413) Bonafide students THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in MECHANICAL Engineering under the Visvesvaraya Technological University, Belgaum during the year 2020-21. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said Degree.

  
INTERNAL GUIDE

Mr. PRASAD H NAYAK.

Dr. G MADHUSUDAN REDDY  
PROFESSOR & HEAD  
DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-560068

Dr. KANNAN

PRINCIPAL

  
PRINCIPAL  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, HOSUR ROAD  
BENGALURU-560 068.

NAME OF THE EXAMINERS.  
DATE

1. T.V. NAGARAJA. =   
(B,08-2).

SIGNATURE WITH

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

560068

(Affiliated to VTU and approved by Accredited by NACC and NBA)

DEPARTMENT OF MECHANICAL ENGINEERING

2020-2021

**CERTIFICATE**

This is to certify that the Technical Project entitled "CHARACTERIZATION AND TRIBOLOGICAL PROPERTIES ON AL-B4-C BASED COMPOSITES FOR AEROSPACE APPLICATIONS" Has been carried out by VENKATESH INTURI (10X17ME430), MANOJ KUMAR KULARIA (10X16ME048), PRAJWAL B U (10X16ME040), MADHU SUDHAN KN (10X17ME410) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in MECHANICAL Engineering under the Visvesvaraya Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said Degree.

INTERNAL GUIDE

Mr. RAHUL D

HOD-IME

PROFESSOR & HEAD  
Dr. MADHUSUDHAN REDDY  
DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-560068

PRINCIPAL

Dr. N. KANNAN

NAME OF THE EXAMINERS

SIGNATURE WITH DATE

Dr. N. Kannan  
Principal  
The Oxford College of Engineering  
Bommanahalli, Bangalore-560068



THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by Accredited by NACC and NBA)

DEPARTMENT OF MECHANICAL ENGINEERING



2020-2021

CERTIFICATE

This is to certify that the Technical Project entitled "DESIGN AND VIBRATION ANALYSIS OF IMPELLER OF SUBMERSIBLE PUMP FOR SEPTIC TANK" has been carried out by VAMSHITH V(10X15ME096), SHANKAR NARAYAN N (10X16ME080), PAVAN M(10X17ME038), YASHWANTH K P(10X17ME072) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering under the Visvesvaraya Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said Degree.

  
INTERNAL GUIDE

Mr. SUHAS V

Dr. MAPPLESUDANA REDDY G The OXFORD COLLEGE OF ENGINEERING  
PRINCIPAL  
DEPARTMENT OF MECHANICAL ENGINEERING  
BOMMANAHALLI, HOSUR ROAD  
BANGALORE-560068.

PRINCIPAL

  
SIGNATURE WITH DATE

NAME OF THE EXAMINERS

1)

2)

**THE OXFORD COLLEGE OF ENGINEERING**

**BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068**

**(Affiliated to VTU and approved by Accredited by NACC and NBA)**

**DEPARTMENT OF MECHANICAL ENGINEERING**



**2020-2021**

**CERTIFICATE**

This is to certify that the Technical Project entitled "**DESIGN AND DEVELOPMENT OF VOICE CONTROLLED ELECTRICAL OPERATED TREE CLIMBING BIKE**" has been carried out by Shankar S (10X17ME059), Praveen G (10X17ME044), Puneeth Gajula (10X17ME46), Ribin Roy (10X17ME052) bonafide students of **The oxford college of engineering** in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** under the **Visvesvaraya Technological University, Belgaum** during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said

Degree.

*G. N. Reddy*  
**Dr. MADHU SUDANA REDDY G**  
**Professor & HOD**  
**PROFESSOR & HEAD**  
DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-560068

*N. Kannan*  
**Dr. N. KANNAN**  
**Principal**  
**PRINCIPAL**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560068.

**NAME OF THE EXAMINERS**

**SIGNATURE WITH DATE**

1)

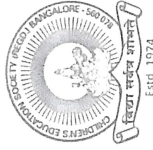
2)

# THE OXFORD COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University)

Bommanahalli, Bengaluru – 560068

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the Project work entitled “DESIGN AND FABRICATION OF ANDRIOD OPERATED WASTE COLLECTING VEHICLE FROM WATER SOURCES USING SOLAR ENERGY” carried out by SHARANABASAPPA PATIL(10X17ME060) , SHRIKANT(10X17ME062) , SRINIVAS KULKARNI(10X17ME074) , NAVEEN GB(10X16ME056) Bonafide student of THE OXFORD COLLEGE OF ENGINEERING, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technology University, Belgaum during the year 2020 – 2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the department library. The seminar report has been approved as it satisfies the academic requirement in respect of internship work prescribed for the said Degree.

Signature of Guide

Mr. VARUN K R

Signature of HOD

Dr. MADHU SUDANA REDDY G

PROFESSOR & HEAD

DEPARTMENT OF MECHANICAL ENGINEERING

THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, BANGALORE-560068

Signature of Principal

Dr. N KANNAN

PRINCIPAL

The Oxford College of Engineering

Bommanahalli, Bengaluru

Bengaluru-560068

External examiners

Signature with Date

- 1.
- 2.

THE OXFORD COLLEGE OF ENGINEERING  
HOSUR ROAD, BOMMANAHALLI , BENGALURU-560068  
(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY,  
Belagavi)

Department of Mechanical Engineering



### CERTIFICATE

This is to certify that the project work entitled "DESIGN AND FABRICATION OF CARBON DIOXIDE RECOVERY SYSTEM FOR DOMESTIC AND AUTOMOBILE APPLICATIONS" carried by Mr. MANISH CHANDRAN BM (10X17ME022), Mr. DILIP V (10X17ME013), Mr. HARSHA K (10X17ME017), and Mr. ROHITH NEPPALA (10X17ME034) bonafide student of THE OXFORD COLLEGE OF ENGINEERING, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technology University, Belagavi during the year 2020-2021.. The Project report has been approved as it satisfies the academic requirements in respect of work prescribed for Bachelor of Engineering.

  
12.06.21.

Signature of the Guide  
Prof. NAGARAJ A TV

  
Signature of the HOD  
Dr. MADHU SUDANA  
PROFESSOR & HEAD

Signature of the Principal

Dr. N.KANNAN  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-560068  
DEPARTMENT OF MECHANICAL ENGINEERING  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

NAME OF THE EXAMINER SIGNATURE WITH DATE

- 1.
- 2.

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



2020-2021

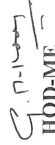
CERTIFICATE

This is to certify that the Technical Project entitled "REAL TIME PRESSURE MONITORING SYSTEM USING FBG SENSOR FOR SPORTS AND REHABILITATION APPLICATION" has been carried out by AVANISH SRIJITH(10X17ME009), MARTHANDA RAO(10X17ME027), KIRAN KS(10X17ME021), CHANDAN M (10X17ME012) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Mechanical Engineering under the Visvesvaraya Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said Degree.



INTERNAL GUIDE

Mr. ANUP M UPADHYAYA

  
HOD-ME

PRINCIPAL

Dr. MADHU SUDANA REDDY.G Dr. N. KANNAN

NAME OF THE EXAMINERS

SIGNATURE WITH DATE

1)

2)

THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by Accredited by NACC and NBA)

DEPARTMENT OF MECHANICAL ENGINEERING

2020-2021



CERTIFICATE

This is to certify that the Technical Project entitled **"THEORETICAL AND NUMERICAL PREDICTION OF VISCOUS CO-EFFICIENT OF VENTURIMETER FOR DIFFERENT BETA RATIO"** Has been carried out **RAGHAVENDRA V(10X17ME417), PRASHANTH S (10X17ME416), PRADEEP SG(10X15ME061), SUNILKUMAR UK(10X17ME426)** bonafide students of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfillment for the award of **Bachelor of Engineering in MECHANICAL Engineering** under the **Visvesvaraya Technological University, Belagavi** during the year **2020-21**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said Degree.

  
GUIDE

Mr. RANGU P

  
HOD-ME

Dr. MADHUSUDHAN REDDY

  
PRINCIPAL

Dr. NIKKANAN

PROFESSOR & HEAD The Oxford College of Engineering  
DEPARTMENT OF MECHANICAL ENGINEERING  
Bommanahalli, Hosur P  
THE OXFORD COLLEGE OF ENGINEERING Bengaluru-560 068  
BOMMANAHALLI, BANGALORE-560068

SIGNATURE WITH DATE

NAME OF THE EXAMINERS

DEPARTMENT OF MECHANICAL ENGINEERING,  
THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI,  
HOSUR ROAD, BENGALURU-560 068



CERTIFICATE

This is to certify that the internship work entitled “Synthesis and study of Microstructure & Tribiological property of Aluminum-Graphene reinforced composites.” and was involved in “Microstructure & Tribiological property of Aluminum-Graphene reinforced composites” is a bonafied work carried out by Jerome Peter B ,Manoj HM, Manoj Kumar MN and Nitin Gangathkar EB bearing USN: 10X17ME019, 10X17ME024, 10X17ME025 and 10X17ME037 in partial fulfilment of Award of Degree of Bachelor of Engineering, of Visvesvaraya Technological University, Belagavi, during the academic year 2020-2021. It is certified that all corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements associated with the degree mentioned.

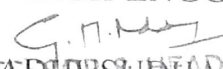
  
PROJECT GUIDE:

Prof, RAGHU K  
Assistant Professor  
(Department of  
Mechanical,  
Engineering, TOCE)

  
PRINCIPAL

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

HOD- MECH ENGG:

  
DR. MADHUSUDHAN  
REDDY  
DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALURU-560068  
HEAD OF THE DEPT  
(Department of Mechanical  
Engineering, TOCE)

# THE OXFORD COLLEGE OF ENGINEERING

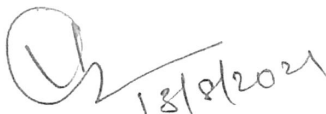
Hosur Road, Bommanahalli, Bengaluru-560068

## DEPARTMENT OF MECHANICAL ENGINEERING



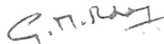
### CERTIFICATE

This is to certify that the Project work entitled “**DESIGN AND FABRICATION OF ANDROID OPERATED WATER TANK CLEANING MACHINE**”. Is an authentic record of the project work carried out by SANGAMESH (10X17ME055), SANTOSH NEMADI (10X17ME058), SRIKANT DEVATHRAJ (10X17ME064), SANGAMESH KUMAR KUDARI (10X17ME056) in partial fulfillment for the award of Bachelor of engineering in Mechanical Engineering from Visvesvaraya Technological University, Belgaum during the year 2020-2021. 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

Dr. Vidyadhar Pujar



Signature of HOD

Dr. Madhu Sudana Reddy G



Signature of principal

Dr. N Kannan

PROFESSOR & HEAD  
DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-560068

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

Examiners:

1)

2)

Signature with date



# THE OXFORD COLLEGE OF ENGINEERING

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

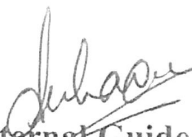
DEPARTMENT OF MECHANICAL ENGINEERING




2020-2021

## CERTIFICATE

This is to certify that Project titled "Effect of Mechanical Properties on Aluminium 2014-Graphene Reinforced Composites" is a bonafide work carried out by **Vinay V, Karthik R S, Jaykumar . Sharanagowda.** bearing USN: **10X16ME094, 10X17ME408, 10X15ME038, 10X17ME420** in partial fulfillment of Project in 8<sup>th</sup> semester, **Bachelor of Engineering in the course of Mechanical Engineering at The Oxford College of Engineering under Visvesvaraya Technological university, Belagavi** for the year **2020-2021**. 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**  
Mr. SUHAS V  
Associate professor  
Dept of ME, TOCE

  
**HOD**  
Dr. MADHUSUDAN REDDY  
Department of ME, TOCE  
**PROFESSOR & HEAD**

  
**Principal**  
Dr. N. KANNAN  
Principal, TOCE

DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-560 068  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Principal, TOCE  
Department of Mechanical Engineering  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068

Name of the examiners:

1. \_\_\_\_\_
2. \_\_\_\_\_

THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by Accredited by NACC and NBA)

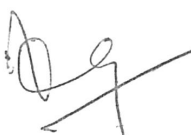
DEPARTMENT OF MECHANICAL ENGINEERING

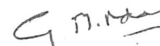



2020-2021

CERTIFICATE

This is to certify that the Technical Project entitled "**DESIGN AND ANALYSIS OF ORNITHOPTER**" has been carried out by **AKSHAY SAJI (10X17ME007), AKASH KUMAR RAUT(10X17ME006), MANU BN(10X17ME026), MANJUNATH(10X17ME023)** bonafide students of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** under the **Visvesvaraya Technological University, Belgaum** during the year **2020-21**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said Degree.

  
PROF. VINAY V  
Assistant Professor,  
Dept. of M.E.,  
TOCE,  
Bommanahalli,  
Bangalore - 560068.

  
Dr. MADHU SUDANA  
REDDY.G  
Head of Dept.  
M.E., TOCE,  
Bommanahalli,  
Bangalore - 560068

  
Dr. N. KANNAN  
PRINCIPAL  
TOCE, Bommanahalli,  
Bangalore - 560068.

PRINCIPAL  
PROFESSOR & HEAD The Oxford College of Engineering  
DEPARTMENT OF MECHANICAL ENGINEERING Bommanahalli, Hosur Road  
THE OXFORD COLLEGE OF ENGINEERING Bangalore-560 068.  
BOMMANAHALLI, BANGALORE-560068

NAME OF THE EXAMINERS

- 1) VINAY. V
- 2) Dr. Prasad. H. Nayale

SIGNATURE WITH DATE

  
.....  
  
.....

# THE OXFORD COLLEGE OF ENGINEERING

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

## Department of Mechanical Engineering

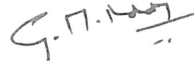


### CERTIFICATE

This is to certify that the Project work entitled “**Design & Fabrication of walking robot using Klann mechanism for wheel replacement.**” Is an authentic record of the project work carried out by **KISHORE V (10X17ME409), CHRISTIN JOJO (10X14ME016), JOEL ANIL CHACKO (10X14ME030), MOHAN KR (10X17ME412)** in partial fulfilment for the award of Bachelor of engineering in **Mechanical Engineering** from Visvesvaraya Technological University, Belgaum during the year 2020- 2021. 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.

  
14/8/21.

Signature of Guide  
**Prof. T V Nagaraj**  
Assistant Professor,  
Dept. of Mechanical Engg



Signature of HOD  
**Dr. Madhu Sudhana Reddy G**  
Professor and Head  
Department of Mechanical Engg



Signature of Principal  
**Dr. N Kannan**  
The oxford college of engg  
PRINCIPAL

**Examiners:**

1)

**PROFESSOR & HEAD**  
DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLE, BANGALORE-560068

**Signature with date**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068.

2)

# THE OXFORD COLLEGE OF ENGINEERING

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

## Department of Mechanical Engineering



### CERTIFICATE

Certified that the Project work entitled "DESIGN AND FABRICATION OF WASTE COLLECTOR CYCLE" carried out by Syed M Jaffer (10X16ME086), Zain Ahmed (10X14ME089), Akash (10X16ME103), Muthappa KP (10X16ME107), bonafide students of The Oxford College of Engineering, Bangalore in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum during the academic year 2020-21. 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  
Dr. Madhusudhan Reddy

Signature of the HOD  
Dr. Madhusudhan Reddy

PROFESSOR & HEAD

Signature of Principal  
Dr. N Kannan

PRINCIPAL

Name of the Examiners:

Signature with dates:

1. ....
2. ....

DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-560068

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

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

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY,  
Belagavi)

Department of Mechanical Engineering



### CERTIFICATE

This is to certify that the project work entitled "DESIGN AND ANALYSIS OF WING FUSELAGE ATTACHMENT OF AN AIRCRAFT " carried by ABHILASH V. (10X18ME400), SHIVARAJ M N. (10X18ME411), ANSHUMAN MISHRA (10X15ME014) and PRADEEP D S.(10X17ME415) bonafide student of THE OXFORD COLLEGE OF ENGINEERING, in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technology University, Belagavi during the year 2020-2021. The Project report has been approved as it satisfies the academic requirements in respect of work prescribed for Bachelor of Engineering.

Signature of the Guide

Prof. VINAY V

Signature of the HOD

Dr. MADHU SUDANA REDDY.G  
PROFESSOR & HEAD

DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-560068

Signature of the Principal

Dr. N KANNAN

PRINCIPAL

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

EXAMINER:

1) VINAY V

2) Dr. Prasad. H. Nayak


**THE OXFORD COLLEGE OF ENGINEERING**  
**Bommanahalli, Hosur Road, Bangalore-560068**  
**(Affiliated to Visvesvaraya Technological University, Belgavi)**  
**Department of Mechanical Engineering**



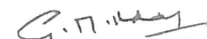
2020-2021

**CERTIFICATE**

Certified that the project entitled “**Design and Fabrication of Three Wheeled Solar Electric Vehicle**” carried out by **SAMPATH ROSHAN DSOUZA (10X17ME054), RAKSHITH VARUN A K (10X17ME051), SANTHOSH R (10X17ME057), PUNEETH R (10X17ME047)** are 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 Visvesvaraya Technological University, Belgavi** during the academic year 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.


  
.....

**Dr. Vidyadhar Pujar**  
**Asst. Prof & Guide**

  
.....

**Dr. Madhu Sudana Reddy G**

**HOD**  
**PROFESSOR & HEAD**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**THE OXFORD COLLEGE OF ENGINEERING**  
**BOMMANAHALLI, BANGALORE-560068**

  
.....

**Dr. N Kannan**  
**Principal**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068.

**Name of the Examiner:**

1. ....
2. ....

**Signature with dates:**

THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BENGALURU-560068

(Affiliated to VTU and approved by Accredited by NACC and NBA)

DEPARTMENT OF MECHANICAL ENGINEERING



2020-2021

CERTIFICATE

This is to certify that the Technical Project entitled "SYNTHESIS AND MECHANICAL PROPERTIES OF ALUMINIUM BASED METAL MATRIX COMPOSITIES" has been carried out by ABHAY PRASAN GOWDA(10X17ME001), C H SHASHIKUMAR(10X17ME011), KARAN B (10X17ME020), AVINASH S CHANDAVAR(10X17ME010) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Mechanical Engineering under the Visvesvaraya Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Project report has been approved as it satisfies the academic requirements in respect of technical Project work prescribed for the said Degree.

INTERNAL GUIDE

Dr. RAVI PRAKASH M

HOD-ME

Dr. MADHUSUDAN REDDY

Dr. N. KANNAN

PRINCIPAL

NAME OF THE EXAMINERS

- 1) Dr. Prasad. H. Nayak
- 2) Vinay. V

SIGNATURE WITH DATE

DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-560068  
Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068.

**THE OXFORD COLLEGE OF ENGINEERING**

BOMMANAHALLI, BANGALORE- 560068

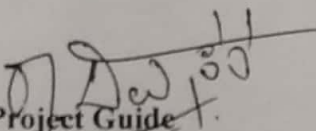
(Affiliated to VTU, Belagavi, Approved by AICTE & Accredited by NAAC & NBA New Delhi)

**DEPARTMENT OF BIOTECHNOLOGY**

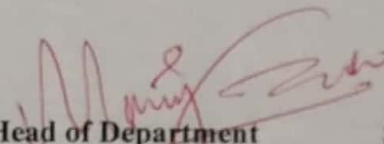


**CERTIFICATE**

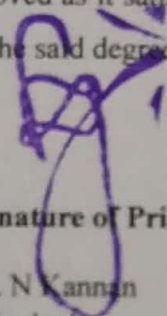
This is to certify that the phase one project entitled "Discovery of phytochemical based BTK inhibitor for treatment of immunological disorders" presented by Atul Anand Gupta (10X17BT007), Harshitha S Thodkar (10X17BT015), Krishnadev V (10X17BT021), M Purushotham Rao (10X17BT023) in partial fulfillment for the award of Bachelor of Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2020 - 2021. The phase II project has been approved as it satisfies the academic requirements in respect of phase II project prescribed for the said degree.

  
Project Guide

Mr. Divakar  
Assistant Professor  
Dept. of Biotechnology

  
Head of Department

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



Signature of Principal

Dr. N. Kannan  
Principal

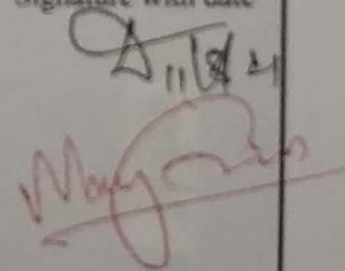
**PRINCIPAL**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068

External Viva

Name of the examiners

1. DIVAKARA A
2. DR. B. K. MANJUNATH

Signature with date



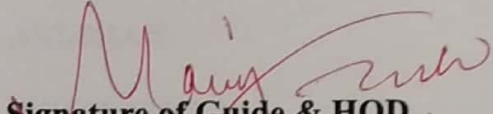


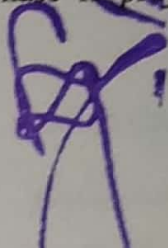
**THE OXFORD COLLEGE OF ENGINEERING**  
BOMMANAHALLI, BANGALORE- 560068  
(Affiliated to VTU, Belagavi, Approved by AICTE & Accredited by NAAC & NBA New Delhi)  
**DEPARTMENT OF BIOTECHNOLOGY**



**CERTIFICATE**

This is to certify that the phase II project entitled “**DEVELOPMENT OF NEUTRACEUTICAL FROM WITH ANTI-OXIDANT AND ANTI-CANCER PROPERTIES *Moringa oleifera* AND *Sesbania grandiflora***” presented by Anusha S (10X17BT004) and Sumalatha M (10X17BT041) in partial fulfillment for the award of Bachelor of Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2020 - 2021. The phase II project has been approved as it satisfies the academic requirements in respect of phase II project prescribed for the said degree.

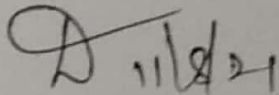
  
**Signature of Guide & HOD**  
**Dr. B.K. MANJUNATHA**  
Professor & Head  
Department of Biotechnology  
The Oxford College of Engineering  
Bengaluru-560 068.

  
**Signature of principal**  
**PRINCIPAL**  
**Dr. N. Kannan**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

External Viva

1. DIVAKARA.R
2. DR. B.K. MANJUNATHA.

Signature with date



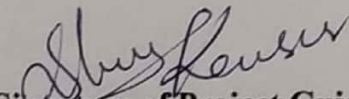


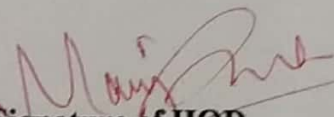
**DEPARTMENT OF BIOTECHNOLOGY**




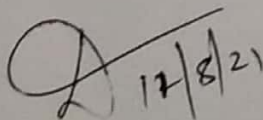
**CERTIFICATE**

This is to certify that the phase two project entitled “Molecular characterization of *Rosemary* seed propagated progenies by ISSR markers” presented by Arpitha K (10X17BT006) and Ganya Shree K (10X17BT012), in partial fulfilment for the award of Bachelor of Engineering of Vishvesvaraya Technological University, Belagavi, during the academic year 2020 – 2021. The phase two project has been approved as it satisfies the academic requirements in respect of phase one project prescribed for the said degree.

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

  
**Signature of HOD**  
**Dr. B.K. Manjunatha**  
Professor and Head  
Dept. of Biotechnology  
The Oxford College of Engineering  
Bengaluru-560 068.

  
**Signature of Principal**  
**Dr. N. Kannan**  
Principal  
**PRINCIPAL**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

  
17/8/21

# THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, BANGALORE- 560068

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

## DEPARTMENT OF BIOTECHNOLOGY

### CERTIFICATE



This is to certify that the phase II project entitled “**Development of Herbal Preparations for Health Benefits**” submitted by **Kunalika M H (10X17BT022)**, **Noor Tuba (10X17BT029)**, **Sushma Bhandarkar M (10X17BT042)** bonafide students of **The Oxford College of Engineering** in partial fulfilment for the award of Bachelor of Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2020 - 2021. The phase II project report has been approved as it satisfies the academic requirements in respect of phase II project prescribed for the said degree.

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

Signature of Internal Guide  
**Dr. B K Manjunatha**  
Professor & Head,  
Dept. of Biotechnology

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

Signature of HOD  
**Dr. B K Manjunatha**  
Professor & Head,  
Dept. of Biotechnology

Signature of Principal  
**Dr. N Kannan**  
**PRINCIPAL**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

DEVAKARA. R

DR. B. K. MANJUNATHA

12/8/21

**THE OXFORD COLLEGE OF ENGINEERING**

(Affiliated to Visvesvaraya Technology University, Belagavi)

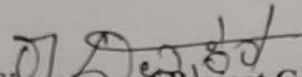
Bommanahalli, Hosur Road, Bengaluru -560068

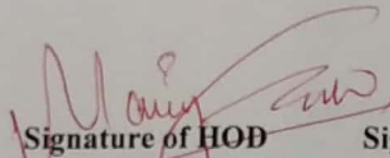
**DEPARTMENT OF BIOTECHNOLOGY**

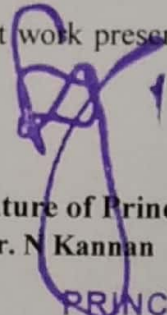


**CERTIFICATE**

This is to certify that the project entitled "Phytochemical Analysis and Antibacterial Study of *Helicteres isora* fruit" presented by Dhanush P (10X17BT010), bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2020- 2021. 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 Project Guide  
Mr. Divakara R  
Assistant professor  
Dept. of Biotechnology

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

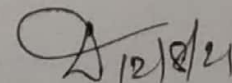
  
Signature of Principal  
Dr. N Kannan  
PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

External viva

Name of the examiners

1. DIVAKARA R
2. DR. B. K. MANJUNATHA

Signature with date



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

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

**DEPARTMENT OF BIOTECHNOLOGY**



**CERTIFICATE**

This is to certify that the phase two project entitled “**Production of Probiotic Cantaloupe (*Cucumis melo*) Juice Using *Lactobacillus acidophilus* and *Lactobacillus plantarum***” was presented by **Akshay. V. Nair (10X17BT002), Prakash Nath (10X17BT032), Saima Jamal (10X17BT038)** bonafide students of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfillment for the award of Bachelor of Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2020 - 2021. The phase two project has been approved as it satisfies the academic requirements in respect of phase one project prescribed for the said degree.

Signature of Internal Guide

**Dr. Valarmathy K.**

Signature of HOD

**DR. B. K. MANJUNATHA**  
Professor & Head

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

Signature of Principal

**Dr. N. Kannan**  
**PRINCIPAL**

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

External Viva

1. DEVARARA R
2. DR. B. K. MANJUNATHA

# THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bengaluru -560068

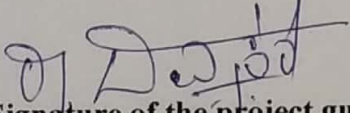
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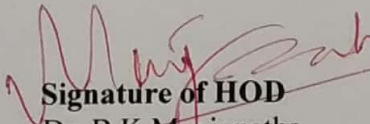
## DEPARTMENT OF BIOTECHNOLOGY




### CERTIFICATE

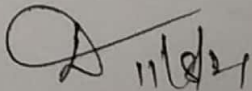
This is to certify that the project entitled “**Studies on genomics and product development in *Garcinia species***” was presented by AKSHAY S (10X17BT001), ANOOP M (10X17BT003), BHOO MIKA M R (10X17BT009) and RAHUL N (10X17BT035) bonafide students of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfilment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi during the academic year 2020-2021. The phase two project has been approved as it satisfies the academic requirements in respect to of phase one project prescribed for the said degree.

  
**Signature of the project guide**  
Mr. Divakara R  
Asst. Professor,  
Dept. of biotechnology.

  
**Signature of HOD**  
Dr. B.K. Manjunatha  
Prof. and Head,  
Dept. of biotechnology.  
Department of Biotechnology,  
The Oxford College of Engineering  
Bengaluru-560 068.

  
**Signature of Principal**  
Dr. N Kannan  
The principal,  
TOCE. **PRINCIPAL**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

1. DIVAKARA R
2. DR. B.K. MANJUNATHA

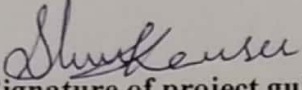


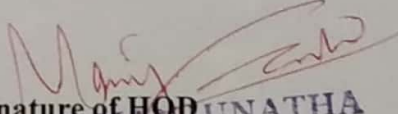
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE- 560068  
(Affiliated to VTU, Belagavi, Approved by AICTE & Accredited by NAAC & NBA New Delhi)  
DEPARTMENT OF BIOTECHNOLOGY




CERTIFICATE

This is to certify that the phase II project entitled "BIOCHEMICAL CHARACTERIZATION, INVITRO AND INSILCO STUDY OF PHYTO CONSTITUENTS EXTRACTED FROM *Leucas aspera*" presented by Ishwarya A (10X17BT016), Komalesh S (10X17BT020), Mala N (10X17BT024), Preetham A (10X16BT033) in partial fulfillment for the award of Bachelor of Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2019 - 2020. The phase two project has been approved as it satisfies the academic requirements in respect of phase two project prescribed for the said degree.

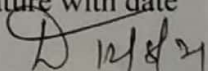
  
Signature of project guide  
Ms. Salma Kausar M  
Assistant Professor  
Dept. of Biotechnology

  
Signature of HOD  
DR. B.K. Manjunatha  
Professor and Head  
Department of Biotechnology  
Dept. of Biotechnology  
The Oxford College of Engineering  
Bengaluru-560 068.

  
Signature of Principal  
Dr. N Kannan  
Principal  
PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

External viva

- 1) DIVAKARA. R
- 2) DR. B.K. HANJUNATHA

Signature with date  




**THE OXFORD COLLEGE OF ENGINEERING**

BOMMANAHALLI, BANGALORE- 560068

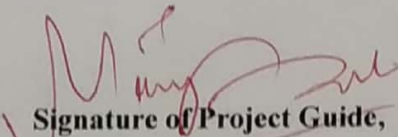
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**DEPARTMENT OF BIOTECHNOLOGY**

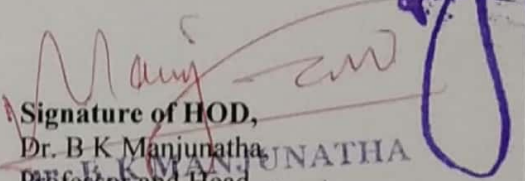


**CERTIFICATE**

This is to certify that the phase two project entitled "GREEN SYNTHESIS OF SELENIUM NANOPARTICLES FROM *HEDYCHUM CORONARIUM* EXTRACT" presented by Nireeksha Huns (10X17BT028) Sangeetha. S. Kumar (10X17BT039) in partial fulfillment for the award of Bachelor of Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2020 - 2021. The phase two project has been approved as it satisfies the academic requirements in respect of phase one project prescribed for the said degree.

  
Signature of Project Guide,  
Dr. B K Manjunatha,  
Professor and Head,  
Dept. of Biotechnology.

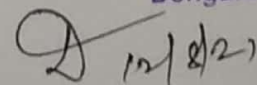
**Dr. B. K. MANJUNATHA**  
Professor & Head  
Department of Biotechnology  
The Oxford College of Engineering  
Bengaluru - 560 068.

  
Signature of HOD,  
Dr. B K Manjunatha,  
Professor and Head,  
Dept. of Biotechnology.

**Dr. B. K. MANJUNATHA**  
Professor & Head  
Department of Biotechnology  
The Oxford College of Engineering,  
Bengaluru - 560 068. **PRINCIPAL**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru - 560 068.

DEVAKARA . R

DR. B.K. MANJUNATHA

  
12/8/21

# THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Bangalore- 560068

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

## DEPARTMENT OF BIOTECHNOLOGY



### CERTIFICATE

This is to certify that the phase II project entitled "Anti-cancer study on phenolic compounds extracted from Leucas species" presented by MARIA TANIA D (IOX17BT025), MIZBA FARKANA M (IOX17BT026), PURVIKA C (IOX17BT034) and VIDYA VAISHNAVI S (IOX17BT037) in partial fulfilment for the award of Bachelor of Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2020 - 2021. The phase II project has been approved as it satisfies the academic requirements in respect of phase II project prescribed for the said degree.

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

Signature of HOD  
Dr. B.K. Manjunatha  
Professor & Head  
Dept. of Biotechnology  
The Oxford College of Engineering  
Bangaluru-560 068.

Signature of Principal  
Dr. N Kannan  
Principal

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

External viva

- 1) DIVAKARA R
- 2) DR. B.K. MANJUNATHA.

Signature with date

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

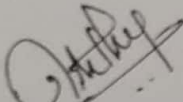
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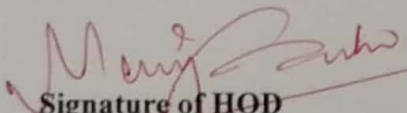
**DEPARTMENT OF BIOTECHNOLOGY**

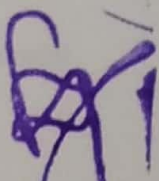


**CERTIFICATE**

This is to certify that the phase two project entitled "DISCOVERY OF ANTIMICROBIAL COMPOUND AGAINST *STAPHYLOCOCCUS AUREUS* AND OINTMENT FORMULATION" was presented by Ardrha Anil (10X17BT005), Azra Taskeen (10X17BT008), Jasmine Veronica G (10X17BT017) and S Kushmitha Jadhav (10X17BT036) bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2020 - 2021. The phase two project has been approved as it satisfies the academic requirements in respect of phase two project prescribed for the said degree.

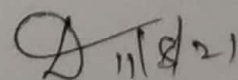
  
Signature of Internal Guide  
Dr. Valarmathy K  
Associate professor  
Dept. of Biotechnology

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

  
Signature of Principal  
Dr. N. Kannan  
PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068

External Viva

1. DEVAKARA. R
2. DR. B. K. MANJUNATHA

  
11/8/21

**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING**




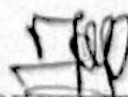
**CERTIFICATE**

This is to certify that the report on technical seminar on topic entitled “**GREEN CONCRETE**” has been successfully carried out by **Mr MANJUNATH.B** bearing **10X15CV052** ,**Mr. ANAND KUMAR** bearing **10X17CV404**, **Mr. RAMAKRISHNA** bearing **10X15CV077**, **Mr. THOKCHUM NARESH SINGH** bearing **10X14CV081** bonafide student of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfilment for award of Bachelor of Engineering, in **CIVIL ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**,

Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.

**PRINCIPAL  
Dr. Kannan  
TOCE**

  
**UNDER THE GUIDANCE  
Mr. PRASHANTH T. S  
Assistant Professor & Guide  
Dept. of Civil Engineering**

  
**HEAD OF DEPARTMENT  
Mr. MALLESHIAH  
Professor & Hod  
Dept. of Civil Engineering**

**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the report on technical seminar on topic entitled "STUDY ON PERVIOUS CONCRETE" has been successfully carried out by **POOJA BM** bearing USN : 10X16CV054 bonafide student of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfilment for award of Bachelor of Engineering, in **CIVIL ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**, Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.

**PRINCIPAL  
Dr. Kannan  
TOCE**

**Head of the Department  
Department of Civil Engineering  
The Oxford College of Engineering  
Bangalore - 560 068.  
HEAD OF DEPARTMENT  
Mr. MALLESHIAH  
Professor & Hod  
Dept. of Civil Engineering**

*Secy 9/8/2021*  
**UNDER THE GUIDANCE**

**SHRIYANAND C G**  
Assistant Professor & Guide  
Dept. of Civil Engineering

**THE OXFORD COLLEGE OF ENGINEERING BOMMANAHALLI,  
HOSUR ROAD DEPARTMENT OF CIVIL ENGINEERING  
BANGALORE-560068**

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



**CERTIFICATE**

This is to certify that the report on technical seminar entitled "STRENGTH ASSESMENT OF EXPANSIVE SOIL USING RED SOIL AND FORMULATION OF REGRESSION ANALYSIS" carried out by Rajesh Reddy M (10X17CV038) Vaishali Gopalakrishna Bhat (10X17CV058) Chawan Vikas Dharma (10X18CV407) & Shakeeb Sharief I (10X18CV434) Bonafede student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor of Engineering in Civil Engineering of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the year 2020-2021. The seminar report has been approved as it satisfies the academic requirements in respect of Technical seminar prescribed for the said degree.

*MKS*  
*27/8/2021*

Under the guidance of	Head of Department	Principal
Mr. Mahesh Kumar S	Mr. Malleshaiah T S	Dr. N Kannan
Assistant Professor & Guide	Professor & HOD	The Oxford college of
Dept. of Civil Engineering	Department of Civil Engineering	Engineering
	The Oxford College of Engineering	
	Bangalore - 560 068.	

**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING**



This is to certify that the report on topic entitled "SEWAG WATER TREATMENT BY NATURAL SOURCES" has been successfully carried out by SUHAS ODEYAR S G (10X17CV051), SOMASHEKAR P (10X18CV436), SHASHANK B S (10X17CV048), RANAASWAMY S (10X17CV040), bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.

**PRINCIPAL**

**Dr. KANNAN**

TOCE

**HEAD OF DEPARTMENT**

**Mr. MALLESHIAH**

Head of the Department

Professor & HOD

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

**UNDER THE GUIDANCE  
HARSHA S BHAVIMANI  
Assistant Professor & Guide**

Dept .of Civil Engineering

**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the report on technical seminar on topic entitled "PROJECT TOPIC" has been successfully carried out by BRUNDA R(10X17CV011), ADHITHYA A(10X17CV004), DANISH IQBAL(10X18CV408), AJAYKUMAR MD(10X18CV401) bearing bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.

*Handwritten signature and date: 7/6/2021*

**UNDER THE GUIDANCE**

**Mr. MAHESH KUMAR S**  
Assistant Professor & Guide  
Dept. of Civil Engineering

**PRINCIPAL  
Dr. Kannan  
TOCE**

*Handwritten signature*

**HEAD OF DEPARTMENT**  
~~Head of the Department~~  
~~Department of Civil Engineering~~  
~~Professor & Head~~  
~~The Oxford College of Engineering~~  
~~Dept. of Civil Engineering~~  
~~Bangalore - 560068.~~







**THE OXFORD COLLEGE OF ENGINEERING  
BANGLORE-560068  
DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the report on project on topic entitled "EXPERIMENTAL INVESTIGATION ON COMPRESSIVE STRENGTH OF CONCRETE WITH PARTIAL REPLACEMENT OF FINE AGGREGATE BY RECYCLED CONCRETE WASTE" has been successfully carried out by SUPRIYA M P bearing USN: 10X17CV053, H M TILAK GOWDA bearing USN: 10X17CV062, SHARATH KUMAR M S bearing USN: 10X18CV435 and YATHISH KUMAR M bearing USN: 10X18CV444 bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi, during for the academic year 2020-2021. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of project on current topic prescribed for B.E Degree.

**UNDER THE GUIDANCE**  
**Mr. PRAKASH N**  
Assistant Professor & Guide  
Dept. of Civil Engineering

**HEAD OF DEPARTMENT** **PRINCIPAL**  
**Mr. MALLESHIAH** **Dr. N KANNAN**  
Head of the Department Professor & HOD TOCE  
Department of Civil Engineering  
The Oxford College of Engineering  
Bangalore - 560 068.

THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING



**CERTIFICATE**

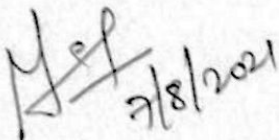
This is to certify that the report on technical seminar on topic entitled "*Implementing GPS and FASTag for detection of traffic violations*" has been successfully carried out by Akarsh T bearing USN: 10X17CV006, Gurubasava Shetkar bearing USN: 10X17CV019, Pavanesh S bearing USN: 10X17CV032, Divya V P bearing USN: 10X18CV411, bonafide students of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfillment for award of Bachelor of Engineering, in **CIVIL ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY,**

Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.

**PRINCIPAL**

**Dr. Kannan**

**TOCE**

  
**UNDER THE GUIDANCE**  
**Mr. Mahesh Kumar S**  
Assistant Professor & Guide  
Civil Engineering

  
**HEAD OF DEPARTMENT**  
Department of Civil Engineering  
**The Oxford College of Engineering**  
Professor & Hod. Dept. of  
Bangalore-560068  
Dept. of Civil Engineering

**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the report on technical seminar on topic entitled "RICE HUSK ASH CONCRETE BLOCKS ADDITION OF STEEL FIBERS" has been successfully carried out by **Manoj C Y** bearing USN:10X18CV418 , **Amaresha** bearing USN:10X18CV403, **Arpita** bearing USN:10X18CV404, **B Chandrashekhara** bearing USN:10X18CV405, are bonafide students of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfillment for award of **Bachelor of Engineering**, in **CIVIL ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**, Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.

**UNDER THE GUIDANCE  
MS SHRADHA J  
Assistant Professor & Guide  
Dept. of Civil Engineering**

**PRINCIPAL  
Dr. Kannan  
TOCE**

**HEAD OF DEPARTMENT  
Mr. MALLESHIAH  
Professor & HOD  
Dept. of Civil Engineering  
Head of the Department  
Department of Civil Engineering  
The Oxford College of Engineering  
Bangalore - 560 068.**

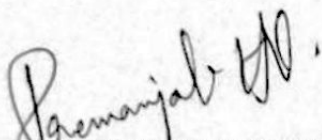
**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING**




**CERTIFICATE**

This is to certify that the report on technical seminar on topic entitled "SELF HEALING CONCRETE" has been successfully carried out by NITHIN K M bearing USN: 10X18CV423, P VINAY bearing USN: 10X18CV424, THILAK PANI P bearing USN: 10X18CV439, VASANT NAIK bearing USN: 10X18CV441, bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.

**PRINCIPAL  
Dr. Kannan  
TOCE**

  
UNDER THE GUIDANCE

**Mrs. PREMANJALI H V**  
Assistant Professor & Guide  
Dept. of Civil Engineering

  
HEAD OF DEPARTMENT

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

**THE OXFORD COLLEGE OF ENGINEERING**  
**BANGLORE-560068**  
**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the report on project on topic entitled "PERFORMANCE OF CONCRETE USING ALUMINIUM DROSS" has been successfully carried out by ASIM SAQLAIN bearing USN: 10X15CV118, SADAM HUSSAIN W bearing USN: 10X16CV063, PRIYADARSHINI N bearing USN: 10X17CV036 and SHALINI SHARMA bearing USN: 10X17CV047 bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi, during for the academic year 2020-2021. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of project on current topic prescribed for B.E Degree.

**UNDER THE GUIDANCE**  
**Mr. PRAKASH N**  
Assistant Professor & Guide  
Dept. of Civil Engineering

**HEAD OF DEPARTMENT**  
**Mr. MALLESHIAH**

Professor & HOD  
Head of the Department  
Dept. of Civil Engineering  
Department of Civil Engineering  
**The Oxford College of Engineering**

**PRINCIPAL**  
**Dr. N KANNAN**  
TOCE

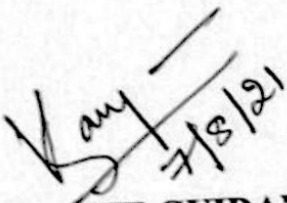
**THE OXFORD COLLEGE OF ENGINEERING  
DEPARTMENT OF CIVIL ENGINEERING**


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



**CERTIFICATE**

This is to certify that the report on Final Project on topic entitled "EFFICIENCY OF WASTEWATER TREATMENT IN SEWAGER WASTEWATER BY USING FLUIDIZED BED REACTOR" has been successfully carried out by B HEMANTH KUMAR (10X17CV008), DEEPIKA H K (10X17CV017), PRASHANTH M A (10X1CV034), PREETHI S (10X17CV035) bearing USN: USN, bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Final Project on current topic prescribed for B.E Degree.

  
UNDER THE GUIDANCE  
Ms. KAVYA S KALLIMANI  
Assistant Professor & Guide  
Dept. of Civil Engineering

  
HEAD OF DEPARTMENT  
Mr. T S MALLESHIAH  
Head of the Department  
Professor & Hod  
Department of Civil Engineering  
Dept. of Civil Engineering  
The Oxford College of Engineering  
Bangalore - 560 068.

PRINCIPAL  
Dr. N KANNAN  
TOCE



**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

Certified that the project work entitled "TO STUDY THE BEHAVIOR OF CONCRETE BOTH IN FRESH AND HARDENED STAGE BY REPLACING COARSE AGGREGATE WITH RECYCLED WASTE AGGREGATE FROM STRUCTURAL CONCRETE" carried out by Mr.Ashoka C USN:10X17CV007, Mr.Chethan G S USN:10X17CV016, Mr.Dheeraj K M USN:10X18CV409 and Mr.Manjunath F H USN:10X18CV417 bonafide students of The oxford collage of engineering in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belgaum, during the year 2020-2021. 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  
**Ms. Harsha S Bhavimani**  
 Asst professor  
 Dept of Civil Engineering  
 TOCE Bommanahalli, Bangalore-68

.....

**Head of the Department**  
**Mr. Malleshiah**  
 Head of Department  
**Department of Civil Engineering**  
**The Oxford College of Engineering**  
 Bangalore-560068

.....

Signature of the Principal  
**Dr. Kannan**  
 Principal  
 TOCE Bommanahalli  
 Bangalore-68

**External viva**  
**Name of the examiners**  
  
 1.....  
 2.....

**Signature with date**  
  
 .....  
 .....

# THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BANGALORE-560068

(Affiliated to VTU and approved by AICTE)

## DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the report on project on topic entitled "WATER ABSORBING PAVEMENT" has been successfully carried out by Ms. THASMIYA A HADIMANI(10X17CV057) Ms. VARSHINI BM (10X17CV059) Mr. PARASHURAMA (10X18CV425) Mr. UMESH (10X18CV440) bonafied student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.

PRINCIPAL  
Dr. Kannan  
TOCE

UNDER THE GUIDANCE  
Ms. SHRADHA J  
Assistant Professor & Guide  
Dept. of Civil Engineering

HEAD OF DEPARTMENT  
Ms. M. L. SHARADHA  
Department of Civil Engineering  
The Oxford College of Engineering  
Bangalore - 560 068

**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING**





**CERTIFICATE**

This is to certify that the report on technical seminar on topic entitled "EXPERIMENTAL INVESTIGATION OF GEOPOLYMER CONCRETE BY PARTIAL REPLACEMENT OF FINE AGGREGATE BY WASTE STEEL" has been successfully carried out by ABHISHEK B, JAYANTH S, KARTHIK K V, LEELA VINODH L bearing USN: 10X17CV001, 10X17CV021, 10X17CV022, 10X17CV023, bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.

**PRINCIPAL  
Dr. Kannan  
TOCE**

  
**UNDER THE GUIDANCE  
Ms. Amrutha M  
Assistant Professor & Guide  
Dept. of Civil Engineering**

  
**HEAD OF DEPARTMENT  
Mr. T S Malleshiah  
Professor & Hod  
Head of the Department  
Dept. of Civil Engineering  
Department of Civil Engineering  
The Oxford College of Engineering  
Bangalore-560 068.**

THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING



**CERTIFICATE**

This is to certify that the report on technical seminar on topic entitled "PARTIAL REPLACEMENT OF FINE AGGREGATE WITH GLASS POWDER" has been successfully carried out by PRATHAP U(10X18CV428), RAKESH (10X18CV429), RAKESH H R (10X18CV430) AND SACHIN S NAIK (10X18CV431). bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.

UNDER THE GUIDANCE  
Mr. PRAKASH N  
Assistant Professor & Guide  
Dept. of Civil Engineering

Head of the Department  
Department of Civil Engineering  
The Oxford College of Engineering  
HEAD OF DEPARTMENT  
Mr. MALLESHIAH  
Professor & HOD  
Dept. of Civil Engineering

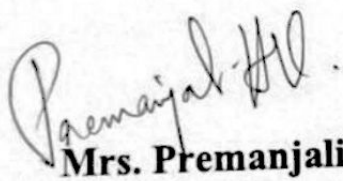
PRINCIPAL  
Dr. KANNAN  
TOCE

**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the report on technical seminar on topic entitled "BEHAVIOUR OF CONCRETE BY PARTIAL REPLACEMENT OF FINE AGGREGATE WITH CERAMIC WASTE" has been successfully carried out by ABID AHMAD BHAT (10X17CV002), MOHAMMAD JUNAID HUSSAIN (10X17CV026), RAYEES AHMAD AHANGER (10X17CV042) and SAJID HUSSAIN M (10X17CV046), bonafide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.



**Mrs. Premanjali H V**  
Internship Guide



**Dr. T S Malleshaih**  
H.O.D, Dept. of Civil Engineering  
The Oxford College of Engineering  
Bangalore-560 068.

**Dr. N Kannan**  
Principal, TOCE

**External Viva**

**Name of the Examiners**

1. \_\_\_\_\_

2. \_\_\_\_\_

**Signature with Date**

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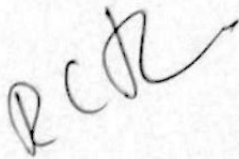
**THE OXFORD COLLEGE OF ENGINEERING  
BANGALORE-560068  
DEPARTMENT OF CIVIL ENGINEERING**




**CERTIFICATE**

This is to certify that the report on technical seminar on topic entitled "ANALYSIS AND DESIGN OF MULTI STOREY BUILDING USING ETABS" has been successfully carried out by HARSHITHA N bearing USN: 10X17CV020, NARENDRA M bearing USN: 10X17CV029, NITHIN TN bearing USN: 10X17CV031, PUNITH KUMAR P bearing USN: 10X17CV037 bona-fide student of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment for award of Bachelor of Engineering, in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi, during for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Technical Seminar on current topic prescribed for B.E Degree.

**PRINCIPAL  
Dr. N Kannan  
TOCE**

  
**UNDER THE GUIDANCE  
Mrs. GAYATHRI R  
Assistant Professor & Guide  
Dept. of Civil Engineering**

  
**H. Harshitha N  
Department of Civil Engineering  
The Oxford College of Engineering  
Dept. of Civil Engineering  
Bangalore-560068**

# THE OXFORD COLLEGE OF ENGINEERING

## DEPARTMENT OF CIVIL ENGINEERING

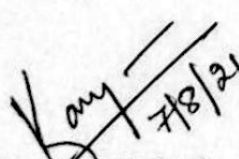
Hosur Road, Bommanahalli, Bangalore – 560068, 2020-2021


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



## CERTIFICATE

This is to certify that the report on Project on topic entitled “Use of Dolichos lablab and Cicer arietinum seeds as coagulants for Industrial wastewater treatment: A Comparative study” has been successfully carried out Soumya U (10X17CV050), Pooja N (10X17CV033), Rakshitha Y N (10X17CV039), & Pragathi K (10X18CV427) in partial fulfillment for award of Bachelor of Engineering, in Civil Engineering for the academic year 2020-21. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the department. The report has been approved as it satisfies the academic requirements in respect of Project on current topic prescribed for B.E Degree.

  
Ms. KAVYA.S. K  
Assistant Professor & Guide  
Dept. of Civil Engineering

  
Dr. T.S. MALLESHIAH  
Professor & Hod  
Department of Civil Engineering  
The Oxford College of Engineering  
Bangalore-560 068.

Dr. N KANNAN  
Principal, TOCE

# THE OXFORD COLLEGE OF ENGINEERING

(Affiliated to VTU, Belgaum)  
Bommanahalli, Bangalore-560 068

Department of Automobile Engineering



## CERTIFICATE

Certified that the project work entitled "**Fabrication of Frictionless Braking System for Four Wheel Vehicle**" carried out by Mr. CHAMUNDI PRASAD (10X17AU007), Mrs. MEGHANA HARIHARAN T (10X17AU016), Mr. PARTH S SATPUTE (10X17AU022), Mr. VINAY KUMAR M S (10X17AU041), bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfilment of the award of **Bachelor of Engineering in Automobile Engineering** of the Visvesvaraya Technological University, Belagavi, during the year 2017-2021. It is certified that all the suggestions indicated for internal assessment have been incorporated in the report and this report deposited in departmental library. The project has been approved as it is satisfying the academic requirements in respect of project work prescribed for the said degree

  
Signature of Guide

Signature of HOD

Signature of Principal

### EXTERNAL VIVA

Name of the examiners

Signature with date

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_



# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bangalore-560068


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

## DEPARTMENT OF AUTOMOBILE ENGINEERING



### CERTIFICATE


Certified that the project work entitled "A STUDY AND FABRICATION OF FRICTION STIR WELDING OF ALUMINIUM ALLOY 6082" carried out by Mr. Mohammed Thameem S (10X17AU018), Mr. Bharath S (10X17AU006), Mr. Farhan M Khan (10X17AU010) and Mr. Syed Abdul Khader (10X17AU038), bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological University, belagavi during the year 2020-2021. 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 aspect of project work prescribed for the said Degree.

  
Signature of Guide  
Mr. MARUTHI S B

Name of Examiner

- 1.
- 2.

  
Signature of HOD 9/8/21  
Professor & Head  
Department of Automobile Engineering  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068.

  
Signature of Principal  
Dr. KANNAN N  
PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangaluru-560 068.

# THE OXFORD COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi)


Bommanahalli, Bengaluru - 560068

## DEPARTMENT OF AUTOMOBILE ENGINEERING



### CERTIFICATE

Certified that the project work entitled by **“PERFORMANCE AND EMISSION CHARACTERISTICS OF INTERNAL COMBUSTION ENGINE FUELLED WITH TWO BIO-DIESEL BLENDS”** carried about the bonafide students of The Oxford College of Engineering, MAHESH MANJUNATH (10X16AU014), BEVAN CHRISTOPHER (10X15AU012), ASHWIN R (10X17AU401), in partial fulfillment for the award of **“Bachelor of Engineering”** as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2020-21. It is certified that all corrections/suggestions for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for the said degree.

  
Dr. RAJU B R  
Guide

  
Dr. RAJU B R  
HOD

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

  
Dr. KANNAN N  
Principal  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068.

Name of the Examiners

1. \_\_\_\_\_

2. \_\_\_\_\_

Signature / Date

\_\_\_\_\_

\_\_\_\_\_

# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bangalore-560068

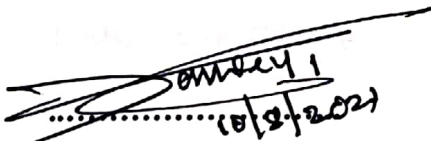
(Affiliated in VTU and approved by AICTE Accredited by NAAC and NBA)

Department of Automobile Engineering



## CERTIFICATE

Certified that the Project work entitled **“DESIGN AND DEVELOPMENT OF THREE-WAY TIPPING VEHICLE”** carried out by **SHASHANK NAIK (10X17AU034), VIKRANTH N (10X17AU040), ROHITH M (10X17AU029), RAVIKISHAN V (10X17AU028)**, a bonafide students of **The Oxford College of Engineering, Bangalore** in partial fulfilment for the award of degree of **Bachelor of Engineering in Automobile Engineering of Visvesvaraya Technological University, Belagavi** during the academic year **2020-21**. 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.

  
.....  
(18/12/2021)

Signature of the Guide

Prof. SANDEEP K CHAVAN

  
.....

Signature of the HOD

Dr. RAJU B R

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

  
.....

Signature of the Principal

Dr. KANNAN N

PRINCIPAL

The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangaluru-560 068.  
Signature with dates:

Name of the Examiners:

1. ....

2. ....

# THE OXFORD COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi)

Bommanahalli, Bengaluru - 560068

## DEPARTMENT OF AUTOMOBILE ENGINEERING



### CERTIFICATE

Certified that the project work entitled by "**WORKING OF MOTORIZED STANDING WHEELCHAIR USING RATCHET MECHANISM**" carried about the bonafide students of The Oxford College of Engineering, KUMARSWAMY (10X17AU013), YASHASH YADAV G (10X17AU043), PRASHANTH KUMAR BT (10X17AU024), SHARATH KUMAR B (10X17AU032) in partial fulfillment for the award of "Bachelor of Engineering" as prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2020-21. 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.

*Shiv Kumar MM*  
09/10/21

Mr. SHIVKUMAR MM  
Guide

*Raju BR*  
Dr. RAJU BR  
Professor & Head  
HOD  
Department of Automobile Engineering  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068.

*Kannan*

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

### EXTERNAL VIVA

Name of the Examiners

Signature / Date

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

# THE OXFORD COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi)  
Bommanahalli, Bangalore-560068



Department of Automobile Engineering

## Certificate

This is to certify that the project work entitled "**RAIN SENSING AUTOMATIC WIPER IN FOUR WHEELERS**" carried out by **SHASHANK K B REDDY (10X17AU033)**, **M TEJA (10X16AU013)**, **NARESHA R (10X16AU020)**, **AJAY A (10X17AU002)** is a bonafide Student in partial fulfilment of the requirements for VIII Semester of **Bachelor of Engineering in Automobile Engineering of Visvesvaraya Technological University, Belgaum**, during the year 2020-21. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement in respect of technical seminar prescribed for the degree.

*Sanjay*  
11/02/2021  
Signature of Guide

*[Signature]*  
Signature of HOD

*[Signature]*  
Signature of Principal

**Professor & Head**

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

**PRINCIPAL**

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

Name of the examiners

1. \_\_\_\_\_

2. \_\_\_\_\_

**THE OXFORD COLLEGE OF ENGINEERING, Bengaluru-560068**  
**DEPARTMENT OF AUTOMOBILE ENGINEERING**



**CERTIFICATE**

This is to certify that the Project work entitled “**Design and Fabrication of Tractor Mounted Electric Agro-Sprayer**” carried out by “**Mr. DARSHAN SAVANTH M S, Mr. DEEPAK RAAJ S, Mr. JAGDEEP S**” students of **The Oxford College of Engineering** in partial fulfillment for the award of Bachelor of Engineering in Automobile Engineering of Visvesvaraya Technological University, Belagavi, during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
Signature of Guide

  
Signature of HOD

  
Signature of Principal

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

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

**External Viva**

**Internal Examiner**

1 \_\_\_\_\_

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**External Examiner**

1 \_\_\_\_\_

2 \_\_\_\_\_

# THE OXFORD COLLEGE OF ENGINEERING

(Affiliated to VTU, Belgaum)

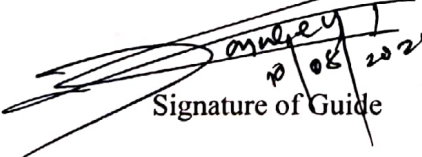
Bommanahalli, Bangalore-560 068

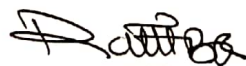
Department of Automobile Engineering

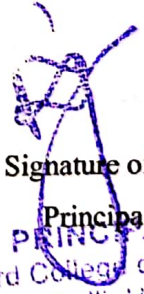


## CERTIFICATE

Certified that the project work entitled **“Design and Fabrication of Multipurpose Agriculture Equipment”** carried out by **Mr. BHARATH KUMAR S** (10X17AU005), **Mr. MAAZ SAQLAIN F** (10X17AU015), **Mrs. PRIYANKA CM** (10X17AU026), bonafide students of **THE OXFORD COLLEGE OF ENGINEERING** in partial fulfilment of the award of **Bachelor of Engineering in Automobile Engineering** of the **Visvesvaraya Technological University, Belagavi**, during the year 2017-2021. It is certified that all the suggestions indicated for internal assessment have been incorporated in the report and this report deposited in departmental library. The project has been approved as it is satisfying the academic requirements in respect of project work prescribed for the said degree.

  
Signature of Guide

  
Signature of HOD  
**Professor & Head**  
Department of Automobile Engineering  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068.  
EXTERNAL VIVA

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

Name of the examiners

date

1. \_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bangalore-560068


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

## DEPARTMENT OF AUTOMOBILE ENGINEERING



### CERTIFICATE

Certified that the project work entitled **“DESIGN, SYNTHESIS AND CHARACTERIZATION OF NANO HYBRID COMPOSITES FOR AUTOMOTIVE APPLICATION”** carried out by Mr. Ansuman Tiwari (10X17AU004), Mr. Kailash S (10X17AU012), Mr. Kalyaan M (10X17AU014) and Mr. Rahul Jacob (10X17AU027), bonafide students of The Oxford College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological University, Belagavi during the year 2020-2021. 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 aspect of project work prescribed for the said Degree.

  
Signature of Guide 9/8/21

Dr. RAJU B R


Name of Examiner

1.

2.

  
Signature of HOD 9/8/21

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

  
Signature of Principal

Dr. KANNAN N

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





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

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



**CERTIFICATE**

Certified that the Project entitled "Fabrication of Throttle control mechanism" has been carried out by Joshua Sebastian Simon (10X16AU011), Rajat S (10X16AU407), Venkatesh k (10X16AU037), Kishore K (10X16AU404), Bonafide student of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Automobile Engineering of Visvesvaraya Technological University, Belagavi during the year 2020-2021. Thus, is certified that all correction / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect to the project work.

  
**Prof Maruthi S B**  
Assistance Professor

  
**Dr. Raju B R**  
Professor & Head  
Department of Automobile Engineering  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068.

PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068.  
External Viva

**Name of the Examiners**

1. \_\_\_\_\_
2. \_\_\_\_\_

**Signature with Date**

\_\_\_\_\_  
\_\_\_\_\_

# THE OXFORD COLLEGE OF ENGINEERING

10th Milestone, Bommanahalli, Hosur Road, Bengaluru, Karnataka 560068  
(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

## Department of Mechatronics Engineering



### CERTIFICATE

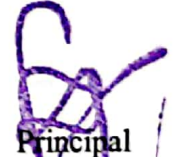
This is to Certify that the Project Work entitled “DEFENCE SURVEILLANCE ROBOT” is a bonafide work carried out by, **P Sam Christopher (10X17MT028)**, **Shreesha N Bhat (10X17MT034)**, **Vijay D (10X17MT041)** and **ThriloK V (10X18MT411)** in partial fulfilment for the award of Bachelor of Engineering in **Mechatronics Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2020 - 2021. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Project Report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

  
Guide 3/7/2021

**Mr. Syed Firozuddin**  
Asst Prof Dept of MTE, TOCE

  
HOD

**Dr. Yashoda B S**  
Head of Dept of MTE, TOCE

  
Principal

**Dr. Kannan**  
TOCE  
PRINCIPAL

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

Name of The Examiners

**Prof. & HOD**  
**Department of Mechatronics**  
**The Oxford College Of Engineering**  
**Bommanahalli, Bangalore - 560 068.**

Signature with Date

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

# THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bangalore-560068

(Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Mechatronics Engineering



## CERTIFICATE

Certified that the Project Work entitled "DESIGN, ANALYSIS AND FABRICATION OF DENTAL SET USING 3D PRINTER FOR PROTOTYPE" is a bonafide work carried out by, Akanksha V Reddy (10X16MT003), Darshan K N (10X17MT012), Jayanth C (10X16MT016) and Preetham S (10X17MT416) in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2020 - 2021. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Project Report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

  
06/08/2021  
Guide

**Mrs. Manasa N**  
Assistant Professor.  
Dept of MTE, TOCE

Name of The Examiners

1. \_\_\_\_\_
2. \_\_\_\_\_

  
HOD

**Dr. Yashoda B S**  
Department of MTE,  
TOCE  
**Prof. & HOD**  
Department of Mechatronics  
The Oxford College Of Engineering  
Bommanahalli, Bangalore - 560 068.

  
Principal

**Dr. N Kannan**  
The Oxford College Of  
Engineering  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.  
Signature with Date

\_\_\_\_\_  
\_\_\_\_\_

# THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bangalore-560068

## DEPARTMENT OF MECHATRONICS ENGINEERING



### CERTIFICATE

This is to certify that the project work entitled **“DESIGN AND FABRICATION OF BLUETOOTH CONTROLLED MATERIAL HANDLING ROBOT”** has been carried out by Mr. Kishore S (10X17MT019), Mr. Mohan Babu M (10X18MT405), Mr. Omkar Zadage (10X18MT408), Mr. Rashish Kumar (10X18MT410) 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 2020-2021. 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*  
5/8/2021  
Guide

**Mr. SYED FIROZUDDIN**  
Asst prof dept of MTE, TOCE

*Signature*  
HOD

**Dr. YASHODA B S**  
Head of dept of MTE, TOCE

**Prof. & HOD**  
**Department of Mechatronics**  
**The Oxford College Of Engineering**  
Bommanahalli, Bangalore - 560 068.

*Signature*  
Principal

**Dr. N. KANNAN**  
PRINCIPAL

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

**Signature with Date**

**Name of the Examiners**

1.....

2.....

.....

.....

# THE OXFORD COLLEGE OF ENGINEERING

Bengaluru-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

Department of Mechatronics Engineering



## CERTIFICATE

Certified that the Project Work entitled “DESIGN AND FABRICATION OF VOICE CONTROLLED FORKLIFT” is a bonafied work carried out by, Deekshith G S (10X17MT013), Murulikrishna N (10X17MT025), Chethan M (10X17MT011) and Nikhil Srinivas K R (10X17MT027) in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2020 - 2021. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Project Report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

*Syed Firozuddin*  
24/8/2021

**Signature of Guide**  
Mr. Syed Firozuddin  
Assistant professor  
DEPT OF MTE

*Dr. Yashoda B S*  
31/8/2021

**Signature of HOD**  
Dr. Yashoda B S  
DEPT OF MTE

**Prof. & HOD**

**Department of Mechatronics**  
**The Oxford College Of Engineering**  
Bommanahalli, Bangalore - 560 068.

*Dr. N Kannan*

**Signature of Principal**  
Dr. N Kannan  
TOCE

**PRINCIPAL**

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

**Name of the examiners:**

**Signature with Date**

- 1.
- 2.

# THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bangalore-560068

Department of Mechatronics Engineering



## CERTIFICATE

Certified that the Project Work entitled "RO.F.U.S- ROBOTIC FISH FOR UNDERWATER SURVEILLANCE" is a bonafide work carried out by, **Deshna Mohanty (10X17MT014), Vijayalakshmi S (10X17MT042)** in partial fulfilment for the award of Bachelor of Engineering in **Mechatronics Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2020 - 2021. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Project Report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

  
**Project Guide**

Dr. Yashoda B S

Head of Department,


Dept. of Mechatronics Engineering

TOCE

  
**Prof. & HOD**  
**HOD**  
**Department of Mechatronics**  
**The Oxford College of Engineering**  
**Bommanahalli, Bangalore - 560 068.**

Head of Department,  
Dept. of Mechatronics Engineering

TOCE

  
**Principal**

Dr. N Kannan

**PRINCIPAL**

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

**External Viva**

1.

2.

**Name of the Examiner**

**Signature with Date**

# THE OXFORD COLLEGE OF ENGINEERING

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

## Department of Mechatronics Engineering



### CERTIFICATE

Certified that the Project work entitled “BLINK CONTROLLED DRONE USING EEG [ELECTROENCEPHALOGRAM]” carried out by VISHAL BS [10X17MT044], MANISH CHANDRA V[10X17MT020], UDAY KUMAR K[10X17MT038], HARSHAVARDHANA B[10X16MT014] are bonafide students of THE OXFORD COLLEGE OF ENGINEERING, of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2020-21. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide  
Prof. Annaiah C  
DEPT OF MTE

Signature of HOD  
Dr. Yashoda B S  
PROF. & HOD  
DEPT OF MTE  
Department of Mechatronics  
The Oxford College Of Engineering  
Bommanahalli, Bangalore - 560 068.

Signature of Principal  
Dr. N. Kannan  
TOCE  
PRINCIPAL  
The Oxford College of Engineering,  
Bommanahalli, Hosur Road  
Signature with Date.

Name of the Examiners:

- 1.
- 2.

# THE OXFORD COLLEGE OF ENGINEERING

Bengaluru-560068


(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)


Department of Mechatronics Engineering



## CERTIFICATE

Certified that the Project Work entitled “DEVELOPMENT OF A SIGN LANGUAGE TEACHING AID FOR DEAF AND DUMB USING LabVIEW” is a bonafied work carried out by, Kiran S (10X17MT018), Sanjay J (10X17MT032) and Vishnu Manohar Tumsi S (10X17MT045) in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2020 - 2021. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Project Report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

  
**Signature of Guide**  
Dr. Yashoda B S  
DEPT OF MTE

  
**Signature of HOD**  
Dr. Yashoda B S  
DEPT OF MTE  
**Prof. & HOD**  
**Department of Mechatronics**  
**The Oxford College Of Engineering**  
Bommanahalli, Bangalore - 560 068.

  
**Signature of Principal**  
Dr. Kannan  
**Principal**  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore - 560 068.  
**Signature with Date**

**Name of the examiners:**

- 1.
- 2.



# THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bengaluru-560068

(Affiliated to VTU and approved by NAAC and NBA)

Department of Mechatronics Engineering



## CERTIFICATE

This is to certify that the technical project entitled "**HUMANOID ROBOT WITH THREE GRIPPER END EFFECTORS**" has been carried out by ANNIESH D K (10X17MT008), BRUNDHA J (10X17MT010), SHREYA BIRADAR G (10X17MT035), VARSHADHARE K (10X17MT039) Bonafede students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering under the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2020-2021. It is certified that all corrections/suggestions indicated for internal Assessment have been incorporated in the report deposited in the department library. The technical Project report has been approved as it satisfies the academic requirements in respect of technical project work prescribed for the said Degree.

  
Guide

Mrs. Seema V

Asst prof dept of MTE, TOCE

  
HOD

Dr. Yashoda B S

Head of dept of MTE, TOCE

**Prof. & HOD**

**Department of Mechatronics**  
**The Oxford College Of Engineering**  
Bommanahalli, Bangalore - 560 068.

  
Principal

Dr. N Kannan

**PRINCIPAL**

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

NAME OF THE EXAMINERS

SIGNATURE WITH DATE

1. \_\_\_\_\_

2. \_\_\_\_\_

**THE OXFORD COLLEGE OF ENGINEERING**  
Bommanahalli, Bengaluru – 560068  
**DEPARTMENT OF MECHATRONICS ENGINEERING**



**CERTIFICATE**

Certified that the Project work entitled “**PROJECT HYDRO AGRO – A AUTOMATED HYDROPONICS SYSTEM**” is a bonafied work carried out by, **Aman Raj (10X17MT007), K Vishnu (10X17MT017), Sanjay R (10X17MT033) and Vishnu S Kumar (10X17MT046)** in partial fulfilment for the award of Bachelor of Engineering in Mechatronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2020 – 2021. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Signature of Guide**  
Dr. Yashoda B S  
DEPT OF MTE

**Signature of HOD**  
Dr. Yashoda B S  
DEPT OF MTE

**Prof. & HOD**

**Department of Mechatronics**  
**The Oxford College Of Engineering**  
Bommanahalli, Bangalore - 560 068.

**Signature of Principal**  
Dr. N Kannan  
TOCE  
PRINCIPAL

**Name of the Examiners:**

- 1.
- 2.

**Signature with Date**

# THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bengaluru-560068

(Affiliated to VTU and approved by NAAC and NBA)

Department of Mechatronics Engineering



## CERTIFICATE

This is to certify that the technical project entitled "ARMY ROBOT USING CAMOUFLAGE" has been carried out by PRAVEEN KUMAR SALIMATH (10X18M409), BHAT NIRANJAN RAMAKRISHNA (10X16MT008), BHANUSHREE O (10X15MT008), RANA GAUTAM PATIL (10X15MT037) Bonafide students of THE OXFORD COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Mechatronics Engineering under the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum during the year 2020-2021. It is certified that all corrections/suggestions indicated for internal Assessment have been incorporated in the report deposited in the department library. The technical Project report has been approved as it satisfies the academic requirements in respect of technical project work prescribed for the said Degree.

  
6/8/2021

Guide

Mrs. Manasa N

Asst prof dept of MTE, TOCE



HOD

Dr. Yashoda BS

Head of dept of MTE, TOCE



Principal

Dr. N Kannan

TOCE PRINCIPAL

**Prof. & HOD** The Oxford College of Engineering  
**Department of Mechatronics** Bommanahalli, Hosur Road  
**The Oxford College Of Engineering** Bengaluru-560 068.  
**Bommanahalli, Bangalore - 560 068.**  
SIGNATURE WITH DATE

NAME OF THE EXAMINERS

1. \_\_\_\_\_

2. \_\_\_\_\_

# THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bangalore-560068

(Affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi)

## Department of Mechatronics Engineering



### CERTIFICATE

Certified that the Project Work entitled "RIFHA - RIPE FRUIT HARV-BOT BASED ON INTEGRATED CONVOLUTIONAL NEURAL NETWORK AND MACHINE LEARNING" is a bonafide work carried out by, **Monica P (10X17MT022)**, **Monish Prakash A (10X17MT023)** and **Jeeva A (10X18MT404)**, **Niranjan S (10X18MT407)** in partial fulfilment for the award of Bachelor of Engineering in **Mechatronics Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2020 - 2021. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Project Report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

  
Guide 6/8/2021

**Mrs. MANASA N**  
Assistant Professor.  
Dept of MTE, TOCE  
Name of The Examiners

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

  
HOD

**Dr. Yashoda B S**  
Department of MTE,  
TOCE

**Prof. & HOD**  
**Department of Mechatronics**  
**The Oxford College Of Engineering**  
**Bommanahalli, Bangalore - 560 068.**

  
Principal

**Dr. N. Kannan**  
**PRINCIPAL**  
**The Oxford College Of Engineering**  
**Bommanahalli, Hosur Road**  
**Engineering**  
**Bengaluru-560 068.**  
Signature with Date

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# THE OXFORD COLLEGE OF ENGINEERING


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

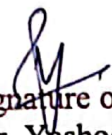
## Department of Mechatronics Engineering

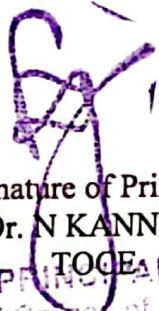


### CERTIFICATE

Certified that the Project work entitled "MULTI FUNCTIONAL COMBAT ROBOT" carried out by SHARATH KUMAR L[10X17MT009], JEEVITH R [10X17MT016], MUNNA KUMAR PANDIT [10X17MT024], NATRAJ BG [10X17MT009] are bonafide students of THE OXFORD COLLEGE OF ENGINEERING, of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2020-21. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
Signature of Guide  
Prof. SEEMA V  
DEPT OF MTE

  
Signature of HOD  
Dr. Yashoda B S  
DEPT OF MTE  
**Prof. & HOD**  
Department of Mechatronics  
The Oxford College Of Engineering  
Bommanahalli, Bangalore - 560 068.

  
Signature of Principal  
Dr. N KANNAN  
PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068.

Name of the Examiners:

Signature with Date

DEPARTMENT OF MTE

# THE OXFORD COLLEGE OF ENGINEERING

Bangalore – 560068

(Affiliated To Visvesvaraya Technological University, Belagavi)

## DEPARTMENT OF MECHATRONICS ENGINEERING



### CERTIFICATE

Certified that the project work entitled “ **DESIGN AND IMPLEMENTATION OF BIO INSPIRED SNAKE ROBOT**” carried out by **Varun (10X17MT040), Bharath N (10X18MT400), Ahmed Adeel Gazali (10X17MT002), Bhargav B S (10X18MT401)** bonafide students of The Oxford College of Engineering, Bangalore in partial fulfillment for the award of the Degree of Bachelor Of Engineering in **MECHATRONICS ENGINEERING** of Visvesvaraya Technological University, Belgaum during the year 2020-2021. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said degree.

  
06/08/21

Signature of Guide  
Mr. Annaiah C Shetter  
DEPT OF MTE



Signature of HOD  
Dr. Yashoda B S  
DEPT OF MTE

**Prof. & HOD**

**Department of Mechatronics**  
**The Oxford College Of Engineering**  
Bommanahalli, Bangalore - 560 068.



Signature of principal  
Dr. Kannan  
FOCE  
PRINCIPAL

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

Name of the examiners:

1.

2.



Children's Education Society ®  
**THE OXFORD COLLEGE OF ENGINEERING**  
Hosur Road, Bommanahalli, Bengaluru-560 068

080-30219601/02, Fax : 080-25730551,30219629,

Website:[www.theoxford.edu](http://www.theoxford.edu) Email : [engprincipal@theoxford.edu](mailto:engprincipal@theoxford.edu)

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

**CERTIFICATE**

This is to certify that **A.SANDEEP KUMAR** bearing USN: **10X19MBA01**, is a bonafide student of Master of Business Administration course of the Institute 2019-21 affiliated to Visvesvaraya Technological University, Belgaum. Project report on **A STUDY ON EFFECTIVENESS OF TRAINING AND DEVELOPMENT AT AUTOLIV.PVT.LTD.** 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, Belgaum Karnataka.

**Signature of Internal Guide**

**Signature of HOD**

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

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This is to certify that **SINDHU K ANGADI** bearing **USN NO: 10Y19MBA30** is a Bonafide student of master of Business Administration course of the institute 2019-2021, affiliated to Visvesvaraya Technology university, Belagavi, Project report on ” “**A STUDAY ON STATE BANK OF INDIA MUTUAL FUNDS IN SBI ,GUTTAL**” is prepared by her under the guidance of **Dr. M KATHIRAVAN Associate Professor**, Department of MBA, in partial fulfilment of the requirements for the award of The Degree of Master of Business Administration of

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This is to certify that **SIRISHA.M** bearing **10Y19MBA31** is bonafide student of Master of Business Administration course of the institute 2020-2021, affiliated to Visvesvaraya Technological University, Belagavi. The project report on “**A STUDY ON OCCUPATIONAL HEALTH HAZARDS AND ESI BENEFITS At MULTIPLE SPECIAL STEEL PVT LTD, BANGALORE**”, is prepared by her under the guidance of **Dr. M.KATHIRAVAN**, Associate Professor, MBA department, in partial fulfilment for the award of the Degree of Master of Business Administration of Visvesvaraya Technological University, Balagavi ,Karnataka.

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This is to certify that **SNEHA.S** bearing **USN NO: 10Y19MBA32** is a Bonafied student of master of Business Administration course of the institute 2019-2021, affiliated to Visvesvaraya Technology university, Belagavi, Project report on " **A STUDY ON ANALYSIS OF ASSETS AND LIABILITIES AT MANAGEMENTCHEFTALK FOOD AND LIABILITY SERVICES PRIVATE LIMITED , BANGALORE** is prepared by her under the guidance of **DR. M KATHIRAVAN Associate Professor**, Department of MBA, in partial fulfilment of the requirements for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that **SONALI** bearing **USN NO: 10Y19MBA33** is a Bonafide student of master of Business Administration course of the institute 2019-2021, affiliated to Visvesvaraya Technology university, Belagavi ,Project report on **“A STUDY ON EFFECTIVENESS OF TRAINING AND DEVELOPMENT AT TITAN COMPANY LIMITED HOSUR,TAMIL NADU”** is prepared by her under the guidance of **Dr. M KATHIRAVAN Associate Professor**, Department of MBA, in partial fulfillment of the requirements for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that Mr. SRINIVASA H P bearing USNo 10Y19MBA35 is a bonafide student of Master of Business Administration course of the institute, Batch 2019-2021, affiliated to Visvesvaraya Technological University, Belagavi. The project report on COST MANAGEMENT AT ITC LIMITED BANGALORE. is prepared by him under the guidance of Ms. A SAHANA. Asst. professor, MBA Department, in partial fulfillment of the requirement for the award of the Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that **STEFFI THOMAS** bearing **10Y19MBA36** is a bonafide student of Master of Business Administration course of the institute 2019 -2021, affiliated to Visvesvaraya technological university, Belagavi. Project report on **TECHNICAL AND FUNDAMENTAL ANALYSIS ON INTERNATIONAL COMMODITIES AND CFD MARKETS** is prepared under the guidance of **Ms. A.SAHANA** , Associate. professor, MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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### CERTIFICATE

This is to certify that **SUMANTH M** bearing **USN NO: 10Y19MBA37** is a bonafide student of Master of Business Administration course of the Institute to the academic year 2020-2021, affiliated to Visvesvaraya Technological University, Belgaum. Project report on “**AN ANALYSIS OF A FINANCIAL STATEMENT OF AN BADVE ENGINEERING LTD. NARSAPURA**” is prepared by him under the guidance of **Dr. M. KATHIRAVAN**, Associate professor, MBA Department, in partial fulfillment of the requirement for the award of the degree of Master of Business Administration of Visvesvaraya Technological University, Belgaum Karnataka.

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This is to certify that **SAKHAVARAPU SUNDEEP** bearing USNo **10Y19MBA19** is a bonafide student of Master of Business Administration course of the institute, Batch 2019 -2021, affiliated to Visvesvaraya Technological University, Belagavi. The project report titled **A STUDY ON FINANCIAL STATEMENT ANALYSIS AT LANCO INFRATECH LTD, HYDERABAD**, is prepared under the guidance of **Ms. A. SAHANA** Associate professor, MBA Department, in partial fulfillment of the requirement for the award of the Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that SUSHMA KUMARI bearing USNo 10Y19MBA38 is a bona fide student of Master of Business Administration course of the institute, Batch 2019-2021, affiliated to Visvesvaraya Technological University, Belagavi. The project report on RISK MANAGEMENT IN BANKING SECTOR AT KREDITBEE TECHNOLOGY is prepared by her under the guidance of A.SAHANA Asst. professor, MBA Department, in partial fulfillment of the requirement for the award of the Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that **SWATHI** bearing **USN NO: 10Y19MBA40** is a Bonafide student of master of Business Administration course of the institute 2019-2021, affiliated to Visvesvaraya Technology university, Belagavi, Project report on **A STUDY ON EXPORT PERFORMANCE OF JANATHA FISH MEAL AND OIL PRODUCTS** is prepared by Her under the guidance of **Prof. Sahana Associate Professor**, Department of MBA, in partial fulfilment of the requirements for the award of the Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that Syed Faizan Ahmed bearing USNo 10Y19MBA43 is a bonafide student of Master of Business Administration course of the institute, Batch 2019 -2021, affiliated to Visvesvaraya Technological University, Belagavi. The project report on **A STUDY ON BRAND IDENTITY AND ITS EFFECT ON CUSTOMER OPINION** is prepared by him under the guidance of A. Sahana Assoc. professor, MBA Department, in partial fulfillment of the requirement for the award of the Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that **TINSON JOSEPH** bearing **10Y19MBA49** is a bonafide student of Master of Business Administration course of the institute 2019 -2021, affiliated to Visvesvaraya technological university, Belagavi. Project report on **A STUDY ON BUYING MOTIVES AND FACTORS AFFECTING RURAL CUSTOMERES TOWARDS PURCHASING HERO MOTORCYCLES AT SAI WHEELZ, TUMKUR.** is prepared under the guidance of **Dr. K. THARAKA RAMI REDDY, Professor,** MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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This is to certify that **VARSHITHA K B** bearing **USN NO: 10Y19MBA50** is a bonafide student of Master of Business Administration course of the Institute to the academic year 2020-2021, affiliated to Visvesvaraya Technological University, Belgaum. Project report on “**A STUDY ON EFFECTIVENESS OF DIGITAL TRANSFORMATION IN HR ON ORGANIZATIONAL PERFORMANCE AT MISTRAL SOLUTIONS PRIVATE LIMITED, BANGALORE**” is prepared by her under the guidance of **Dr. M. KATHIRAVAN**, Associate professor, MBA Department, in partial fulfillment of the requirement for the award of the degree of Master of Business Administration of Visvesvaraya Technological University, Belgaum Karnataka.

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This is to certify that **VIKAS H S** bearing **10Y19MBA53** is a bonafide student of Master of Business Administration course of the institute 2019 -2021, affiliated to Visvesvaraya technological university, Belagavi. Project report on **A STUDY OF BUSINESS TO BUSINESS MARKETING STRATEGIES AT HINDUJA GLOBAL SOLUTIONS LIMITED, BANGALORE.** is prepared under the guidance of **Dr. K. THARAKA RAMI REDDY, Professor**, MBA department, in partial fulfillment of the requirement for the award of The Degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi, Karnataka.

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**Department of Master of Computer Applications,**



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This is to certify that **SUDEEP** has completed his/her final semester project work Title **Status Based Auditing System Using Cloud Computing** as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year 2020-2021 under our joint supervision.

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**Ms. Ushasree R**  
Assistant Professor  
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TOCE, Bangalore-68

**Head of the Department**  
**Dr. M S Shashidhara**

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

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Software Engineer  
Techciti Pvt.Ltd  
Bangalore

**Principal**  
**Dr. N Kannan**

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS



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This is to certify that **ABHINAVA GOWDA M A** has completed his final semester project work on **the Hungry Care** as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year **2020-2021** under our joint supervision.

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**Mr. Ashok B P**  
Asst. Professor  
Dept. of MCA  
The Oxford College of Engineering

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**Mr. Sunil Kumar N**  
Managing Director  
Intrella Technologies  
Bengaluru -560054

Head of the Department

**Dr. M S Shashidhara**

Dept. of MCA, TOCE

**Department of MCA**

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**Dr. N Kannan**

TOCE, Bengaluru

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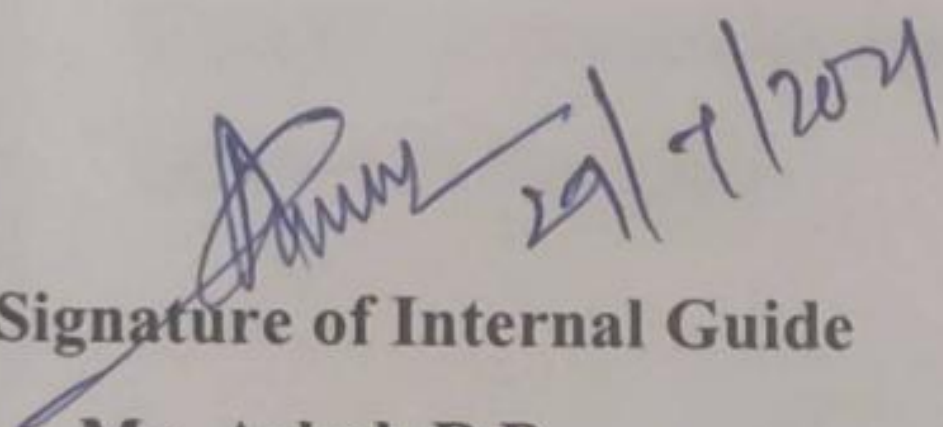
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10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068



**CERTIFICATE**

This is to certify that **ROHINI N** has completed his/her final semester project work Title **Bug Tracking Tools For Developing Quality Software Product** as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year 2020-2021 under our joint supervision.

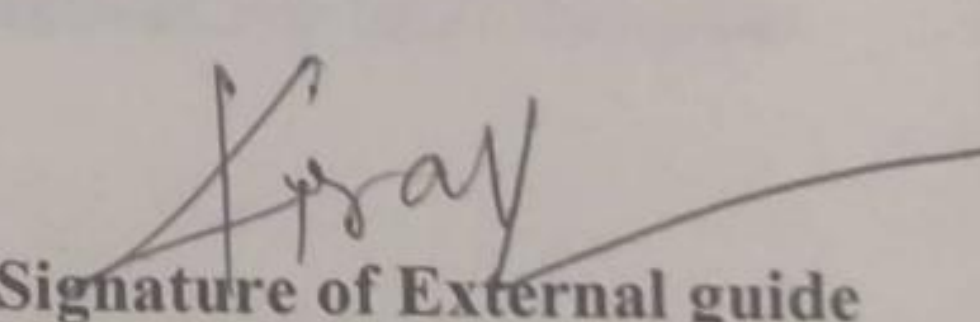
  
Signature of Internal Guide

**Mr. Ashok B P**

Assistant Professor

Dept of MCA

TOCE, Bangalore-68

  
Signature of External guide

**Mr. Kiran Kumar G R**

Software Engineer

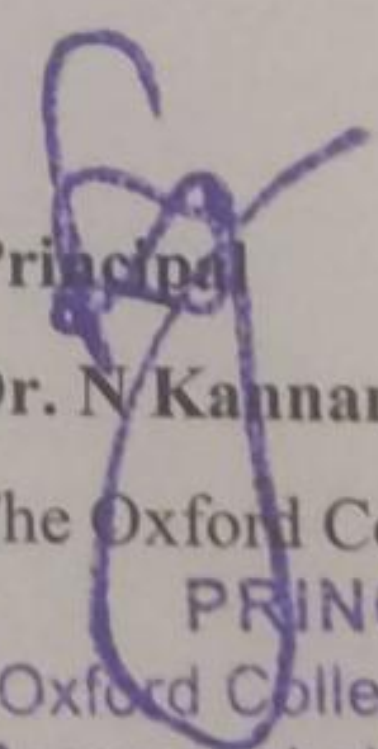
Khaga IT Creations

Bangalore

  
Head of the Department

**Dr. M. S. Shashidhar**

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

  
Principal

**Dr. N. Kannan**

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**PRINCIPAL**

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**Examiner: - Name and Signature**

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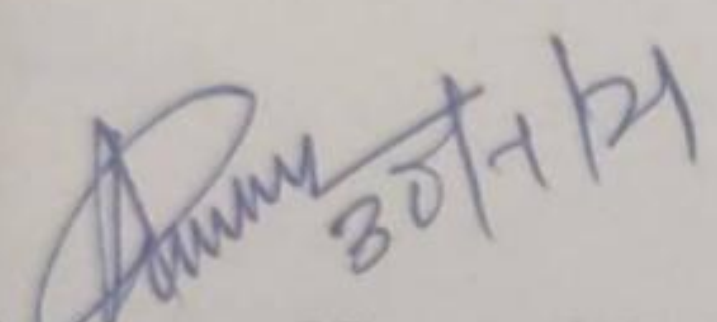
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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS



## CERTIFICATE

This is to certify that Sachin K has completed his final semester project work Title "Mining and Representation stages with structural algos" as a partial fulfillment for the award of Master of Computer Applications degree, during the academic year 2020-2021 under our joint supervision.

  
Signature of Internal Guide

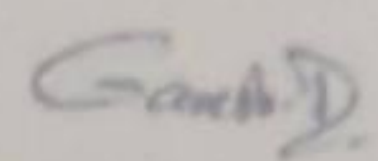
**Mr. Ashok B P**

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Signature of External guide

**Mr. Ganesh**

Team lead

Tangent pro biz

Bangalore

  
Head of the Department

Dr. M S Shashidhara

The Head  
The Oxford college of engineering

Department of MCA

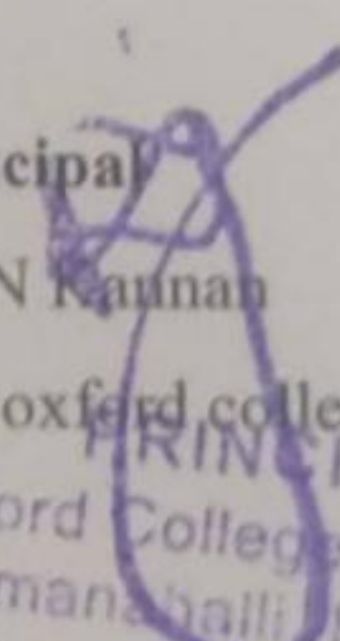
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Examiner: - Name and Signature

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Principal

Dr. N Kaunan

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Oxford College of Engineering

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Department of Master of Computer Applications,

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10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068



**CERTIFICATE**

This is to certify that Sneha Priya has completed her final semester project work Title "CONGESTION COLLAPSE CONTROL BY USING INTERNET BORDER PATROL" as a partial fulfillment for the award of Master of Computer Applications degree, during the academic year 2020-2021 under our joint supervision.

Signature of Internal Guide

Prof. UshaShree. R  
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Dept. of MCA

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Sanjeet Kumar  
S4v Tech Integrated  
Solutions Private Limited  
Senior Software Engineer

Head of the Department

Dr. M S Shashidhara  
The Head

Department of MCA

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- 1.
- 2.

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# The Oxford College of Engineering

Department of Master of Computer Applications

10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068



## CERTIFICATE

This is to certify that MANIKANTA G.M has completed his/her final semester project work Title Expression Analyzer With Digital Streaming- as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year 2020-2021 under our joint supervision.

**Signature of Internal Guide**

Mrs. Ushasree R.

Asst. Professor

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**Head of the Department**

Dr. M S Shashidhara

The Oxford College of Engineering

**The Head**

**Department of MCA**

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Bangalore-560 071

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Mr. Abhishek

Project Head

Meta Techsys

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Dr. N Kannan

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**Department of Master of Computer Applications**



**CERTIFICATE**

This is to certify that KARTHIK.K has completed his/her final semester project work Title **INTELLIGENT TOURIST PREDICATION SYSTEM FOR USING MACHINE LEARNING** as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year 2020-2021 under our joint supervision.

*Divyashree*

Signature of Internal Guide

Ms.Divyashree Nayak

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Bangalore-68

*Raghavendra*

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Mr.Raghavendra

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~~Dr.MS Shashidhara~~

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Dr.Kannan

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10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

### CERTIFICATE

This is to certify that **Jyothi Jr** has completed her final semester project work Title **CLOUD BASED TRAFFIC DATA VERIFICATION USING SMART PHONE** as a partial fulfilment for the award of **Master of Computer Applications** degree, during the academic year 2020-2021 under our joint supervision.

*Dr. Divyashree Nayak*

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Head of the Department

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Mr. Sumit Saha

Anspro Technologies

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**Department of master of computer applications**



**CERTIFICATE**

This is to certify that **Ritesh Kumar** has completed his/her final semester project work Title **COVID-19 STATUS APP FOR ANDROID** as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year 2020-2021 under our joint supervision.

*Dr. Divyashree Nayak*  
Signature of Internal Guide

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Head of the Department

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*Dr. M S Shashidhara*  
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S4VTECH Integrated  
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**Department of Master of Computer Applications**



**CERTIFICATE**

This is to certify that PUNITHA M has completed his/her final semester project work Title **“E – COMMERCE COMPUTER ACCESSORIES PORTAL WITH ADVANCE FILTERING”** as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year 2020-2021 under our joint supervision.

*D. Divyashree*

**Signature of Internal Guide**

**Ms. Divyashree Nayak**  
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*M. Gayathri Devi*



**Signature of External guide**

**Ms. Gayathri Devi**  
Software Engineer  
Techciti Pvt.Ltd  
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*[Signature]*  
**The Head**  
**Department of MCA**  
**The Oxford College of Engineering**  
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**Dept of MCA, TOCE**

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*[Signature]*  
**Principal**  
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**Department of Master of Computer Applications,**



**CERTIFICATE**

This is to certify that RANIN has completed her final semester project work Title  
“ **SCALE PREFERENCE BASED RESEARCH AND DEVELOPMENT PANEL**” as  
a partial fulfillment for the award of **Master of Computer Applications** degree,  
during the academic year 2020-2021 under our joint supervision.

**Signature of Internal Guide**

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Technical Manager  
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**The Head**  
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2.

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**Dr. N Kannan**

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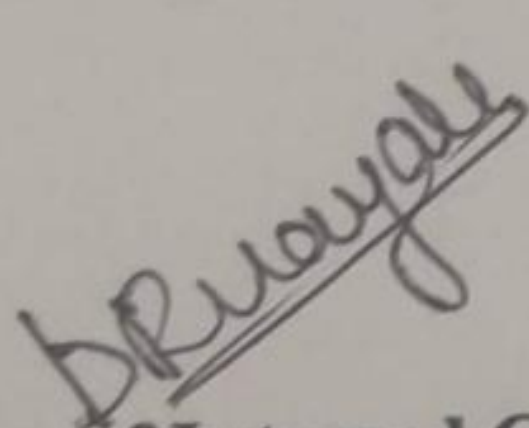
Department of Master of Computer Applications,

The Oxford College of Engineering

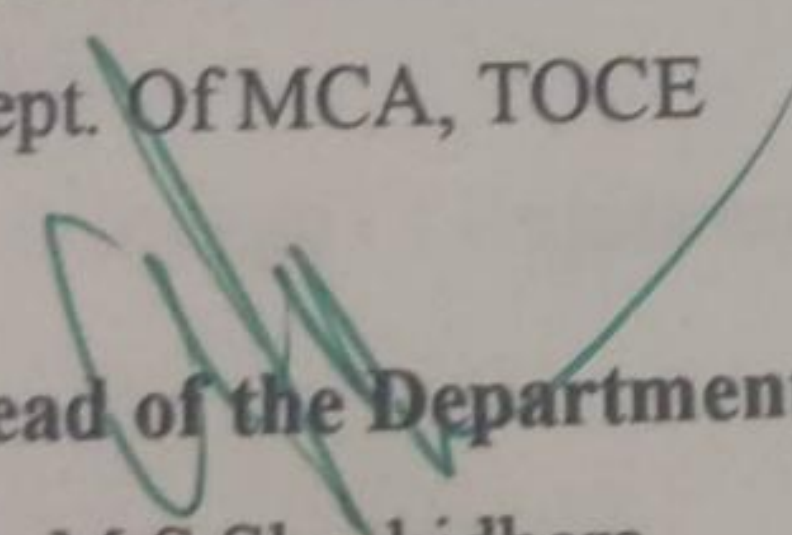
10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068

CERTIFICATE

This is to certify that Kaushtava Saha has completed his/her final semester project work Title **MOTION DETECTION USING OPENCV AND PYTHON** as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year 2020-2021 under our joint supervision.

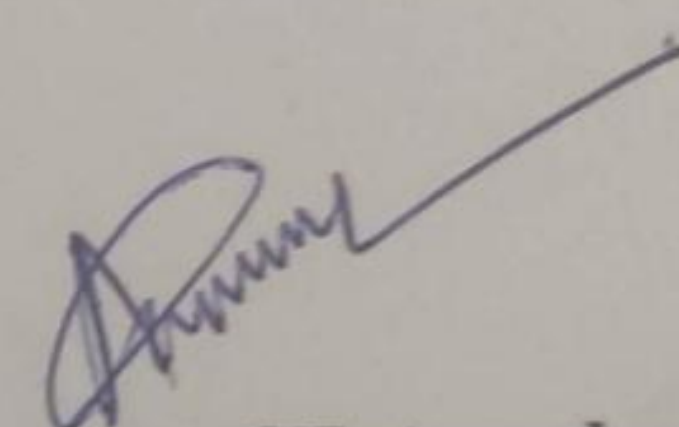
  
Signature of Internal Guide

Ms. Divyashree Nayak  
Assistant Professor  
Dept. Of MCA, TOCE

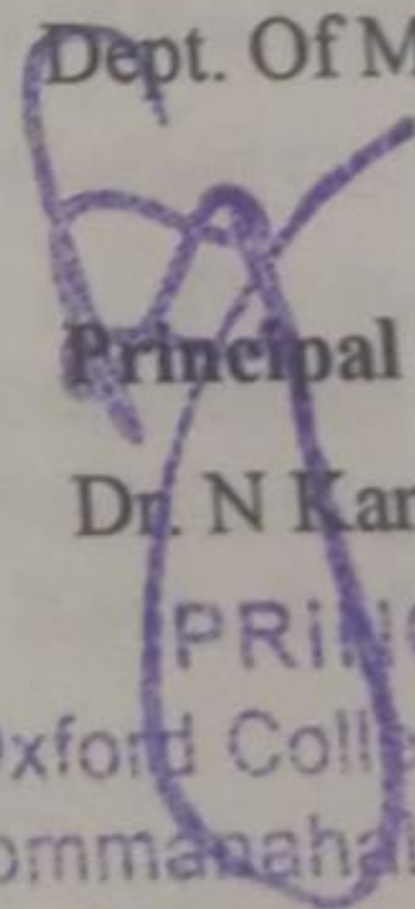
  
Head of the Department

Dr. M S Shashidhara

The Head  
Department of MCA  
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Signature of External guide

Mr. Ashok BP  
Assistant Professor  
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Principal

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**CERTIFICATE**

is is to certify that **Mandal Sushmita Ravi** has completed his/her final semester project  
Title **ADVANCED CRYPTO ANALYSIS SYSTEM FOR FILE SHARING USING  
GE COMPUTING** as a partial fulfillment for the award of **Master of Computer  
Applications** degree, during the academic year 2020-2021 under our joint supervision.



Signature of Internal Guide

Prof. Ushasree R

Dept. of MCA,  
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Assistant Professor

Signature of External guide

Ms. Kasthuri K

TechCiti Software Consulting Pvt

Project Manager

Head  
Department of MCA  
Dr. N Kannan  
Oxford College of Engineering  
Dept. of MCA,  
The Oxford College of Engineering  
BANGALORE -

Principal

Dr. N Kannan

The Oxford College of Engineering, B

**PRINCIPAL**

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

Examiner: - Name and Signature

1.

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**Department of Master of Computer Applications,  
The Oxford College of Engineering**

10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068

**CERTIFICATE**

This is to certify that C M SHAREEF has completed his/her final semester project work **CODE MERGING & BUILDING FOR SHARE VALUES ORGANIZATION** as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year 2020-2021 under our joint supervision.

**Signature of Internal Guide**

Mrs. Ushashree R  
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Mr. Abhinav M  
Ebix.biz  
Project Lead

**Head of the Department**  
**Department of MCA**  
**Dr. M S Shashidhar**  
**The Oxford College of Engineering**  
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**Hosur Road, BANGALORE -**

**Examiner: - Name and Signature**

- 1.
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**Principal**  
**Dr. N Kannan**  
**TOCE, Bengaluru**  
**PRINCIPAL**  
**The Oxford College of Eng**  
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10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068  
**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**




**CERTIFICATE**

This is to certify that **SACHIN M N** has completed his final semester project work Title **“VEHICLE TRACKING AND SEAT RESERVATION SYSTEM”** as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year **2020-2021** under our joint supervision.

*[Signature]* 30/7/2021  
**Signature of Internal Guide**  
**Mr. Ashok B P**  
Assistant Professor  
Dept of MCA  
TOCE, Bangalore-68

*[Signature]*  
**Signature of External guide**  
**Mr. Basavaraj B G**  
Team Leader  
CaptaLab's Solutions  
Bangalore



*[Signature]*  
**Department of MCA**  
**The Oxford College of Engineering**  
**Hosur Road, BANGALORE -**  
**Head of the Department**  
TOCE, Bangalore-68

*[Signature]*  
**Dr. N Kannan**  
**Principal**  
PRINCIPAL  
TOCE, Bangalore-68  
The Oxford College of Engineering  
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Bengaluru-560 068

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10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068

**CERTIFICATE**

This is to certify that **Dagur Sowmen Kartick** has completed his/her final semester project work Title **Hr Portal Application** as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year 2020-2021 under our supervision.

**Signature of Internal Guide**

Prof. Ushasree R

Dept. of MCA,  
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Assistant Professor

**Head of the Department**

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For DigitalNock IT Solutions

**Signature of External guide**

Mr. Harish Kumar V.

DigitalNock IT Solutions

Project Manager

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