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ACS College of Engineering



#207, Kambipura, Mysore Road, Bangalore – 560.074. Affiliated to VTU, Belgaum. Approved by AICTE, New Delhi & Govt. of Karnataka

DEPARTMENT OF AEROSPACE ENGINEERING

INTERNSHIP DETAILS 2017-2021

SI NO	USN	Student Name	Internship Title
i	1AH17AS002	Abhirami.K	Aerospace materials
2	1AH17AS003	Ajay Yalameli	Advanced Aerospace Materials Characterization and Modeling
3	1AH17AS005	Amrutha. H R	Aerospace Materials
4	1AH17AS006	Anushree R Koushik	Basic aerospace design
5	1AH17AS007	Arpitha.M B	Aerospace material
6	1AH17AS009	Chandana.M J	Case Studies on Aerospace Materials at CSIR-NIIST as a Virtual Intern.
7	1AH17AS010	Chandu.C P	Advanced Aerospace Materials Characterization and Modelling
8	1AH17AS011	Dhansingh Bhandari.J	Advanced Aerospace Materials Characterization and Modeling
9	1AH17AS013	Jagadish.J	Case studies on Aerospace Materials
10	1AH17AS014	Jayadarth Sudhakar Poojary	Drone Engineering
11	1AH17AS015	Jiji C Joy	Advanced Aerospace Materials
12	1AH17AS016	Jijin P Savyar	Advanced Aerospace Materials Characterization & Modeling
13	1AH17AS017	M.Ashok Kumar	Advanced aerospace materials characterization and modelling
杨林点	IAH17AS018	Mahendar B.St	Advanced aerospace materials characterization and modeling
15	1AH17AS019	Minhazul Hussain	HAL ARDC
16	1AH17AS021	Nitin.B L	Advance aerospace materials and characterization
17	1AH17AS023	Prajna. H N	Basic Aerospace Design
L	<u> </u>		Pr.

HOD

Department of Aerospace Engineering, ACS College of Engineering 207 Kambipura Mysma Road Bangatora-560074



ACS College of Engineering









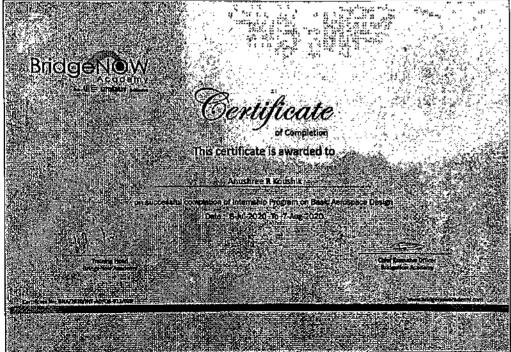
#207, Kambipura, Mysore Road, Bangalore – 560 074. Affiliated to VTU, Belgaum. Approved by AICTE, New Delhi & Govt. of Karnataka

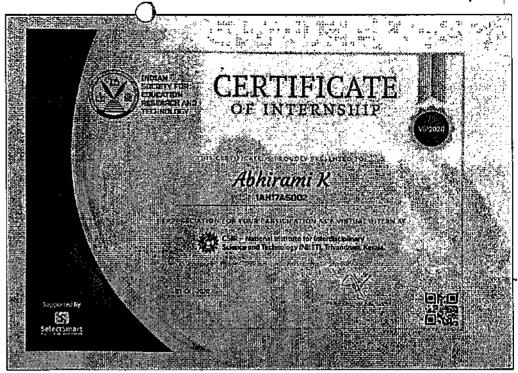
DEPARTMENT OF AEROSPACE ENGINEERING **INTERNSHIP DETAILS 2017-2021**

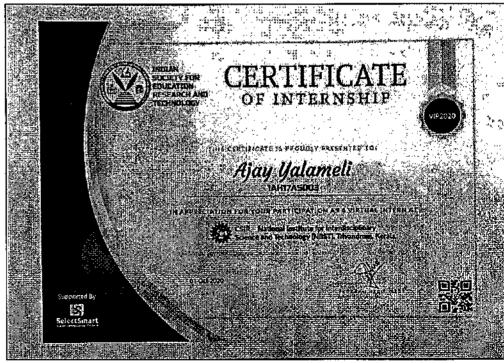
SI NO	USN	Student Name	Internship Title
18	1AH17AS024	R.Sai Bhuvan	Exploring the Landscape of Machine Learning and AI at the edge of Industrial Automaton
19	1AH17AS025	Renisha Ruth Pereira	Structural design analysis and integration of VTOL technology in commercial aviation
20	1AH17AS026	Ruthvik Vijayakumar Joshi	Artificial Intelligence and Machine Learning
21	1AH17AS027	Sankeerthana.M	ORGANIZATIONAL STUDY ON SANSERA ENGINEERING
22	1AH17AS028	Sanketh Shivaji Naharkar	Aero design
23	1AH17AS029	Sarvesh.J	Advanced Aerospace Materials Characterization & Modeling: Characteristics and Applications of Precipitation Hardening Stainless Steel (17-4PH)
24	1AH17AS030	Sathya Moorthy.K	Advanced Aerospace Materials Characterization and Modelling
25	1AH17AS031	Sharon.V	Basic Aerospace Design
26	1AH17AS032	Sidhapara Mitul Mukesh Bhai	Advanced aerospace materials characterization and modelling
27	1AH17AS034	Srigowri.A	Performance Analysis of Aeroengine with Twin Turbo Charger
28	1AH17AS036	Suneha.R	Experimental and Numerical Investigation of Spoiler and Canards Impact on Aerodynamics Properties of a Car
29	1AH17AS037	Tarun.K	Machine Learning
30	1AH17AS040	Yukthashree.H M	Advanced Aerospace Materials

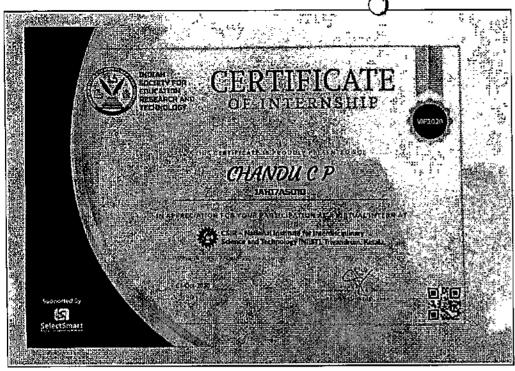


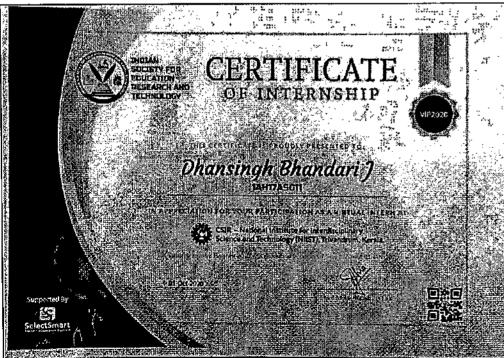












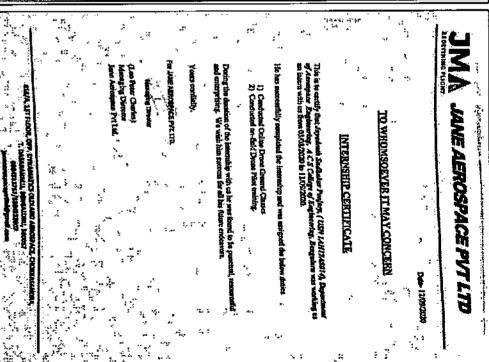


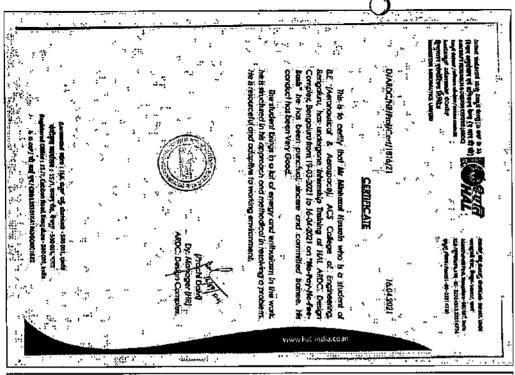






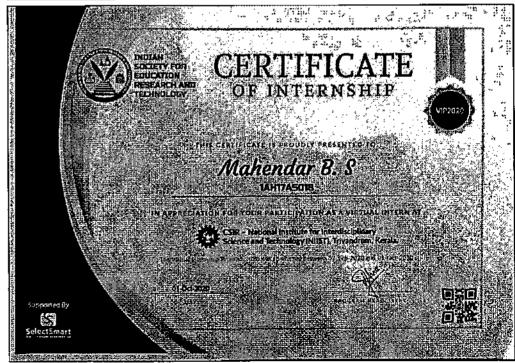






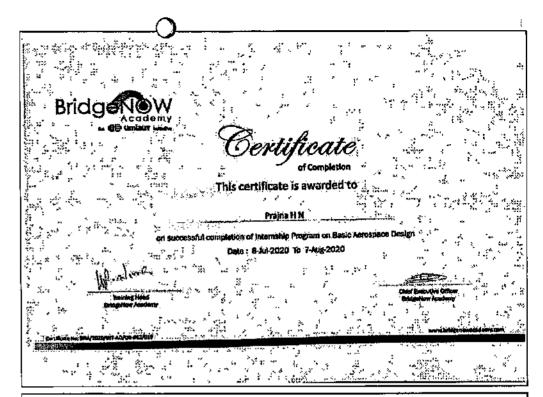


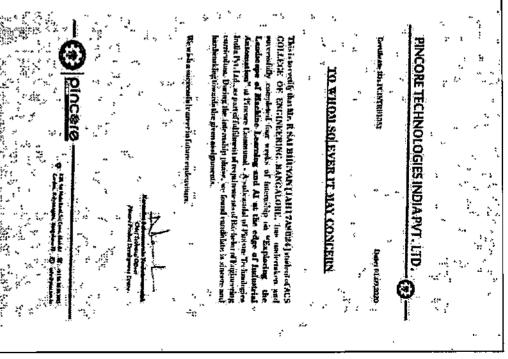


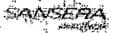












Date: 21 Oct 2020

TO WHOM SO EVER IT MAY CONCERN

This is a certily High fels. Sankosirthans M (1.4:117ASO27), student of ACS. College of Engineering, Bengaluru - Schöffel, that surgessfully complete action interesting in our deganisation from (2.2 Sep 2020 to 21 Oct 2020).

We wish her all the best in her luture endeadours

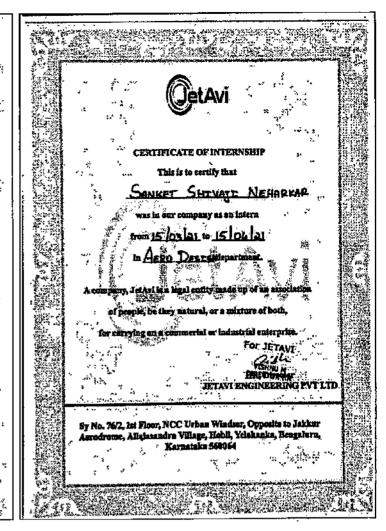
For Sansora Engineering Limited

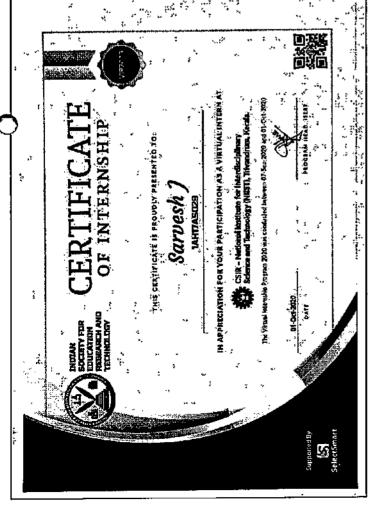
Vijavendra Kumar il S

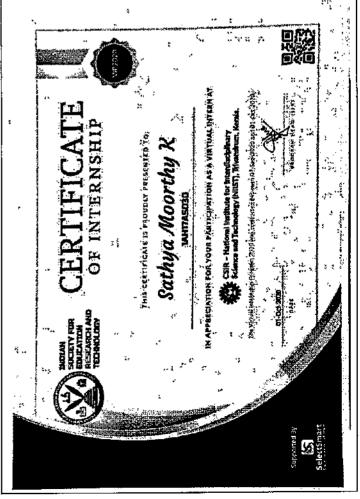
Deputy Manager - HR

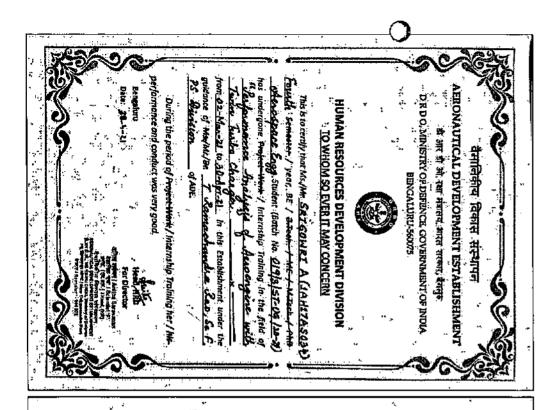
SANSERA ENGINEERING LIMITED

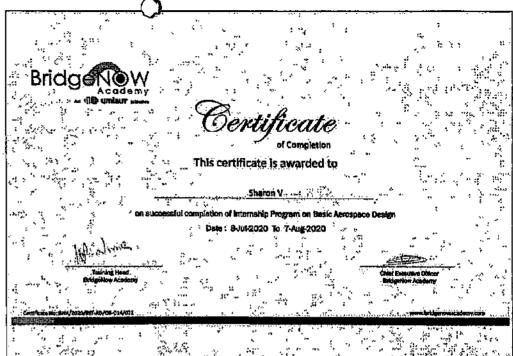
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TERNSHIP CERTIFICATE

This is to certify that

- Suneha R

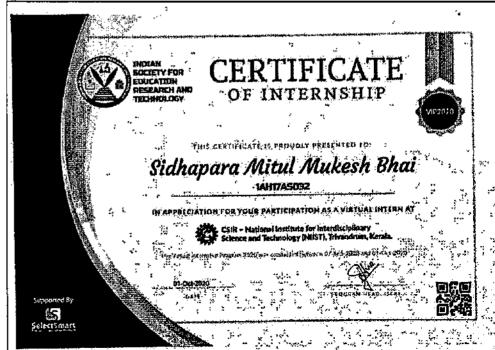
has undergone a 30 days internship training programme from 01/03/2021 to 19/04/2021.

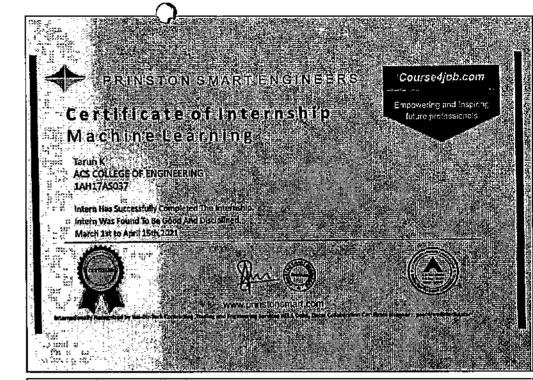
In the department of Research and Development

Contriver, Bengaluru. Under the guidance of Yogenba. HT

and the grade awarded to the intern for the internship project is









Date: 17-08-2020

To,

HR Manager,

Maini Aerospace,

112/C,

Bommasandra Industrial Area,

Bangalore 560099.

Respected Sir/Madam,

Sub: Permission request to do internship at your esteemed organisation

With reference to the above subject, we request your kind self to grant permission to do internship for Ms. Amrutha.H.R D/o Mr. Ramesha.H.P,
BEARING University Seat Number 1AH17AS005, who is bonafide Student of ACS
College of Engineering. Studying in B.E Semester of Aerospace Engineering
Branch during the academic year 2019-2020. She bears good conduct.

She can undergo Internship at your facility, if permitted tentatively for a total of 4 weeks.

Anticipating affirmative reply from your end.

Thanking you and looking for your kind operation.

Sincerely, 207 Kambustore 560074

Head, Dept of Aerospace Engineering

Dr. R Mukesh

Date: 17-08-2020

To,

HR Manager,

Maini Aerospace,

112/C,

Bommasandra Industrial Area,

Bangalore 560099.

Respected Sir/Madam,

Sub: Permission request to do internship at your esteemed organisation

With reference to the above subject, we request your kind self to grant permission to do internship for Ms. Sankeerthana.M D/o Mr. Mohan Kumar, BEARING University Seat Number 1AH17AS027, who is bonafide Student of ACS College of Engineering. Studying in B.E Semester of Aerospace Engineering Branch during the academic year 2019-2020. She bears good conduct.

She can undergo Internship at your facility, if permitted tentatively for a total of 4 weeks.

Anticipating affirmative reply from your end.

Thanking you and looking for your kind operation.

Sincerely,

Department of Aerospace Engineering.
ACS College of Engineering

Head, Dept of Aerospace Engineering

Dr. R Mukesh

ACS COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING

207, Kambipura, Kengeri, Mysore Road, Bangaluru – 560074



CERTIFICATE

This is to certify that dissertation entitled "Analysis And Design Of Residential Tower" being submitted by ROHIT M (1AH13CV031), GURUPRASAD G H (1AH13CV011), ZARAR ATHAR (1AH13CV044), VINAY KOTAGI

(1AH13CV043) to Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of Civil Engineering" is a record of bonafide work carried out by him during the year 2016 - 2017. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

GUIDE

Assistant Professor

HOD

Head of Department

enkatesh Babu

A.C.S. conelles imaineering

PRINCIPAL

Department of Civil Engineering Department of Civil Engineering Engineering Engineering Bangatore

DE DLV BASU

DEPARTMENT OF CIVIL ENGINEERING

#207, Kambipura, Kengeri, Mysore Road, Bengaluru - 560074



CERTIFICATE

This is to certify that Project report entitled." SEISMIC ANALYSIS AND DESIGN OF OFFICE BUILDING "being submitted by

PRASAD. R

1AH14CV407

RAKSHITH .S . SHELLIKERI

1AH14CV410

RAMESHA. K

1AH14CV411

HARISH . V

1AH13CV405

To Visvesvaraya Technological University, Belagavi for the award of "Bachelor of Engineering" in Civil Engineering is a record of bonafide work carried out by us during the year 2016 - 2017. The report has been approved as it satisfies the academic requirement in respect of Project work prescribed for the above said degree.

Dr. DL VENKATESH BABU

Assistant Professor

Department of Civil Engineering ACS College of Engineering

Professor and Head Department of Civil Engineering . A.CACS Gullege Str Engineering ACS College of Engineering

PRINCIPAL

Kambipura, Mysore Road, Kenge

Bangalore - 560 074

Name of Examiners

Signature and Date

1. DEV BABU 2. KAMALALARA

DEPARTMENT OF CIVIL ENGINEERING

207, Kambipura, Kengeri, Mysuru Road, Bengaluru - 560074



CERTIFICATE

This is to certify that dissertation entitled "EXPERIMENTAL INVESTIGATION ON BEHAVIOUR OF CONCRETE USING RECYCLED WASTE" being submitted by

SHASHIDHAR GOWDA BG (1AH15CV416)

MAHADEVA NC (1AH15CV408)

HEMASHANKAR M

(1AH13CV012)

VENUGOPAL P (1AH13CV042)

to Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of civil engineering", is a record of bonafide work carried out by him during the year 2017 -2018. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

GUIDE

Dr. D.L VENKATESH BABU

Assistant Professor Department of Civil Engineering ACS College of Engineering

Professor and Head Department of Civil Engineering ACS College of Engineering

PRINCIPAL

ACS College of

Engineering

Bengaluru

Examiners

Cayotana N

2

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207, Kambipura, Kengeri, Mysuru Road, Bengaluru - 560074



CERTIFICATE

This is to certify that dissertation entitled "INVESTIGATION ON PROPERTIES OF SCC WITH DOLOMITE POWDER" being submitted by

SUSHMA K (1AH13CV040)

PRAKRUTHI H (1AH13CV025)

ROHIT K (1AH13CV030) MAHESH BABU (1AH13CV018)

to Visvesvaraya Technological University, Belagavi for the award of "DEGREE IN BACHELOR OF CIVIL ENGINEERING", is a record of bonafide work carried out by them during the year 2017 - 2018. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

GUIDE

ASSISTANT Professor Department of Civil Engineering Department of Civil Engineering Department of Civil Engineering Department of Civil Engineering

ACS College of Engineering

VENKATESH BABU

Professor and Head

PRINCIPAL

A.C.S. College of Engineering

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Examiners

Gayathura Veena N

DEPARTMENT OF CIVIL ENGINEERING

#207, Kambipura, Kengeri, Mysore Road, Bengaluru – 560074



CERTIFICATE

This is to certify that seminar report entitled "EXPERIMENTAL INVESTIGATION REINFORCED FIBRE STEEL OF **BEHAVIOUR** THE ON CONCRETE"being submitted, by MonikaBhargavi A R (1AH14CV025), Rohith K N T S (1AH14CV048) to (1AH15CV412), Manjunatha V (1AH14CV021), Yuvaraj Visvesvaraya Technological University, Belagavi for the award of "Bachelor of Engineering" in Civil Engineering, is a record of bonafide work carried out by him during the year 2017- 2018. The report has been approved as it satisfies the academic requirement in respect of Seminar work prescribed for the above said degree.

MRS. KAVITHA S

Assistant Professor

Of dept civil engineering

Dr. D L VENKATESH BABU

Professor and Head of dept of civil

engineering

ACS College of Engineering

Dr. M SMURALI

ACS College of

Engineering

DEPARTMENT OF CIVIL ENGINEERING 207, Kambipura, Kengeri, Mysuru Road, Bengaluru - 560074



CERTIFICATE

This is to certify that dissertation entitled "OPTIMIZATION OF RESERVOIR OPERATION USING LINEAR PROGRAMMING" being submitted by

MAHESH N (1AH14CV020)

VANAJAKSHI H (1AH14CV044)

POOJA N (1AH14CV030) SRINIVAS MURTHY H S (1AH15CV417)

to Visvesvaraya Technological University, Belagavi for the award of "DEGREE IN BACHELOR OF CIVIL ENGINEERING", is a record of bonafide work carried out by them during the year 2017 - 2018. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

Dr. KUMAR RAJU B C

Associate Professor Department of Civil Engineering Department of Civil Engineering ACS College of Engineering

Dr. D.L VENKATESH BABU

Professor and Head ACS College of Engineering Dr. M. S MURALI

ACS College of Engineering Bengaluru

Royalhie a
Velna N

Signature with date

Cy 14/6/18

207, Kambipura, Kengeri, Mysore Road, Bangalore - 560074



CERTIFICATE

This is to certify that dissertation entitled "PERFORMANCE OF PERVIOUS CONCRETE PAVEMENT" being submitted by

MEGHESH (1AH12CV010)

RAVINDRA KUMAR (1AH12CV014)

VINAY (1AH12CV022)

BALAJI B V (1AH12CV025)

to Visvesvaraya Technological University, Belagavi for the award of "DEGREE IN BACHELOR OF CIVIL ENGINEERING", is a record of bonafide work carried out by them during the year 2017 - 2018. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

GUIDE

Associate Professor

Department of Civil Engineering Department of Civil Engineering A.C. Engineering ACS College of Engineering

Dr. D.L VENKATESH BABU

Professor and Head

ACS College of Engineering

PRINCIPAL

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Bangalore - 560 074

Examiners

1. CHUALALLARA

Gayatha &

Signature with date

ag 13/6/18

DEPARTMENT OF CIVIL ENGINEERING

207, Kambipura, Kengeri, Mysuru Road, Bengaluru - 560074



CERTIFICATE

This is to certify that dissertation entitled "STUDIES ON FRESH AND HARDENED PROPERTIES OF M-20 GRADE CONCRETE USING RECYCLED RMC WASTE COARSE AGGREGATES" being submitted by

PRAGATHIR (1AH14CV031) HAMSASHRIS (1AH14CV015) BHARAT N (1AH14CV008)

to Visvesvaraya Technological University, Belagavi for the award of "DEGREE IN BACHELOR OF CIVIL ENGINEERING", is a record of bonafide work carried out by them during the year 2017 – 2018. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

Dr. KUMAR RAJU B C

Associate Professor Department of Civil Engineering Department of Civil Engineering ACS College of Engineering

Dr. D.L VENKATESH BABU

Professor and Head ACS College of Engineering

Dr. M. S MURALI

ACS College of Engineering Bengaluru

Examiners

Gayather. a Veena N

Signature with date

agr 14/6/18

DEPARTMENT OF CIVIL ENGINEERING 227, Kambipura, Kengeri, Mysuru Road, Bengaluru - 560074



CERTIFICATE

This is to certify that project report entitled "STUDIES ON FRESH AND HARDENED PROPERTIES OF M-20 GRADE CONCRETE USING RECYCLED RMC WASTE COARSE AGGRGATES"being submitted by Mr. MOHAN KUMAR K bearing USN: 1AH15C409, to Visvesvaraya Technological University, Belagavi for the award of "BACHELOR OF ENGINEERING" in Civil Engineering, is a record of bonafide work carried out by him during the year 2017-2018. The report has been approved as it satisfies the academic requirement in respect of Seminar work prescribed for the above said degree.

ACS College of Engineering

Dr.KUMAR RAJU B.CDr. SANJEEV GADAD Dr. D.L VENKATESH BARY 074.

Associate Professor

Associate Professor

Professor and Head

Department of Civil Engineering Department of Civil Engineering Department of Civil Engineering

ACS College of Engineering

ACS College of Engineering

ACS College of Engineering

1. H. Natendra Kumar 2. Dr SHARMILA GV

DEPARTMENT OF CIVIL ENGINEERING

207, Kambipura, Kengeri, Mysuru Road, Bengaluru - 560074



CERTIFICATE

This is to certify that dissertation entitled "RAINFALL RUNOFF MODELLING USING ARTIFICIAL NEURAL NETWORK" being submitted by

THRIVENI P

(1AH15CV418)

HARSHITHA H

(1AH14CV016)

DEEKSHITH N

(1AH14CV014)

NAGAPPA

(1AH15CV410)

to Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of civil engineering", is a record of bonafide work carried out by them during the year 2017 -2018. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

Dr. SANJEEV GADAD

Dr. D.L VENKATESH BABU

Dr. M. S MURALI

Associate Professor Department of Civil Engineering Department of Civil Engineering ACS College of Engineering

Professor and Head ACS College of Engineering ACS College of Engineering Bengaluru

Examiners

Signature

DEPARTMENT OF CIVIL ENGINEERING 207, Kambipura, Kengeri, Mysuru Road, Bengaluru - 560074



CERTIFICATE

This is to certify that dissertation entitled "PERFORMANCE AND EVALUATION OF SELF COMPACTING GEO POLYMER CONCRET" being submitted by

ANJAN KUMAR S (1AH13CV004)

(1AH13CV004) JASHWANTH DE (1AH14CV017)

RAJESH KUMAR J (1AH15CV411)

to Visvesvaraya Technological University, Belagavi for the award of "DEGREE IN BACHELOR OF CIVIL ENGINEERING", is a record of bonafide work carried out by them during the year 2017 – 2018. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

GUIDE& HOD

Dr. D.L VENKATESH BABU

Professor and Head

Department of Civil Engineering

ACS College of Engineering

PRINCIPAL

Dr. M. S MURALI

ACS College of

Engineering

Bengaluru

Examiners Kanalacara

1.

Signature with date

Coloph

DEPARTMENT OF CIVIL ENGINEERING

207, Kambipura, Kengeri, Mysuru Road, Bengaluru - 560074



CERTIFICATE

This is to certify that dissertation entitled "Experimental Investigation on Flexural Behavior of Bamboo Reinforced Concrete Members" being submitted by

Neelamma Mahantagouda Patil Chetan S Mellalli

1AH14CV028 1AH15CV401

Kavitha S N Diwakar M

1AH15CV406 1AH15CV403

to Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of civil engineering", is a record of bonafide work carried out by us during the year 2017 -2018. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

Mrs. KAVITHA S

Dr. D.L VENKATESH BABU

Principal A.C.B. Cotte of Pringingering

Assissant Professor Department of Civil Engineering Department of Civil Engineering

Professor and Head

Kambipura Mysere Beads Kengeri Finoli,

ACS College of Engineering

ACS College of Engineering

Engineering 560 074

Bengaluru

Examiner Name

1) Gayathera 2) Yeena X

Signature

DEPARTMENT OF CIVIL ENGINEERING

#207, Kambipura, Kengeri, Mysore Road, Bengaluru - 560074



CERTIFICATE

This is to certify that seminar report entitled "PERFORMANCE EVALUATION OF STP FOR THE TREATMENT OF DOMESTIC WASTEWATER AT RAJARAJESHWARI MEDICAL COLLEGE AND HOSPITAL PREMISES" being submitted, by Rachana M D (1AH14CV032), Prasad J (1AH13CV413), Manjunath T (1AH14CV404), Suraj Hiremath (1AH14CV041) to Visvesvaraya Technological University, Belagavi for the award of "Bachelor of Engineering" in Civil Engineering, is a record of bonafide work carried out by us during the year 2017- 2018. The report has been approved as it satisfies the academic requirement in respect of Project work prescribed for the above said degree.

GUIDE

Gaycething

Mrs.GAYATHRI G

Assistant Professor

Department of Civil Engineering

ACS College of Engineering

ENKATESH BABU

Professor and Head

Department of Civil Engineering

ACS College of Engineering

Professor

ACS College of Engineering

Name of The Examiners

1. JEANALAICARA 2. Gaypathei. a

Signature& Date

agrand 13/6/18

DEPARTMENT OF CIVIL ENGINEERING 207, Kambipura, Kengeri, Mysuru Road, Bengaluru - 560074



CERTIFICATE

This is to certify that dissertation entitled "ANALYSIS AND DESIGN OF MULTI-STORIED RESIDENTIAL BUILDING" being submitted by

BHUVANA D (1AH13CV007) YASAR ARAFATH M (1AH14CV047)

DARSHAN H K (1AH14CV013) ABHINAND T M (1AH15CV400)

to Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of civil engineering", is a record of bonafide work carried out by him during the year 2017 -2018. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

1. 2.

Prof.SHIVA SHANKAR K M

Associate Professor ACS College of Engineering Dr. D.L VENKATESH BABU

Professor and Head Department of Civil Engineering Department of Civil Engineering ACS College of Engineering

Dr. M. S MURULI

ACS College of Engineering Bengaluru

ACS COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING

227, Kambipura, Kengeri, Mysuru Road, Bengaluru - 560074



CERTIFICATE

This is to certify that the project report on "STABILIZATION OF BLACK COTTON SOIL" being submitted by CHETAN N, bearing USN: 1AH15CV007, SANJAY R bearing USN: 1AH15CV033 and SHREYAS G bearing USN: 1AH15CV036.

To Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of Civil Engineering" is a record of bonafide work carried out by us during the year 2018 - 2019. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

GUIDE

KUMAR RAJU B C Associate Professor Department of Civil Engineering HOD

Dr. DY VENKATESH BABU

Professor and Head

Department of Civil Engineering

PRINCIPAL

ACS College of

Engineering, Bangalore

Examiner

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ACS COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING

227, Kambipura, Kengeri, Mysuru Road, Bengaluru - 560074



CERTIFICATE

This is to certify that the project report on "MANUFACTURING OF BRICK FROM WASTE PLASTIC being submitted by DARSHAN C G, bearing USN: 1AH15CV011

To Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of Civil F ngineering" is a record of bonafide work carried out by us during the year 2018 - 2019. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

HOD

PRINCIPAL

GUIDE

Dr. S. KAVITHA

Associate Professor

Department of Civil Engineering

Engineering, Bangalore

Professor and Head

Department of Civil

Dr. MS MURAI

ACS College of

Engineering

Examiners

Signature with date

PRALASTED GOLF, Ramarque

ACS COLLEGE OF ENGINEERING BANGALORE-560074



Department of Civil Engineering

CERTIFICATE

Certified that the project work entitled "AN EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF CEMENT AND FINE AGGREGATES BY STAINLESS STEEL SLAG" carried out by RAKSHITH N (1AH14CV033), THARUN S NIKKAM (1AH14CV043), PRABHUDEV N S (1AH15CV030), CHANDAN KISHORE K (1AH16CV402) are bonafide students of ACS College Of Engineering in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering stream of Visvesvaraya Technological University Belagavi, during the academic year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project work report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Mrs. PALLAVI H J

Assistant Professor Department of Civil Engineering

Regallico S Dr. D L VENKATESH BABU

Professor and Head of Department of Civil Engineering Dr. M S MURALI

ACS College of Engineering, Bangalore

Examiners

1. Gayatria
2. PRotestett)

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ACS COLLEGE OF ENGINEERING BANGALORE-560074



Department of Civil Engineering

CERTIFICATE

Certified that the project work entitled "EXPERIMENTAL STUDY ON AUTOCLAVED AERATED CONCRETE BLOCKS" carried out by Adhithya (1AH14CV050), Abhishek R Naik (1AH16CV400), Mohan Kumar K M (1AH16CV413), Chethan H R (1AH16CV429) are bonafide students of ACS College Of Engineering in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering stream of Visvesvaraya Technological University Belagavi, during the academic year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project work report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

B.M. Shu Shy Mr. SHIVA SHANKAR K M

Assistant Professor Department of Civil Engineering Dr. D L VENKATESH BABU

Professor and Head Of Department of Civil Engineering Dr. MS MURALI ACS College of

Engineering, Bangalore

Examiners

1. Chayabria
2. PRARASHID

ACS COLLEGE OF ENGINEERING BANGALORE-560074



Department of Civil Engineering

CERTIFICATE

Certified that the project work entitled "AN ASSESSMENT OF GROUNDWATER QUALITY IN AND AROUND KENGERI (Bangalore)" carried out by Mr. MANIKANDAN J, NAGARAJA KC, VIJAY K bearing USN 1AH16CV426, 1AH16CV414, 1AH16CV420. A bonafide student of ACS College Of Engineering in partial fulfilment for the award of Degree in Bachelor of Engineering in Civil Engineering stream of Visveswaraiah Technological University, Belagavi during the academic year 2018–2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report 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 Principal

Dr. MS MURALI

ACS College of Engineering Bangalore.

Bignature of the Guides

Dr. KUMAR RAJU BC

Associate Professor, Department of Civil Engineering, ACSCE, Bangalore Signature of the HOD

Dr. DL VENKATESH BABU

Department of Civil Engineering, ACSCE, Bangalore

Signature of the Examiner

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ACS COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING

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CERTIFICATE

This is to certify that dissertation entitled "DESIGN AND ANALYSIS OF A RESIDENTIAL BUILDING BY CONSIDERING SEISMIC LOADS" being submitted by SYED AL WAZZAINULLA(1AH14CV042) DADA HAYATH (1AH15CV010) DIWAKAR KURMI (1AH15CV013)

To Visvesvaraya Technological University, Belagavi for the award of " DEGREE IN BACHELOR OF CIVIL ENGINEERING", is a record of bonafide work carried out by them during the year 2018-2019. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

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Department of Civil Engineering

CERTIFICATE

Certified that the project work entitled "EXPERIMENTAL STUDY ON GEOPOLYMER CONCRETE USING GGBS AND METAKAOLIN" carried out by Ms SUKRUTHA M V (1AH16CV428), Ms DIVYASHREE S (1AH16CV403), Mr SWAMY K P (1AH16CV418), a bonafide student of ACS College Of Engineering in partial fulfilment for the award of Degree in Bachelor of Engineering in Civil Engineering stream of Visveswaraiah Technological University, Belagavi during the academic year 2018–2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report 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

Associated Professor, Dept. of Civil Engineering, ACSCE, Bangalore Signature of the HOD (Ja)
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Dept. of Civil Engineering, ACSCE, Bangalore Signature of the Principal

Dr. MS MURALI

ACSCE, Bangalore

Name of the Examiner

1. Reyour a

Get form

Signature with Date:

15/6/19



CERTIFICATE

This is to certify that dissertation entitled "ANALYSIS & DESIGN OF MULTISTORIED RC BUILDING" being submitted by

KARTHIK SWAROOP KUMAR S (1AH15CV017)

PRUTHVI R (1AH15CV031)

SUMA S (1AH15CV040)

TEJASHWINI K N (1AH15CV045)

To Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of Civil Engineering", is a record of bonafide work to be carried out by us during the year 2018-19 .The Project Report has been approved as it satisfies the academic requirement in respect to project work prescribed for the said degree.

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Assistant Professor Department of Civil Engineering

Dr. D L VENKATESH BABU

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Dr. M S MURALI

ACS College of Engineering, Bengaluru

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CERTIFICATE

This is to certify that dissertation entitled

"Removal of struvite from the wastewater" being submitted by

INCHARA BH (1AH15CV016)

APOORVA B (1AH15CV004)

LAKSHMI K (1AH15CV018)

NISARGA J (1AH15CV027)

To Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of Civil Engineering", is a record of bonafide work to be carried out by us during the year 2018-19. The synopsis report has been approved as it satisfies the academic requirement in respect to project work prescribed for the said degree.

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CERTIFICATE

This is to certify that the project report on "INVESTIGATIONS ON BEHAVIOR OF STABILIZED MUD BLOCK WITH BAMBOO FIBERS" being submitted by RAKESH D R, bearing USN: 1AH15CV032.

To Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of Civil Engineering" is a record of bonafide work carried out by us during the year 2018 - 2019. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

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CERTIFICATE

This is to certify that the project report on "ANALYSIS OF HYBRID POWER submitted GENERATION SYSTEM ON ACS CAMPUS" being NAVYASHREE A N (1AH15CV024), JAFAR PINJAR (1AH16CV408), LAVANYA B V (1AH15CV051), SWAPNIL PATIL (1AH15CV042). To Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of Civil Engineering" is a record of bonafide work carried out by us during the year 2018 - 2019. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

GUIDE

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ACS COLLEGE OF ENGINEERING BANGALORE-560074



Department of Civil Engineering

CERTIFICATE

Certified that the project work entitled "STRENGTHENING OF DISTRESSED CONCRETE CYLINDERS USING CARBON FIBER REINFORCED POLYMER" carried out by Ms. RASHMI J (1AH16CV427), Ms. PAVITHRA (1AH15CV025), **NEELAVENI** C Ms. (1AH15CV029), MUTHUSNEHA V(1AH15CV021), a bonafide student of ACS College Of Engineering in partial fulfilment for the award of Degree in Bachelor of Engineering in Civil Engineering stream of Visveswaraiah Technological University, Belagavi during the academic year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report 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 Quide

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2. PRARASHI)

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CERTIFICATE

This is to certify that project report entitled "DESIGN AND ANALYSIS OF submitted ETABS" being BUILDING USING OFFICE Visvesvaraya 1AH14CV001, to USN bearing R Mr.ABHISHEK Technological University, Belagavi for the award of "BACHELOR OF ENGINEERING" in Civil Engineering, is a record of bonafide work carried out by him during the year 2018-2019. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the above said degree.

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CERTIFICATE

This is to certify that the project on "STABILIZATION OF BLACK COTTON SOIL" being submitted by BHASKARA T, bearing USN: 1AH15CV005.

To Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of Civil Engineering" is a record of bonafide work carried out by us during the year 2018 – 2019. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

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1. H. Novendra kuna

, SHALMILA

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Gue 3/12/18

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CERTIFICATE

This is to certify that project report entitled "DEFLUORIDATION OF GROUND WATER USING LOW COST ADSORBENTS" being submitted by Mr.MUTHESH GOWDA M J bearing USN 1AH14CV026, to Visvesvaraya Technological University, Belagavi for the award of "BACHELOR OF ENGINEERING" in Civil Engineering, is a record of bonafide work carried out by him during the year 2018-2019. The report has been approved as it satisfies the academic requirement in respect of Seminar work prescribed for the above said degree.

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Signature with date

Bengaluru - 560074

Department of Civil Engineering



CERTIFICATE

Certified that this Technical seminar presentation being made by MEGHA A NIMBALKAR bearing USN 1AH16CV024, a bonafied student of ACS college of engineering in partial fulfillment for the award of bachelor degree in Civil engineering of Vishvesvaraya Technological University, Belagavi is a Reoprt of the activities undertaken by him during the period 08TH JULY to 07th AUGUST 2019.

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CERTIFICATE

This is certify that the project on "Comparative study on pervious concrete using hybrid fibers" has been successfully carried out by K N THRIVENI (1AH16CV018), SRUJAN S (1AH15CV037), HARSHITHA H K (1AH16CV014), SANCHITHA C J (1AH16CV036) in partial fulfillment of 8th semester B.E. Civil Engineering during the academic year 2019-2020 prescribed by the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI for the award of "Bachelor of Civil Engineering"

Signature of Guide

Prof. VISHAL B V

Department Of Civil Engineering,

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Signature of HOD

Dr. S Kavitha

Department Of Civil Engineering,

ACSCE, Bangalore-74

Dr. M S Murali

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CERTIFICATE



This is to certify that the Project work (15CV85) "HYBRID FIBER REINFORCED CONCRETE USING STEEL FIBER AND GLASS FIBER IN SELF COMPACTING CONCRETE (SCC)"has been successfully carried out by JAINUL HABID P N (1AH16CV016), SHARATH U B(1AH16CV040), VIVEK K R(1AH16CV048) and RAKESH RANJAN (1AH16CV029) to Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of Civil Engineering" is a record of bonafide work carried out by us during the year 2018 – 2019. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

14/08/20

Signature of the guide

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Signature of Principal

Dr. M S MURALI

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Signature with date

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CERTIFICATE

This is to certify that the "Fluoride removal in drinking water using low cost adsorbent" has been successfully carried out by MARY SHUBA M S (1AH14CV023), SUPRITHA K N (1AH14CV040), AISHWARYA (1AH16CV002) in partial fulfillment of 8th semester B.E. Civil Engineering during the academic year 2019-2020 prescribed by the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI for the award of "Bachelor of Civil Engineering".

Under The Guidance

Prof Gayathri G

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Head of the department

Dr. S Kavitha

Department Of Civil Engineering,

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Dr. M S Murali

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CERTIFICATE

This is to **CERTIFY** that the Project on **Experimental study on glass fibers** Recron3s reinforced concrete with GGBS for partial replacement of cement" has been Successfully Carried out by,

SADANANDA GOWDA (1AH17CV406)

SUSHEEL KUMAR S(1AH15CV041)

YOGESH.H

(1AH16CV049)

SHARATH K.G. (1AH15CV035)

in partial fulfilment of 8th semester **B.E. Civil Engineering** during the academic year 2019-20 prescribed by the VISVESVARAYA TECHNOLOGICALUNIVERSITY, **BELAGAVI** for the award of "**Degree of civil engineering**."

Signature of guide:

ASST. PROF. MAMATHA PG.

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ACSCE, Bangalore.

DR. S KAVITHA.

HOD, Dept. of civil Engineering

ACSCE, Bangalore.

Signature of Principal

Dr. MS. MURALI.

ACSCE, Bangalore

CERTIFICATE



This is to certify that the Project work (15CV85) "Experimental investigation of Ultra High performance of concrete using Alccofine and Steel fibres" has been successfully carried out by AYYANNA (1AH16CV006), BHARATH M N (1AH16CV008) CHANDAN (1AH16CV009) and DHANRAJ R (1AH16CV011), to Visvesvaraya Technological University, Belagavi for the award of "Degree in Bachelor of Civil Engineering" is a record of bonafide work carried out by us during the year 2018 – 2019. The report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

Signature of the guide

Dr SHARMILA G V

Associate. Professor

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Signature with date

1.

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Department of Civil Engineering Bangalore – 560074



CERTIFICATE

Certified that this project phase 2 synopsis report entitled "Model footing resting on surface treated coir fiber reinforced in blackcotton soil overlying loose stratum" being made by VARSHA M (IAH17CV408), KIRAN KUMAR N (IAH16CV425), LIKITH R (IAH16CV410), YATHISH KUMAR R K (IAH17CV409)a bonafied students of ACS college of engineering in partial fulfillment for the award of bachelor degree in Civil engineering of Vishvesvaraya Technological University, Belagavi during acadamic year 2019-20

Signature of guide

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Signature of principle

M. S Murali

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DEPARTMENT OF AERONAUTICAL ENGINEERING



CERTIFICATE

This is to certify that the dissertation work entitled "SIMULATION ANALYSIS OF FLUID STRUCTURE INTERACTION ON AN AIRCRAFT WING" is a Bonafede work carried out by Mr. PRAJWAL R[1AH17AE029], Mr. RAKSHITH P GOWDA[1AH17AE032], Mr. SHRAVANKUMA[1AH17AE042], Mr. VISHNUPRASAD S[1AH17AE052], in partial fulfillment of award of the degree of Bachelor of Engineering in Aeronautical Engineering, from 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.

Signature of Guide

Rahmeh

Mr. DhanyaPrakash R Babu Assoc. professor Dept. of Aeronautical

Engineering ACSCE, Bangalore Signature of HOD

Dr. G. Ramanan HOD

Dept. of Aeronautical Engineering ACSCE, Bangalore Signature of Principal

Dr. M. S. Murali

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Name of the Examiner

1. Dr. G. Romanan

2. Or. A.K SONKON

Signature

2._

Kambipura, Mysore road, Bangalore 560 074

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CERTIFICATE

This is to certify that the dissertation work entitled "FLIGHT DYNAMICS MODELLING AND SIMULATION OF FLIGHT VEHICLES" is a bonafide work carried out by Mr. NARENDRA N [IAH17AE027] and YASHWANTH T S [IAH17AE055] in partial fulfillment of the award of the degree of Bachelor of Engineering in Aeronautical Engineering, from 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 requirement in respect of the project work prescribed for the degree.

Signature of Guide

Dr. A. K SARKAR

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2. ANJohn

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CERTIFICATE

This certify that the dissertation work entitled "Design and Analysis of Wing with and without Cropped Delta Vortex Generator" is a bonafide work carried out by Mr. NANDEESH K C (1AH17AE026), SAJALA REDDY PAVAN (1AH17AE035), SHARANA GOWDA A (1AH17AE038) in partial fulfillment of award of the degree of Bachelor of Engineering in Aeronautical Engineering, from the Visvesvaraya Technological Belagavi during the year 2020-21. It is certified University, corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

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Name of the Examiner

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2. Dr. A.K. Sankar

Signature

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CERTIFICATE

This is to certify that the dissertation work entitled "DESIGN AND FE ANALYSIS OF HORIZONTAL TAIL STRUCTURE FOR A LIGHT BUSINESS JET AIRCRAFT" is a bonafide work carried out by Ms.Hitha.N. Babu (IAHI7AE018), Mr. Joel Vince.K (IAHI7AE019), Ms.Sannidhi (IAHI7AE036) in partial fulfillment of award of the degree of Bachelor of Engineering in Aeronautical Engineering, from 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.

Signature of Guide

but

Mr. DhanyaPrakash R B

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CERTIFICATE

This is to certify that the dissertation work entitled "MODELLING AND SIMULATION ANALYSIS OF WING BY MODIFYING WINGLET DESIGN" is a bonafide work carried out by Ms. NIVEDITHA R [1AH17AE028], Ms. DEEPIKA M [1AH17AE014], Mr. BHUSHAN S [1AH17AE010], Mr. BHARATH KUMAR U [1AH17AE009], in partial fulfillment of award of the degree of Bachelor of Engineering in Aeronautical Engineering, from 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.

Signature of Guide

Prof. Radhakrishnan

Asst.Prof., Dept. of Aeronautical Engineering ACSCE, Bangalore Signature of HOD

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Name of the Examiner

1. Dr. G. Ramanan

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CERTIFICATE

This is to certify that the dissertation work entitled "INTEGRATION OF BIODEGRADABLE COMPOSITIES IN AIRCRAFT STRUCTURE" is a Bonafede work carried out by Ms. AKSHATHA RD [1AH17AE003], Mr. B A SUHAS [1AH17AE007], Ms. ANANYA U MANVI [1AH17AE005], Mr. PRUTHVI D K [1AH17AE059] in partial fulfilment of award of the degree of Bachelor of Engineering in Aeronautical Engineering, from 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.

Signature of Guide Dr. G Ramanan Associate Prof.,

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Signature of HOD Dr. Ramanan G

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Name of the Examiner:

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CERTIFICATE

to certify that the dissertation work entitled "Fabrication and testing of mechanical properties of carbon nanofiber composite for aircraft brakes" is a Bonafede work carried out by Mr. LOKESH N [1AH17AE023], Mr. SACHIN KUMAR K [1AH17AE033], Mr. SURESH V [1AH17AE044], Mr. MANJUNATH B [1AH16AE020] in partial fulfillment of award of the degree of Bachelor of Engineering in Aeronautical Engineering, from 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.

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Mr. ARUN A K

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Name of The Examiner 1. Dr. G. Ramanan 2. Dn. A.K. Sankan

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This is to certify that the dissertation work entitled "Design Analysis of Conventional Solar Powered Unmanned Aerial Vehicle" is a bonafide work carried out by Mr. KARTIK PATTAR (IAHI7AE020), Mr. RAHUL KUMAR (IAHI7AE031), Mr. SAGAR HITTALAMANI (IAH17AE034), Ms. SHAGUN KAJAL (IAH17AE037), in partial fulfillment of award of the degree of Bachelor of Engineering in Aeronautical Engineering, from 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.

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This is to certify that the dissertation work entitled "FFT Based PSD Estimation and Digital Filter Design for smoothing Noisy Telemeter Signal" is a bonafide work carried out by Mr. Tejas Chandra N [1AH17AE48], Mr. Yogesh K A [1AH17AE056], Mr. Harsha M G [1AH17AE015] in partial fulfillment of Aeronautical award of the degree of Bachelor of Engineering in Engineering, from 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.

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Anushree R Koushik

on successful completion of Internship Program on Basic Aerospace Design

Date: 8-Jul-2020 To 7-Aug-2020

Training Head BridgeNow Academy

Chief Executive Officer BridgeNow Academy





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He has successfully completed the internship and was assigned the below duties.

- 1) Conducted Online Drone Ground Classes
- 2) Conducted on-field Drone Pilot training.

During the duration of the internship with us he was found to be punctual, resourceful and enterprising. We wish him success for all his future endeavors.

Yours cordially,

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चिमान अनुसंधान एवं अभिकल्प केन्द्र (ए आर डी सी)

AIRCRAFT RESEARCH & DESIGN CENTRE (ARDC)

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கಂದೂಸ್ಥಾನ್ ಪರೋನಾಟಕ್ಸ್ ಲಿಮಿಟೆಡ್

हिन्दुस्तान एरोनॉटिक्स लिमिटेड

HINDUSTAN AERONAUTICS LIMITED



ಮಾರತ್ತ್ ಹಳ್ಳಿ ಹೋಸ್ಟ್, ಬೆಂಗಳೂರು-560037, ಭಾರತ मारतहल्ली पोस्ट, बॅगलूरु-560037, भारत Marathahalli Post, Bengaluru-560037, India ದೂ/दूरभाष/Ph.: 91-80-22324312,22316774 ಫ್ಯಾಕ್ಟ್ / फैक्स/Fax:91-80-22314320

D/ARDC/HR/Proj/Cert/1816/21

16.04.2021

CERTIFICATE

This is to certify that **Mr Minhazul Hussain** who is a student of B.E (Aeronautical & Aerospace), ACS College of Engineering, Bengaluru, has undergone **Internship Training** at HAL ARDC, Design Complex, Bengaluru from 19-03-2021 to 16-04-2021 on "**No-Pay-No-Fee-Basis**" he has been punctual, sincere and committed trainee. His conduct has been Very Good.

The student brings in a lot of energy and enthusiasm in the work, he is structured in his approach and methodical in resolving a problem. He is resourceful and adaptive to working environment.

TO DUNING THE COS DUN

(Prochi Dalvi)

Dy. Manager (HR)

ARDC, Design Complex.

ನೋಂದಾಯಿತ ಕಛೇರಿ : 15/1, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ पंजीकृत कार्यालय : 15 /1, कब्बन रोड़, बेंगलूरु - 560 001, भारत Registered Office : 15 /1, Cubbon Road, Bengaluru - 560 001, India

ル a a a が / 利 3 可 マ / CIN: L35301KA1963GO1001622





THIS CERTIFICATE IS PROUDLY PRESENTED TO:

Nithin B L

1AH17AS021

IN APPRECIATION FOR YOUR PARTICIPATION AS A VIRTUAL INTERN AT



CSIR - National Institute for Interdisciplinary Science and Technology (NIIST), Trivandrum, Kerala.

The Virtual Internship Program 2020 was conducted between 07-Sep 2020 and 01-Oct 2020

01-Oct-2020

DATE





Supported By

SelectSmart





This certificate is awarded to

Prajna H N

on successful completion of Internship Program on Basic Aerospace Design

Date: 8-Jul-2020 To 7-Aug-2020

Training Head BridgeNow Academy Chief Executive Officer BridgeNow Academy

PINCORE TECHNOLOGIES INDIA PVT. LTD.



Certificate ID: PCINTRB1853

Date: 01.09.2020

TO WHOM SO EVER IT MAY CONCERN

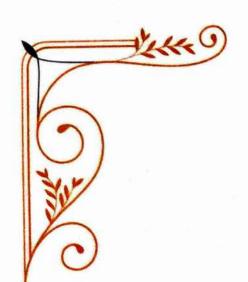
This is to certify that Mr. R SAI BHUVAN [IAH17AS024] student of ACS COLLEGE OF ENGINEERING BANGALORE, has undertaken and successfully completed four weeks of internship on "Exploring Landscape of Machine Learning and AI at the edge of Industrial Automation" at Pincore Communal - A subcaudal of Pincore Technologies India Pvt. Ltd., as part of fulfilment of requirements of Bachelor of Engineering curriculum. During the internship phase, we found candidate is sincere and hardworking towards the given assignments.

We wish a successful career in future endeavours.

Narendra Baluvanerahi Venkataramajah

Chief Technical Officer Pincore Product Development Centre









ISSUE Date- 14/06/2021



RENISHA PEREIRA

This is to certify that HE/SHE, has been awarded this certificate on completing one month internship from 14th May 2021 TO 14th June 2021 in OUR COMPANY

Intern number - MI2105AE13
Department- Aerospace





Any Queries: contact@machinfinity.in CIN:AAX-1920



K. RAJU

Chairman
MACH INFINITY AEROSPCE





www.simsindia.net

INTERNSHIP CERTIFICATE



www.hebeon.com

This Certifies that

RUTHVIK VIJAYKUMAR JOSHI

A.C.S COLLEGE OF ENGINEERING

has completed four weeks internship on

AI FOUNDATION USING PYTHON AND DATA SCIENCE

at our company from Date 7th Aug to 6th Sept 2020

We found him / her sincere, hardworking, dedicated and result oriented.

He / She worked well as a part of the team & as an Individual during his / her tenure.

We take this opportunity to thank him / her and wish him / her all the best for the future.



SHANKAR RAJU
DIRECTOR - TRAINER
HEBEON TECHNOLOGIES PVT LTD.,
HYDERABAD

M.S.JAYACHANDRA ARADHYA DIRECTOR SILICON MICROSYSTEMS BENGALURU



Date: 21 Oct 2020

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Sankeerthana M (1AH17AS027), student of ACS College of Engineering, Bengaluru - 560074, has successfully completed the internship in our organisation from 12 Sep 2020 to 21 Oct 2020.

We wish her all the best in her future endeavours.

For Sansera Engineering Limited

Vijayendra Kumar H S

Deputy Manager - HR



CERTIFICATE OF INTERNSHIP

This is to certify that

SANKET SHIVAJI NEHARKAR

was in our company as an intern

from 15 03 21 to 15 04 21 in AERO DESTENDED TENTED TO THE PARTEMENT.

A company, JetAvi is a legal entity made up of an association of people, be they natural, or a mixture of both,

for carrying on a commerial or industrial enterprise.

FOR JETAVI

PARE OTOROGO

JETAVI ENGINEERING PVT LTD

Sy No. 76/2, 1st Floor, NCC Urban Windsor, Opposite to Jakkur Aerodrome, Allalasandra Village, Hobli, Yelahanka, Bengaluru, Karnataka 560064



CERTIFICATE OF INTERNSHIP



THIS CERTIFICATE IS PROUDLY PRESENTED TO:

Sarvesh J

1AH17AS029

IN APPRECIATION FOR YOUR PARTICIPATION AS A VIRTUAL INTERN AT



CSIR - National Institute for Interdisciplinary Science and Technology (NIIST), Trivandrum, Kerala.

The Virtual Internship Program 2020 was conducted between 07-Sep-2020 and 01-Oct-2020

01-Oct-2020

DATE

PROGRAM HEAD, ISERT









THIS CERTIFICATE IS PROUDLY PRESENTED TO:

Sathya Moorthy K

1AH17AS030

IN APPRECIATION FOR YOUR PARTICIPATION AS A VIRTUAL INTERN AT



CSIR - National Institute for Interdisciplinary Science and Technology (NIIST), Trivandrum, Kerala.

The Virtual Internship Program 2020 was conducted between 07-Sep-2020 and 01-Oct-2020

01-Oct-2020

DATE











This certificate is awarded to

Sharon V	
Sharon v	

on successful completion of Internship Program on Basic Aerospace Design

Date: 8-Jul-2020 To 7-Aug-2020

Training Head BridgeNow Academy

Chief Executive Officer BridgeNow Academy





THIS CERTIFICATE IS PROUDLY PRESENTED TO:

Sidhapara Mitul Mukesh Bhai

1AH17AS032

IN APPRECIATION FOR YOUR PARTICIPATION AS A VIRTUAL INTERN AT



CSIR - National Institute for Interdisciplinary Science and Technology (NIIST), Trivandrum, Kerala.

The Virtual Internship Program 2020 was conducted between 07-Sep-2020 and 01-Oct-2020

01-Oct-2020

DATE

PROGRAM HEAD, ISERT





वैमानिकीय विकास संस्थापन

AERONAUTICAL DEVELOPMENT ESTABLISHMENT

डी आर डी ओ, रक्षा मंत्रालय, भारत सरकार, बेंगलुरु

D R D O, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA BENGALURU-560075



HUMAN RESOURCES DEVELOPMENT DIVISION TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms./Mr. SRIGOWRI A (1AH17ASO34)

Fourth Semester / year, BE / B.Tech. / ME / M.Tech / PhD

Aerospace Engg. Student (Batch No. 019/3/57-UG/20-21)

has undergone Project Work / Internship Training in the field of

"Sesformance Analysis of Aeroengine with

Twin Furbo Charger.

from 02-Mar-21 to 30-Apr-21 in this Establishment under the

guidance of Ms./Mr./Dr. T Lamachandra Lao, Sc F.

PS Airision of ADE.

During the period of Project Work / Internship Training her / hisperformance and conduct was very good.

Bengaluru

Date: 30-4-21

Head, HRD For Director

अनिता सर्वणन / Anitha Saravanan वैज्ञानिक 'एफ' / Scientist 'F' प्रमुख, (एच.आर.) / Head, (HR) वैमानिकीय विकास संस्थापन AERONAUTICAL DEVELOPMENT ESTABLISHMENT डी.आर.डी.ओ., रक्षा मंत्रातय / DRDO, Ministry of Defence न्यू तिप्यसन्द्रा पोस्ट / New Thippasandra Post बेंगलरु / Bengalur - 560 075



INTERNSHIP CERTIFICATE

This is to certify that

Suneha R

has undergone a 30 days internship training programme from 01/03/2021 to 19/04/2021.

In the department of Research and Development

Contriver, Bengaluru. Under the guidance of Уодевья НТ

and the grade awarded to the intern for the internship project is



Sanjay B Chief Executive Officer















PRINSTON SMART ENGINEERS

Certificate of Internship Machine Learning

Tarun K
ACS COLLEGE OF ENGINEERING
1AH17AS037

Intern Has Successfully Completed The Internship.
Intern Was Found To Be Good And Disciplined.
March 1st to April 15th,2021

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THIS CERTIFICATE IS PROUDLY PRESENTED TO:

Yukthashree H M

1AH17A5040

IN APPRECIATION FOR YOUR PARTICIPATION AS A VIRTUAL INTERN AT



CSIR - National Institute for Interdisciplinary Science and Technology (NIIST), Trivandrum, Kerala.

The Virtual Internship Program 2020 was constanted between 0.7 Sep 2020 and 01 -003 2020

01-Oct-2020

DATE





ACS COLLEGE OF ENGINEERING

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the PROJECT WORK entitled "VEHICLE COLLISION

DETECTION AND AVOIDANCE SYSTEM " carried out by

M VARSHINNI

1AH15EC019

SUHASK S

1AH15EC039

SUSHMAP

1AH15EC041

NIRANJAN R KUMAR

1AH14EC018

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the saiddegree.

Mrs.BharathiGurura InternalGuide

Dr.H.B.Bhuvaneswari HOD, ECE

Principal

External Viva

Name of the Examiners

1. Dr. H. B. Bhovanes war

2. Anilha. N

Signature with Date

Quille 12/6/19

ACS COLLEGE OF ENGINEERING

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the PROJECT PHASE-I work entitled has "SMART ELECTRONIC VOTING MACHINE"

carried out by

MONISH D (1AH17EC022)
DILIP K (1AH17EC015)
DRUPAD N (1AH17EC017)
BHARATH KUMAR P (1AH17EC008)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication 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.Nagesh.H.B

Internal Guide

Dr.H.B.Bhuvaneswari

HOD, ECE

Dr.M.S.Murali

Principal

Principal

A.C.S. College of Engineering

(ambigura, Mysera Road, Kargeri Hob)

Banyalore - 560 074

ACS COLLEGE OF ENGINEERING

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the PROJECT PHASE-I work entitled has
"FUEL EFFICIENT WASTE COLLECTION METHOD USING GRAPH THEORY"

carried out by

ANINDITH P (1AH15EC002) SATHYASHREE G (1AH15EC034) PAVITHRA P C (1AH16EC033) BRINDA V (1AH17EC009)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication 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.

Medrajith Prakash Nair

Internal Guide

Dr.H.B.Bhuvaneswari

HOD, ECE

A.C.S. Co Principal ngineering

Ambiputa, Myscre Road, Kengeri Hobit.

KAMBIPURA, MYSORE ROAD, BENGALURU-566674

DEPARTMENT OF ELECTRONICS & COMMUNICATIONENGINEERING



CERTIFICATE

This is to certify that the project work phase-1 entitled "BLOOD

LEAKAGE MONITORING SYSTEM"carried out by

SRIKANTH S

(1AH14EC029)

PUNEETH KUMAR R

(1AH14EC022)

MADHUSUDHAN S

(1AH15EC020)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work phase-1 prescribed for the said degree.

Mrs. Vijaya.Dalawai Internal Guide

awai Dr.H.B.Bhuvaneswari
HOD,ECE

Dr.M.S.Murali Principal

KAMBIPURA, MYSORE ROAD, BENGALURU - 560074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the PROJECT WORK PHASE-1 entitled "SMARTPHONE TRACKING SYSTEM FOR THEFT MOBILE USING ANDROID APPLICATION" carried out by

DINESH NAIDU J

(1AH15EC010)

LISHA S

(1AH15EC016)

SOUNDARYA C D

(1AH15EC038)

YASHAS KUMAR K E

(1AH15EC045)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work phase-1 prescribed for the said degree.

Dr.M.Mathivanan

Dr.H.B.Bhuvaneswari

Dr.M.S.Murali

Internal Guide

HOD, ECE

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS AND COMMUNICATION **ENGINEERING**



CERTIFICATE

This is to certify that the project work entitled "IOT BASED SMART ELEVATOR" carried out by

VENKATESH K V

(1AH14EC032)

YASHASWINI A

(1AH14EC035)

PAVAN KUMAR M

(1AH15EC401)

bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Electronics Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified

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

Dr.M Math

Dr.H.B.Bhuvaneswari

Internal Guide

HORORCE

Dept. of ECE ACS College of t

External Viva

Principal Principal

A.C.S. Cellege of Engineering Kambipura, Mysore Road, Kengeri Hobli,

Banyalore - 560 074 Signature with Date

Same of the Examiners

1. B. Mary

Kumbipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled *SPEECH ENHANCEMENT FOR NOISY SPEECH SIGNAL IN MOBILE COMMUNICATION" carried out by

> ADARSHA JYOTHI H N (1AH14EC002) LAVANYA S (1AH14EC014) SUJAY S (1AH14EC411) VIVIN T VARGHESE (1AH11EC019)

are bonafide students of ACS COLLEGE OF ENGINEERING. BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Dr. M. Mathiyanan

Internal Guide

Dr. H. B. Bhuvaneswari

HOD, ECE

Princhigelpal

A.C.S. Cellege of Engineering Kambipura, Mysere Road, Kengeri Hopli,

Bangalore - 568 674

Signature with date

EXTERNAL VIVA

Name of the Examiners 1. Dr. H.B Bhovaneswas.

P. B. Mang

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "AN APPROACH TOWARDS AUTOMATIC IMAGE REGISTRATION USING COARSE TO FINE TRANSPORMATION" carried out by

HARSHITH R (IAHI4EC009)
PRIVA C (IAHI4EC020)
ABHISHEK M S (IAHI5EC400)
SUSHMITHA S KUMAR (IAHI3EC038)

BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Mr. Harish L. Internal Guide

Dr. H. B. Bhuvaneswari HOD, ECE

Dr. M. S. Muratt

EXTERNAL VIVA

Name of the Examiners

1. Dr. H. B. Bhuyameswari

2. P.B. Manej

Signature with Date

13/6/18

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "PERFORMANCE ANALYSIS OF WAVELET FILTERS FOR IMAGE COMPRESSION" carried out by

ANAM FATIMA (1AH14EC004) BINDIYA K (1AH14EC007) VINDYA NAIR (1AH14EC033) VISHWAS R (1AH13EC041)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

project work prescribed for the	said Degree.	
Blood Governaj Internal Guide	Dr. H. B. Bhuvaneswari HOD, ECE	Dr. Merinolpalali A.C.S. CBliageral Engineering Kambigura, Mysere Road, Kengeri hoof
Name of the Examiners	External Viva	Bangalore - 560 074 Signature with Date
1. Harish L		-13 6 18
2. NAGESH KUMAR DI		13/6/19

KAMBIPURA, MYSORE ROAD, BENGALURU-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



<u>CERTIFICATE</u>

This is to certify that the project work entitled "FABRICATION AND TESTING OF WIDEBAND MICROSTRIP PATCH ANTENNA" has been carried out by

HEMA B

(1AH14EC010)

NAGASHREE GURURAJ

(1AH14EC016)

RANJITHA H S

(1AH14EC025)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

A 16/2018

Dr. II B Rhpynneswari Guide, prof. & Head FCE Dept.

ACS College of Engineering Bangalore - 560 974.

External viva

Name of the Examiners

1. Der. H.B. Bhuraneswari

2. P.B. Mano'1

A.C.S. Obilegenof Arrenneering Kambipura, Mysore Road, Kengeri Hobli,

Banyalore - 560 074

Signature with Date

BUIL 13/6/18

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "SIGN LANGUAGE INTERPRETATION SYSTEM FOR THE MUTE PEOPLE" carried out by

BHAVYA C

(1AH14EC006)

NISCHITHA J

(1AH14EC019)

VINAY M

(1AH14EC412)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Mr. Harish. L Internal Guide

Dr. H. B. Bhuvaneswari HOD, ECE

External Viva

Dr. M. S. Murali

Principal

A.C.S. College of Engineering Kambipura, Mysore Road, Kengeri Hobli,

Bangalore - 560 074

Signature with Date

Name of the Examiners

1. Dr. H.B. Bhuvaneswari

2. P.B. Mang

95 Th/18

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



This is to certify that the project work entitled "IOT BASED GARBAGE MONITORING SYSTEM AND DOMESTIC CARE" carried out by

ANILKUMAR S

(1AH14EC005)

KARTHIK KUMAR T R

(1AH14EC011)

NARESH M R

(1AH14EC017)

PRIYANKA MANJUNATH

(1AH14EC021)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Mr. RAMESHA M

Mr. RAMESHA M Internal Guide Dr. H. B. Bhuvaneswari

Stat 12/6/18

HOD, ECE

Dr. M. S. Murah

Principal

Name of the Examiners

1. Dec. H. B. Phuzhallunzi

2. P.B. Manoj

Signature with Date

14 12 16/18

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "MEDICINAL PLANT LEAF INFORMATION EXTRACTION USING DEEP FEATURES" carried out by

> DEEKSHITHA M (1AH13EC005) MEGHASHREE N (1AH13EC014) POORNA K S (1AH13EC019) GOWTHAMI D M (1AH14EC403)

are bonafide students of ACS COLLEGE OF ENGINEERING. BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Techno logical University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have 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. Rahul. R. Rai Internal Guide

Dr. H. B. Bhuvaneswari HOD, ECE

A.C.S. Collaboratifizationeering Kambipura, Mysore Road, Kengeri Hebli, Banualore - 560 074

External Viva

Name of the Examiners

Signature with Date

Scanned by CamScanner

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "PERFORMANCE ANALYSIS OF WAVELET FILTERS FOR IMAGE COMPRESSION" carried out by

ANAM FATIMA (1AH14EC004) BINDIYA K (1AH14EC007) VINDYA NAIR (1AH14EC033) VISHWAS R (1AH13EC041)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Mrs. Bharathi Gururaj Internal Guide

Dr. H. B. Bhuvaneswari HOD, ECE Or. M. S. Murali Principal

Name of the Examiners

External Viva

Signature with Date

1. Dr. H.B. Bhuvaneswan

13/6/18

2. P.B. Manoj

Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS AND **COMMUNICATION ENGINEERING**



CERTIFICATE

Certified that the project work entitled "EMBEDDED BASED AGRICULTURAL LAND MONITORING SYSTEM" carried out by,

ABHISHEK SINGH J

(1AH12EC001)

MANJESH H

(1AH14EC015)

NITHIN S

(1AH13EC018)

VISHWAS L V

(1AH14EC035)

Are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Alleygotin .

Mr. VIJAYA KUMAR H R ASSISTANT PROFESSOR

Dr. H B BHUVANESWARI

HOD, ECE

A.C.S. College of Engineering Kambipura, Mysore Road, Kengeri Hobli,

Banualore - 566 074

EXTERNAL VIVA

Name of the Examiners

1. Dr. H.B. Bhovaneswasi.

2. P.B. Manej

Signature with Date

KAMBIPURA, MYSORE ROAD, BENGALURU - 560074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the PROJECT WORK PHASE-2 entitled "SMARTPHONE TRACKING SYSTEM FOR THEFT MOBILE USING ANDROID APPLICATION" carried out by

> DINESH NAIDU J (1AH15EC010)

> LISHA S (1AH15EC016)

> SOUNDARYA C D (1AH15EC038)

> YASHAS KUMAR K E (1AH15EC045)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work phase-2 prescribed for the said

degree. Dr.M.Mathiva

Internal Guide

HOD, ECE

Principal

Name of the Examiners

Signature with Date

1. Dr. H. B. Bhovaneswair. 2. Anitha. H

KAMBIPURA, MYSORE ROAD, BENGALURU - 560074

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the PROJECT REPORT PHASE-1 entitled "SMART PARKING PLATFORM" carried out by

HARSHAD JAIN A	1AH15EC012
LOHITH R	1AH15EC018
SHWETHA SUBBARAO	1AH15EC036
SWATHI S	1AH15EC042

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visveswaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work phase -1 prescribed for the said degree.

Mr. Harish. L Internal Guide Dr. H. B. Bhuvaneswari HOD, ECE Dr. M. S. Murali Principal

KAMBIPURA, MYSORE ROAD, BENGALURU - 560074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the PROJECT WORK PHASE-1 entitled "SMARTPHONE TRACKING SYSTEM FOR THEFT MOBILE USING ANDROID APPLICATION" carried out by

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degree.

Internal Guide

HOD, ECE

KAMBIPURA, MYSORE ROAD, BENGALURU - 560074

DEPARTMENT OF ELECTRONICS & COMMUNICATIONENGINEERING



CERTIFICATE

This is to certify that the PROJECT REPORT PHASE-1 entitled "ACTIVE VIBRATION" carried out by

> SUSHMA R (1AH14EC030)

> HEMA R (1AH15EC013)

> REVATHI A (1AH15EC031)

> (1AH15EC032) SANIA TABASSUM

bonafide students of ACS COLLEGE OF ENGINEERING. BENGALURU in partial fulfilment for the award of Bachelor of Engineering Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work phase-1 prescribed for the said degree.

Mayyetiras

Mr. Vijaya Kumar. H. R Dr. H. B. Bhuvaneswari

Internal Guide

HOD, ECE

KAMBIPURA, MYSORE ROAD, BENGALURU - 560074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the Project Work Phase-1 entitled "NOISE REDUCTION AND SPEECH ENHANCEMENT USING MATLAB FOR MOBILE COMMUNICATION" carried out by

CHAITHRA R

(1AH15EC007)

MOHAMED ARSHAD S

(1AH15EC021)

SONYA A

(1AH15EC037)

YASHMITHA B S

(1AH15EC046)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work phase-1 prescribed for the said degree.

Mr. Rahul Rai

Internal Guide

Dr.H.B.Bhuvaneswari

HOD, ECE

Dr.M.S.Murali

Principal

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KAMBIPURA, MYSORE ROAD, BENGALURU - 560074

DEPARTMENT OF ELECTRONICS & COMMUNICATIONENGINEERING



CERTIFICATE

This is to certify that the Project Work Phase-1 entitled "VEHICLE COLLISION DETECTION AND AVOIDANCE SYSTEM USING COMPUTER VISION TECHNIQUE" carried out by

NIRANJAN R KUMAR 1AH14EC018

SUHAS K.S 1AH15EC039

SUSHMA P 1AH15EC041

M. VARSHINNI 1AH15EC019

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018- 2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work phase-1 prescribed for the said degree.

Mrs. Bharathi Gururaj

Dr.H.B.Bhuvaneswari

Principal

Internal Guide

HOD, ECE

KAMBIPURA, MYSORE ROAD, BENGALURU - 560074

DEPARTMENT OF ELECTRONICS & COMMUNICATIONENGINEERING



CERTIFICATE

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HEMAR (1AH15EC013)

REVATHI A (1AH15EC031)

SANIA TABASSUM (1AH15EC032)

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Alleyeknes.

Mr. Vijaya Kumar. H. R

Internal Guide

Dr. H. B. Bhuvaneswari

HOD, ECE

Dr. M. S.Murali

KAMBIPURA, MYSORE ROAD, BENGALURU - 560074

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

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SWATHI S	1AH15EC042

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Mr. Harish. L

Internal Guide

Dr. H. B. Bhuvaneswari HOD, ECE Dr. M. S. Murali

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DEPARTMENT OF ELECTRONICS & COMMUNICATIONENGINEERING



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Dr.H.B.Bhuvaneswari

Internal Guide

HOD, ECE

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DEPARTMENT OF ELECTRONICS & COMMUNICATIONENGINEERING



CERTIFICATE

This is to certify that the project work phase I entitled "ARDUINO BASED ANIMAL DETECTION USING IMAGE PROCESSING" carried out by

LIKITHA.M

(1AH15EC015)

RASHMI KANABUR

(1AH15EC028)

SUMAN SUREKHA.V

(1AH15EC040)

VINUTHA.G.N

(1AH15EC044)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Cogesh . H.B

Mr.Nagesh.H.B Assistant Professor

Dept. of ECE, ACSCE

Dr.H.B.Bhuvaneswari

Professor &HOD, ECE ACSCE Dr.M.S.Murali

Principal ACSCE

External viva

Name of the Examiners

Signature with Date

1.

2.

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DEPARTMENT OF ELECTRONICS & COMMUNICATIONENGINEERING



CERTIFICATE

This is to certify that the Project Work Phase-1 entitled "NOISE REDUCTION AND SPEECH ENHANCEMENT USING MATLAB FOR MOBILE COMMUNICATION" carried out by

CHAITHRA R (1AH15EC007)

MOHAMED ARSHAD S (1AH15EC021)

SONYA A (1AH15EC037)

YASHMITHA B S (1AH15EC046)

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Mr. Rahul Rai

Internal Guide

Dr.H.B.Bhuvaneswari

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the PROJECT WORK PHASE-2 entitled "SMARTPHONE TRACKING SYSTEM FOR THEFT MOBILE USING ANDROID APPLICATION" carried out by

DINESH NAIDU J (1AH15EC010)

LISHA S (1AH15EC016)

SOUNDARYA C D (1AH15EC038)

YASHAS KUMAR K E (1AH15EC045)

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degree. Whatella

Dr.M.Mathivanan Dr.H.B.Bhuvanesv

Dr.M.S.Murali

Internal Guide

HOD, ECE

Principal

Name of the Examiners

Signature with Date

1. Dr. H. B. Bhovan eswair

146111.

2. Anitha. H

KAMBIPURA, MYSORE ROAD, BENGALURU - 560074

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the PROJECT REPORT PHASE-1 entitled "DROWSINESS DETECTING USING EEG SIGNAL ANALYSIS" carried out by

A SHREYA 1AH16EC001
AKSHAY S 1AH16EC004
DEVIKA S 1AH16EC015
HIMANSHU BASWAL T 1AH16EC018

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visveswaraya Technological University, Belagavi during the year 2019-2020. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work phase -1 prescribed for the said degree.

Dr. Mathivanan. M Internal Guide

Dr. H. B. Bhuvaneswari HOD, ECE

Att 1/2020.

Dr. M. S. Murat
Principal

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "IOT BASED CONTINUOUS MONITORING OF CARDIAC PATIENTS USING RASPBERRY PI 3" carried out by

G MANISHA REDDY

(1AH13EC006)

NANDINI R

(1AH13EC015)

students of ACS COLLEGE OF ENGINEERING. BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Internal Guide

Dr. H. B. Bhuvaneswari HOD, ECE

Dr. M. S. Murali Principal

Name of the Examiners

1.

chandrashuer NS 2.

Signature with Date

Dene 24/6/17

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "IOT BASED CONTINUOUS MONITORING OF CARDIAC PATIENTS USING RASPBERRY PI 3" carried out by

G MANISHA REDDY

(1AH13EC006)

NANDINI R

(1AH13EC015)

ENGINEERING, students of ACS COLLEGE OF bonafide are BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Dr. M Mathiyanan Internal Guide

BAD231617

Dr. H. B. Bhuvaneswari HOD, ECE

Dr. M. S. Mura Principal

Name of the Examiners

Dr. M. MATH WANAW 1.

chardeachevae No 2.

Signature with Date

hut 24/6/12 sele 24/6/17

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION **ENGINEERING**



CERTIFICATE

This is to certify that the project work entitled "IOT BASED CONTINUOUS MONITORING OF CARDIAC PATIENTS USING RASPBERRY PI 3" carried out by

G MANISHA REDDY

(1AH13EC006)

NANDINI R

(1AH13EC015)

ENGINEERING. of ACS COLLEGE OF students BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree. 23/06/17

Dr. M Mathi

Internal Guide

Dr. H. B. Bhuvaneswari

HOD, ECE

Dr. M. S. Murali Principal

Signature with Date

pohe 246/17

Name of the Examiners

Dr. M. MATHIVANAN Chandlasherere nos 1.

2.

ACS COLLEGE OF ENGINEERING Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the Project work entitled "IMAGE PROCESSING USING CONNECTED COMPONENT LABELING AND CENTROIDING FOR RADAR IMAGES" has been carried out by

HEMALATHA R

1AH13EC007

MANJUSHREE G

1AH13EC011

R POORVASHREE

1AH13EC022

SMISHA M

1AH13EC034

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for the said Degree.

Mr. Ramesha M

Internal Guide
Assistant Professor

P. Barne Mrs. Paramita Barua

External Guide Scientist 'D' Radar I, LRDE Dr. H.B.Bhuvaneswari

Head of Department

Dr. M.S.Murali

Principal

Name of the Examiners

1. Dr.M.MATAWANAN

2. Chandrasheraens

Signature with Date

pohe 27/6/17

KAMBIPURA, OFF MYSORE ROAD, BENGALURU-560074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



This is to certify that the project entitled "SMART DRUNKEN DRIVER DETECTION WITH ACCIDENTAL ALERT AND SECURITY SYSTEM FOR VEHICLES" has been carried out by AISHWARYA R.V (1AH13EC002), MANOJ A (1AH13EC013), RASHMI K.S (1AH13EC027), HEMAVATHI M.J (1AH12EC009) bonafide students of ACS College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2016-2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Name and Signature of guide Name and Signature of HOD Signature of Principal

Internal guide

Dr H.B. Bhuvaneswari

Dr M.S. Muruli

Kavitha R.J.

Prof and Head

Principal, ACSCE

Asst,Prof,ECE Dept

Department of ECE

External viva

Name of the Examiners

2. Chand rashernews

Signature with Date

Ashe 27/6/17

KAMBIPURA, MYSORE ROAD, BENGALURU-560 074

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

Certify that the project entitled "SEMINAR HALL AUTOMATION USING RASPBERRY PI 3" has been carried out by

PRAVEEN KUMAR S 1AH13EC020

RAJESH K 1AH13EC024

SUBRAHMANYA S 1AH13EC037

KANTHARAJU A G 1AH14EC406

are bonafide students of ACS College of Engineering, Bengaluru in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library.

Project Guide

Dr. M. Mathivanan

Asso. Professor, ECE

23 6 17

Head of the Department

Dr. H.B. Bhuvaneswari

Prof. & Head, ECE

Principal

Dr. M.S. Murali

Name of the Examiner's

2. Chandrasherne NS

Signature with Date

Ather 24/6/17

Mysore road, Kambipura Bengaluru Karnataka 560074 2016-2017

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

Certified that the Dissertation work entitled "DESIGN AND SIMULATION OF WIDE BAND U-SLOT MICROSTRIP PATCH ANTENNA FOR WIRELESS COMMUNICATION" has been carried out by VINUTHA M R, USN: 1AH15LD501, a bonafide student of ACS College of Engineering, Bengaluru in partial fulfilled for the award of degree of Master of Technology in Digital Electronics & Communication Systems of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for Internal Assessment has been incorporated in the report deposited in the departmental library. The dissertation report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Signature of WHP and Stude Dr.H.H.Rhailanger argines for a Professor WHOIL 10 574. Department of ECE, ACSCE

Signature Write Frincipal
A.C.M. College of Engineering
Cambigura Mysore Fload, Kengeri Hobil,
Earnborne - 580 074
A.C.S. college of Engineering

ALAY AOCE

Name of the Examiner.

1.) 1. G. Sedeshirty

2. D. H. B. Churchesward

Signature with Date

3418 17

Kambipura, Off Mysore Road, Bengaluru-560074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

Certified that the project work entitled "FACE DETECTION AND SIMILARITY SEARCH USING LOCAL BINARY PATTERN" carried out by

JAGAN NADAN S

(IAH13EC008)

NAVEEN P R

(IAHI3EC016)

RAGHU H P

(1AH13EC023)

CHANDRA SHEKAR B R

(IAHI4EC401)

are bonafide students of ACS College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visveswaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Aluter majolin

Assistant Professor Internal Guide

Dr. H B BHUVANESWARI

HOD, ECE

Dr. M S MURALI

Principal, ACSCE

External Viva

Name of the Examiners

2. Chondrasherce NO

Signature with Date

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "SMART FARMING USING IoT" carried out by

> (1AH13EC033) SINDHU C BHARADWAJ

(1AH13EC043) INDIRA A

(1AH13EC044) Y SNEHA SAI

(1AH14EC405) HARSHITHA N

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mr. Suresh Internal Guide Dr. H. B. Bhuvaneswari HOD, ECE

Dr. M. S. Murali Principal

Name of the Examiners

Signature with Date

1.

MAD 2 4 16/12 BALL 24/6/17

Or. M. MATHIVANAN Chandlasheron MS 2.

KAMHIPURA, OFF MYSORE ROAD, BENGALURU-560074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



This is to certify that the project entitled "APPLICATION OF ACOUSTIC VECTOR SENSOR TOWARDS DIRECTION OF ARRIVAL ESTIMATION OF A SINGLE ACOUSTIC NOURCE" has been carried out by CHARITHA N (1AH13EC004), SHREYAS K M (1AH13EC400) and TEJASHWINI N D (1AH13EC039), bonafide students of ACS College of Engineering, Bangalore in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visveswaraiah Technological University, Belgaum during the year 2016-2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Name and Signature of Guide	Name and Signature of HOD	Signature of Principal
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Bul 23/6/2017

External

Mrs. Ajharani Hansdah

Scientist 'D' STR-1,

ADE, DRDO

h Dr. BHUVANESWARI H.B. Prof. & HOD of ECE, ACSCE Dr. M.S Murali Principal, ACSCE

Internal

Mr. Rahul R Rai

Assistant Professor

Dept. of ECE, ACSCE

External viva

Name of the Examiners

1. Dr. M. MATINIVANAN

2

chardreshow no

Signature with Date

hubscholis-

Athe 24/6/17

KAMBIPURA, OFF MYSORE ROAD, BUNEAU MILL 5600 CO

DEPARTMENT OF ELECTRONICS & ENGINEERING



This is to certify that the project work entitled "SMART SECURITY SOLUTION FOR WOMEN USING IOT" has been carried out by

RAJESH KUMAR DUBEY

(IAH13EC025) ROHITH S J

HARSHA S N (1AH14EC404)

KARTHIK M (IAH14EC407)

are bonafide student of ACS College of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visveswaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Dr.H.B. Bhuvaneswari

Dr.M. S. Murall

Assistant Professor

Professor & HOD, ECE

Principal

Dept. of ECE, ACSCE

ACSCE

ACSCE

External viva

Name of the Examiners

1. Dr. M. MATHWANAN 2. Chomdensheyear NS

Signature with Date

No hour bolls

when 24/6/17

(IAH13EC030)

KAMBIPURA, OFF MYSORE ROAD, BENGALURU-560074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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Name and Signature of guide Name and Signature of HOD Signature of Principal

Internal guide

Dr H.B. Bhuvaneswari

Dr M.S. Muruli

Kavitha R.J.

Prof and Head

Principal, ACSCE

Asst, Prof, ECE Dept

Department of ECE

External viva

Name of the Examiners

Signature with Date

phe 27/6/17

1. Dr. M. MATHIVANAN 2. Chand rashycae ws

ACS COLLEGE OF ENGINEES

Kambipura, Mysore Road, Bengalus

DEPARTMENT OF ELECTRONICS & C ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "IOT BASED CONTINUOUS MONITORING OF CARDIAC PATIENTS USING RASPBERRY PI 3" carried out by

G MANISHA REDDY

(1AH13EC006)

NANDINI R

(1AH13EC015)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Dr. M Mathivanan

Dr. M. Mathiyana Internal Guide Dr. H. B. Bhuvaneswari

HOD, ECE

Dr. M. S. Murali Principal

Name of the Examiners

1. Dr.M.MATHINANA

2. Chameleashernervis

Signature with Date

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Athe 24/1/17

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "IOT BASED CONTINUOUS MONITORING OF CARDIAC PATIENTS USING RASPBERRY PI 3" carried out by

G MANISHA REDDY (1AH13EC006)

NANDINI R (1AH13EC015)

SHREEGANDHA D T (1AH13EC032)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfillment for the award of Bachelor of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2016-2017. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

Dr. M Mathivanan
Internal Guide

Dr. H. B. Bhuvaneswari HOD, ECE

Dr. M. S. Murali Principal

Name of the Examiners

1. Dr. M. MATHIVANAN

2. Chandrasheene NS

Signature with Date

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por 24/6/17

#74, KAMBIPURA, MYSORF ROAD, BANGLORE-74



Department of Computer Science and Engineering

CERTIFICATE

This is to certify that the Final Year Project Report entitled "IOT based Power Management and Controlled socket" has been presented by Manoj Kumar KS(1AH12CS013), Maruthi R(1AH13CS020). Rakesh Kumar(1AH13CS028), Vinod Kumar S(1AH13CS045), a bonafide student of ACS College of Engineering affiliated to Visvesvaraya Technological University, Belagavi during the year 2016-2017. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project prescribed for the said degree.

Signature of the Guide Mr. Mahantesh Mathapati Assistant Professor, Dept. of CSE, ACSCE Signature of HOD

Dr. B S Pradeep
Professor & HOD,
Dept. of CSEDACSCE

Dept. of C.S. & Engg. ACS College of Engineering Bangalore - 560 074. Signature of the Principal
Dr. M S Murali,
Principal, ACSCE

A.C.S. College of Engineering Kambipura, Mysore Road, Kengeri Hobli, Bangalore - 560 074

Principal

Signature with Date

S.No

Name of the Examiners

1

Leruka Palit

Vsule 23/6/7

2

#74, KAMBIPURA, MYSORE ROAD, BANGLORE-74



Department of Computer Science and Engineering

CERTIFICATE

This is to certify that the Final year project Report entitled "FRoDO: Fraud Resilient Device for Secure Micro-Payment" has been presented by BINDU S(1AH13CS010), RAKSHITHA S(1AH13CS030), RANI M(1AH13CS032) and YASHASWINI N G(1AH13CS046) a bonafide students of ACS College of engineering affiliated to Visvesvaraya Technological University, Belgaum during the year 2016-2017. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Project Report has been approved as it satisfies the academic requirements in respect of project prescribed for the said degree.

Signature of the Guide

Mrs. Jyoti Metan

Assistant Professor

Dept. of CSE, ACSCE

100 100

Signature of the HOD

Dr. B.S. Pradeep

Professor & HOD

Dept. of CSE, ACSGE

ACS College of Engineering
Bangalore - 560 074.

Signature of Principal

Dr. M.S. Murali

Principal

ACSCE

Principal

A.C.S. College of Engineering Kambipura, Mysore Road, Kengeri Hobli,

Bangalora - 500 074

Signature With Date

Sl.No

Name of The Examiners

1. Dr. P. Santhillam

2.

Lenuka Patil

#204, Kambipura, Mysore Road, KengeriHobli, Bangalore - 560 074.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the Project Report entitled "DISEASE PREDICTION BY MACHINE LEARNING OVER BIG DATA FROM HEALTHCARE COMMUNITIES" has been presented Harshitha.M(1AH14CS013), by Aishwarya. G(1AH14CS003), Bindushree. K(1AH14CS006), Maheshwari.B(1AH14CS018), bonafide students of ACS College of Engineering affiliated to Visvesvaraya Technological University, Belagavi, during the academicyear 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Report prescribed for the said degree.

Signature of the Guide Dr. T. SenthilKumaran **Associate Professor**

Dept. of CSE, ACSCE

Signature of the HOD

Dr. B.S.Pradeep Professon& HOD

Dept of CSFs AGSGE

ACS College of Engineering Bangalore - 560 074.

Signature of the Principal

DP://wcsewiurali

A.C.S. College Missineering

Kambipura, Mysele Carder Kangeri House

Banyalore - 560 074

Name of the Examiners

Signature with Date

prof. Chandranna. 14. T. S. Thi' Ilumana

Kambipura, Mysore Road, Banglore-74



Department of Computer Science and Engineering CERTIFICATE

This is to certify that the Final Year Project Report entitled "Secure Retrieval of Data Using Repair Tree Algorithm in Distributed Storage System " has been presented by Aishwarya.A.M (1AH14CS002), Jyothi.S (1AH14CS014) and Sushma.S (1AH14CS035), bonafide students of ACS College of Engineering affiliated to Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in departmental library. The Project Report has been approved as it satisfies the academic requirements in respect of project prescribed for the said degree.

Signature of the Guide Dr.V.Mareeswari Assoc. Professor Dept. of CSE, ACSCE

2.

Signature of the HOD

Dr.B.S.Pradeep

Densit of est A Eng ACS College of Engineering Ambipura, Mysore Road, Kengeri Hobii.

Bangalore - 560 074.

Signature of the Principal Photo Murali

A.C.S. College Grengineering

Banyalore - 560 074

Name of the Examiners

Broh. Chandramme. 1.

Signature with Date

Kambipura, Mysore Road, Banglore-74



Department of Computer Science and Engineering

CERTIFICATE

This is to certify that the Final Year Project Report entitled "SENSITIVE DATA SHARING PREVENTION FOR CHILDREN" has been presented by Kavyashree (1AH15CS021), Rakshita B S (1AH15CS043), (1AH15CS058), Vidhyaa B (1AH15CS059), a bonafide student of ACS College of Engineering affiliated to Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all the corrections/suggestions indicated for internal assessment have incorporated in the report deposited in departmental library. The Project Report has been approved as it satisfies the academic requirements in respect of project prescribed for the said degree.

Signature of the Guide Mrs. Kavita K. Patil **Assistant Professor** Dept. of CSE, ACSCE

Signature of the HOD

Dr. T Senthil Kumaran Professor & HOD

Signature of the Principal

DprMcSiMurali

A.C.S. Collegipangineering Dept. of C.S. & Engg Kambipura, Mysch CSCD, Kengeri Hobli,

ACS College of Engineering Bangalore - 560 074.

Banyalore - 560 074

Name of the Examiners

Signature with Date

1.

#74, Kambipura, Mysore Road, Bengaluru - 560074

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Final Year Project Report entitled "DEEP AIR LEARNING: INTERPOLATION, PREDICTION AND FEATURE ANALYSIS OF FINE-GRAINED AIR QUALITY" has been successfully submitted by NAYANA R(1AH15CS029), MONISHAS (1AH15CS028), SHEHNAAZ BANU T (1AH15CS052), a bonafide student of ACS COLLEGE OF ENGINEERING affiliated to Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in departmental library. The Project Report has been approved as it satisfies the academic requirements in respect of project prescribed for the said degree.

1 July

Signature of the Guide Mrs. Kavya G Assistant Professor Dept. of CSE, ACSCE Signature of the HOD
Dr. T Senthil Kumaran
Assoc Professor & HOD
Dept. of CSE, ACSCE

Dr. M S Murali
Principal
ACSCE

Name of the examiners

1. Dinesb 8.D

2. S. Grothkuman

Signature with date

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#74, Kambipura Mysore Road, Bengaluru-560074

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

Certificate that the Final Project on topic "Securing Electronic Health Record in Cloud" has been successfully submitted by Raksha J Shetty (1AH17CS052), Rakshitha W M (1AH17CS054) and Shwetha M (1AH17CS077) a bonafide students at ACS College of Engineering affiliated to 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 submitted to the department. The Project report has been approved as it satisfies the academic requirement in respect of the project work as prescribed in 8th semester.

Signature of the Guide

Mrs. Kavya G Assistant Professor, CSE ACSCE, Bengaluru Signature of the Co-Ordinator

Dr. T Senthil Kumaran Professor, CSE ACSCE, Bengaluru Signature of the HOD

Dr. V Mareeswari Professor & HOD, CSE ACSCE, Bengaluru

Signature with Date

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2._____

KAMBIPURA, MYSORE ROAD, BENGALURU - 560074

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project work phase-II entitled "Face mask detection in the era of COVID-19 pandemic" carried out by BHAVANA G (1AH17CS016), CHAITANYASHREE (1AH17CS017) and KEERTHI L N (1AH17CS026) are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in fulfillment for the award of Bachelor of Computer 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 phase-II prescribed for the said degree.

Mrs. Sunita Chalageri Internal Guide

S.07/8/4

Dr. T Senthil Kumaran Coordinator

Dr.V Mareeswari HOD, CSE

Name of the Examiners

Signature with Date

1.

2.

ACS College of Engineering, Bangalore-74 Department of Mechanical Engineering



CERTIFICATE

Certified that the project work entitled "Manufacturing of Nanostructured Materials processed by Severe Plastic Deformation Process" carried out by BHUVANESH V SHETTY (1AH13ME047), RAGHAVENDRA RAO K (1AH11ME009), SHIVA PRASAD (1AH13ME034), PRAJWAL GOWDA A S (1AH13ME029), a bonafide student of ACS College of Engineering, in partial fulfilment for the award of Bachelor of Engineering in Mechanical department of Visvesvaraya Technological University, Belgaum during the year 2015-2016. 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.

Suide 22/6/17

Prof. H S Siddesha

Head of Department

Dr. Eswarmoorthy

Dr. M. ESWARAMOORTHY M.Tech., Ph.D.(NIT-T)

Professor & Head
Department of Mechincal Engineering
A.C.S.College of Engineering

#207,Kambipura, Mysuru Road,

Bengaluru-560074 Examiner Signature with date:

External Viva

1. Dr. HSSIDDESKA

2. Dr. Mruthunjaya M

923/6/17

A.C.S. College of Engineering

Kambipura, Mysore Road, Kengeri Hobli,

Bangalore - 560 074

ACS College Of Engineering, Bangalore-74 Department of Mechanical Engineering



CERTIFICATE

Certified that the project work entitled "Frictionless Braking System" carried out by KARTHIK J N GOWDA (1AH14ME023), MADAN KUMAWAT (1AH14ME030), SHARATH K (1AH14ME043), TEJAS HEGDE D (1AH14ME048) a bonafide students of ACS College Of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical department of Visvesvaraya Technological University, Belgaum during the year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Mr. SANDEEP G R **Assistant Professor**

College of Engineering Dr. M.S. Mural kengeri Hobli,

Banyalore - 560 674

External Viva

1. D. R. Siva Sur RAMANIPAN 2. Do. J. Saterecoh

Examiner Signature with date:

Baltuh rul 6

#204, Kambipura, Mysore Road, Kengeri Hobli, Bangalore - 560 074.



DEPARTMENT OF MECHANICAL ENGINEERING

Certificate

This is to certify that the Project Report entitled "POWER GENERATION BY SPEED BRAKER" has been presented by Sagar S (1AH15ME419), Suneel K P (1AH15ME420), Tejeshkumar J S(1AH15ME422), Kirankumar Muthappa Kolur (1AH15ME409), bonafide students of ACS College of Engineering affiliated to Visvesvaraya Technological University, Belagavi, during the academic year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Report prescribed for the said degree.

Signature of the Guide Bapugowda C M **Assistant Professor** Dept. of ME, ACSCE

Signature of the HOD

Dr. H.S Siddesha

Signature of the Principal Dr. M.S.Muzali

chanical Enga.c.s. College of Engineering College of Engineering bipura, Mysore Road, Kengeri Houli,

Bangalore - 560 074.

Bangalore - 560 074

Name of the Examiners

Signature with Date

#204, Kambipura, Mysore Road, Kengeri Hobli, Bangalore - 560 074.



DEPARTMENT OF MECHANICAL ENGINEERING

Certificate

This is to certify that the Project Report entitled "POWER GENERATION BY SPEED BRAKER" has been presented by Sagar S (1AH15ME419), Suneel K P (1AH15ME420), Tejeshkumar J S(1AH15ME422), Kirankumar Muthappa Kolur (1AH15ME409), bonafide students of ACS College of Engineering affiliated to Visvesvaraya Technological University, Belagavi, during the academic year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Report prescribed for the said degree.

Signature of the Guide Bapugowda C M **Assistant Professor** Dept. of ME, ACSCE Signature of the HOD3

Dr. H.S Siddesha Associate Professor & HOD Signature of the Principal Dr. M.S.Murali

ACP (Incipal

Departof Mile HAGNER Engg.A.C.S. College of Engineering ACS College of Engineering mbipura, Mysore Road, Kengeri Hold Banyalore - 560 074 Bangalore - 560 074.

Name of the Examiners

Signature with Date

1. R. R. Sun Sobramaniran 2. Dr. T. Satheen

Kambipura, Off Mysore Road, Bengaluru-560074

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the final year project entitled "UTILIZATION OF HUMAN EXERCISE ENERGY TOWARDS THE PRODUCTION OF GREEN ENERGY" has been carried out by ARPIT CHAUHAN (1AH14ME005), KARTHIK ATHREYA (1AH14ME021), SRINIVAS V (1AH14ME045), TEJKIRAN P (1AH14ME050), bonafide students of ACS College of Engineering, Bangalore in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the year 2014-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library.

Project Guide

Asso. Prof. of ME ACSCE

Prof. & HABO ME

Dept. of Mechanical Engg. ACS College of Engineering

Bangalore - 560 074.

Principal

A.C.S. College of Engineering Kambipura, Mysere Road, Kengeri Hebli,

Name of the Examiners

1.Dr. H.S. Siddesha ACSCE

2. Dr. Kiran kumal SJB17

ACS College Of Engineering, Bangalore-74 Department of Mechanical Engineering



CERTIFICATE

Certified that the project work entitled "AN EXPERIMENTAL INVESTIGATION OF THE PERFORMANCE OF SINGLE CYLINDER CI ENGINE FUELLED WITH BIODIESEL AND HYDROGEN" carried out by CHETHAN KUMAR (1AH115ME404), a bonafide student of ACS College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical department of Visvesvaraya Technological University, It is certified that all Belgaum during the year 2017-2018. 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.

a Subramaniyam

Prof. Rakesh S

Guide

HOD

Dept. of Mechanical Engg. Chefelles enfallmentering Bangalore - 560 074. M. S. Murali

Principal

External Viva Examiner

Signature with date

1.

2.

ACS College Of Engineering, Bangalore-74

Department of Mechanical Engineering



CERTIFICATE

Certified that the project work entitled "Nanostructure and Mechanical Properties of Titanium Alloy Processed by Constrained Groove Pressing " carried out by JAVAD ALI (1AH14ME019), MOHAMMED MUJEER (1AH14ME033), SHAHABAZ KHURESHI P (1AH10ME042), AYUB MOHAMMED ATEEB (1AH13ME006) a bonafide students of ACS College Of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical department of Visvesvaraya Technological Belgaum during the year, 2017-2018. It is certified that all University, 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. H.S.SIDDESHA

Associate Professor

Head of Department

Dr. H.S.SIDDESHA

Dr. M.S. Murali

OD te Professe≝ngg. hanical Engg. A.C.S. College of Engineering ACS College of Engineering Kambipura, Mysore Road, Kengeri Hobli, Bangalore - 560 074. Examiner Signature with date:

External Viva

2.

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the Project Work entitled "FABIRCATION OF BIO-COMPOSITE STEERING WHEEL FOR AUTOMOBILES (SISAL, BANANA, JUTE AND COCONUT COIR)" has been successfully carried out by Mr.Devraj D (1AH15ME405), Mr.Mahendra M (1AH15ME411), Mr.Rakesh V (1AH15ME418), Mr.Surakshith B M (1AH15ME421) Bonafide Students of ACS College of Engineering, Bengaluru in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgavi for the year 2017-2018. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Charle 12-06.16 Signature of the Guide

Chandrashekhar B Assistant Professor

Signature of the HOD

Dr. H.S. Siddesha

Department of Mechanical

Dept. of Mechanical Engg. ACS College of Engineering Bangalore - 560 074.

Signature of the Principa

Dr.M.S.Murali

Principal

ACSCE

SL No.

Name of Examiners

DE J. Sathean

2.

1.

Signature with date

interest 6)18

ACS College Of Engineering, Bangalore-74 Department of Mechanical Engineering



CERTIFICATE

Certified that the project work entitled "Frictionless Braking System" carried out by KARTHIK J N GOWDA (1AH14ME023), MADAN KUMAWAT (1AH14ME030), SHARATH K (1AH14ME043), TEJAS HEGDE D (1AH14ME048) a bonafide students of ACS College Of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical department of Visvesvaraya Technological University, Belgaum during the year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Mr. SANDEEP & R

Assistant Professor

Depr. Ursund Diffital Enggambioura Mys Manada Mengeri Hobli,

ACS Collage of Engineering Bangalore - 560 074.

Banyalore - 560 074

External Viva

Dr. R. SIVA SUBRAMANIYAM
Dr. J. Satherda

Examiner Signature with date:

Baluth (u) 6

ACS College Of Engineering, Bangalore-74 Department of Mechanical Engineering



CERTIFICATE

Certified that the project work entitled "Design and Manufacture of White Metal Thrust Pad Bearing " carried out by ABHILASH HK (1AH12ME400), PUNITH BG (1AH13ME028),DAVID SANDEEP (1AH13ME007), RAVI SONDERA (1AH13ME415) a bonafide students of ACS College Of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical department of Visvesvaraya Technological University, Belgaum during the year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Siyasankar P Assistant Professor Head of Department 14/4/18

Dr. H.S.SIDDESHA

A.C.S. College of Englineering DepAssociatechenfesarEngg. Kambipura, Myscre Road, Kengeri Hobii

ACS College of Engineering Bangalore - 560 074.

Banuaiore - 560 074

External Viva

Examiner Signature with date:

ACS College of Engineering, Bangalore-560074 **Department of Mechanical Engineering**



CERTIFICATE

Certified that the project work entitled "FABRICATION OF BIO COMPOSITE AUTOMOBILE RADIATOR COOLING FAN" carried out by ASHA K G (1AH14ME006), GOKUL N **BHARADWAJ** (1AH14ME017), PURUSHOTHAM G (1AH14ME038), SHIVA PRASAD S (1AH14ME044), a bonafide students of ACS College of Engineering, Bangalore-560074, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering Department of Visvesvaraya Technological University, Belgaum during the year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Soin Shallouy 10/18

Srinidhi Acharva S R

Guide

Dr. Siddesha H S

Head of the Department A.C.S. Chineipet ngineering

Kambipura, Mysore Road, Kengeri Hohl

Dept. of Mechanical Engg.

Banyalore - 560 074

ACS College of Engineering Signature with Date

External Viva Examiners

1. Dr. R. SIVA SUBRAMANIYAM

2. Dr. J. Sathree Mr.

Brollean mel 6

ACS COLLEGE OF ENGINEERING Mysore Road, Bengaluru-560 074

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the technical seminar report entitles" "POWER GENERATION THROUGH BIKE FRONT SUSPENSION"has been carried out by NITHIN M with usn 1AH15ME414, CHETHAN H.R with usn1AH13ME012, RAGHU Awith usn1AH13ME030, ARCHITHA N with usn 1AH14ME055, a bonafide student of ACS College of Engineering, Bengaluru, in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as its satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of the Guide MR. KUMAR B.M

Signature of the HOD

ACS College of Engineering

Bangalore - 560 074.

Name of the Examiners

1) D. R. Sin Subramaniram

2) Dr. J. Satureth

Signature of the Principal

DR. MURACHAM, S

A.C.S. College of Engineering Kambipura, Myscre Road, Kengeri Hohii

Signature lore - 500 673

Mysore Road, Bengaluru - 560074 (Affiliated to Visvesvaraya Technological University, Belagavi)



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

Submitted By,

HITESH. S

1AH15ME407

PRATHAP, M. R

1AH15ME417

NITHIN. M

1AH15ME415

This is to certify that the project work entitled "THE STUDY OF DYNAMIC PROPERTIES OF JUTE, E-GLASS AND EPOXY HYBRID COMPOSITE" is a bonafide work carried out by the student of ACS College of Engineering, Bengaluru in partial fulfillment of the requirement of Bachelor of Engineering in Mechanical Engineering during academic year 2017-2018. It is certified that the correction 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 requirement in respect of project work prescribed for the bachelor of engineering degree.

Dr. SURESH. P. M

Professor, MED

ACSCE Bengaluru-74

ACS COGREGO FEMaineering

Bangalore - 560 074.

Principal

ACSCE Bengaluru-74

Principal

1. Dr. H.S. Siddelha, Aesce. Shorely Kambipura, Mysore Road, Kengeri Hobi, Banyalore - 560 074

2. Dr. Kruleund SJBIP Den 13 6 18

Mysore Road, Bengaluru – 560074 (Affiliated to Visvesvaraya Technological University, Belagavi)



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

Submitted By,

ARJUN K 1AH14ME004 LIJIN J 1AH15ME410 1AH14ME003 ALEX WILSON

1AH12ME016 JOSE ANTONY

This is to certify that the project work entitled "EXPERIMENTAL STUDY ON CONCENTRIC TUBE WASTE HEAT RECOVERY SYSTEM BIOMASS FUELED MULTIFUNCTIONAL COOKING STOVE"

is a bonafide work carried out by the student of ACS College of Engineering, Bengaluru in partial fulfillment of the requirement of Bachelor of Engineering in Mechanical Engineering during academic year 2017-2018. It is certified that the correction 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 requirement in respect of project work prescribed for the bachelor of engineering degree.

Dr.M ESWARAMOORTHY

Professor, MED

ACSCE Bengaluru-74

Dr. H. S. S. DESHA 12/6/18

Dept. Hambebanical Engg. A.C. Price in ge of Engineeri ACS Gold Bangalung 60 074, Rengeri Hour Bangalore - 560 074, Eageri Hour Bangalore - 560 074,

Name of the examiner

1. Dr. H-S-Sidderla ACSCG 2. Dr. Kirankuman P SJB17

ACS COLLEGE OF ENGINEERING Mysore Road, Bengaluru-560 074

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the technical seminar report entitles" "POWER GENERATION THROUGH BIKE FRONT SUSPENSION"has been carried out by NITHIN M with usn 1AH15ME414, CHETHAN H.R with usn1AH13ME012, RAGHU Awith usn1AH13ME030, ARCHITHA N with usn 1AH14ME055, a bonafide student of ACS College of Engineering, Bengaluru, in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2017-2018. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as its satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of the Guide MR. KUMAR B.M

Signature of the HOD

Signature of the Principal

DR.SIDDESHA H . S.

Bangalore - 560 074.

ACS College of Engineering A.C.S. College of Engineering Kambipura, Mysere Road, Kengeri ti...

Signature - 560 074

Name of the Examiners

1) Dr. R. Swn DakAMANYAM

2) Dr. J. Sathersh

ACS COLLEGE OF ENGINEERING, BANGALOR74 DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "DESIGN, MODELING AND FABRICATION OF TWO STROKE AIR DRIVEN ENGINE" carried out by LAKSHMISH G (1AH15ME021), KARUNESHA H (1AH16ME411), KALLANA GOWDA G.S (1AH15ME015), MANJUNATH ANIL KHOT (1AH15ME022) bonafide students of Department of Mechanical Engineering, ACS College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Department of Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the synopsis deposited in the departmental library. The final project synopsis has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Dr. H.S Siddesha
Internal Guide

External Viva Examiner

Signature with Date

1) Dr. Surchpm

2) Dr. D.P. GIVIAN

Dy January

DEPT OF MECHANICAL, ACSCE

ACS COLLEGE OF ENGINEERING, BANGALORE -74

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "EXPERIMENTAL INVESTIGATION ON TWO WHEELER FOUR STROKE METHANE GAS ENGINE" carried out Darshan B.N (1AH15ME009), Darshan M.S (1AH15ME010), Syed Sibghathulla (1AH15ME042), Chinnu B.R (1AH16ME405) are bonafide students of Mechanical Engineering Department, ACS College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Department of Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The Project Report has been approved as it satisfies the academic requirements in respect of the Project Work prescribed for the said Degree.

Mr. Sunilraj B.A

Guide

tor. H S'Sidde Hajing

PC2 Baudalous Debr. Collegalous Headlous Debautures Dr. M S Murali

Principal
Principal
A.C.S. College of Engineering
Kambipura, Mysore Road, Kengeri Hobli,

Bangalore - 560 074

External Viva Examiner

Signature with Date

1. Dr. Suresh PM

2. Drainismor

of fre

ACS College Of Engineering, Bangalore-74

Department of Mechanical Engineering



CERTIFICATE

Certified that the project work entitled "Production Of Nanostructure Materials By Repetitive Corrugated And Straightening Process For Low Carbon Steel Sheets" carried out by UDAY (1AH15ME046), PARVEZ M ALAM (1AH16ME413), PRADEEP B S (1AH16ME414), ROHITH KUMAR S (1AH16ME419) a bonafide students of ACS College Of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical department of Visvesvaraya Technological University, Belgaum during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Sandeep.G.R Assistant Professor

External Viva

Principal

Associate Professornical Enggla.C.S. College of Engineering ACS College of Engineering mbipura, Mysore Road, Kengeri Hopi

Bangalore - 560 074.

Examiner Signature with date:

Scanned with CamScanner

ACS COLLEGE OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "FABRICATION OF MECHANIZED HAND CART" carried out by KARTHIK B M (1AH14ME022), PRADEEP MS (1AH14ME035), KARTHIK DALABHANJAN (1AH15ME408), VINAYKUMAR B V (1AH15ME423) bonafide students of Department of Mechanical Engineering, ACS College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Department of Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the synopsis deposited in the departmental library. The first phase project synopsis has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Prof. Sunifra

Guide

Dr. H.S.Siddesha

Dr. M S Murali

DHeadof Departmentinga.

Principal ACS College of Engineering A.C.S. College of Engineering

Bangalore - 560 074.

Kambipura, Mysore Road, Kengeri Hob

Georgalore - Cub ., '4

Por. R. Mohan Ray Suril Pai BA

ii

ACS COLLEGE OF ENGINEERING, BANGALORE -74

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled AUTOMATED CHAIN CLEANING AND LUBRICATION SYSTEM FOR SPORTS MOTORCYCLES carried out by Karthik S Bharadwaj (1AH15ME017), Kashyap Krishnan P (1AH15ME018), Prasanna Vignesh P N (1AH15ME028) are bonafide students of Mechanical Engineering Department, ACS College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Department of Visvesvaraya Technological University, Belgavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The Project Report has been approved as it satisfies the academic requirements in respect of the Project Work prescribed for the said Degree.

HOD

Dept. of Mechanical Engg. ACS College of Engineering

Bangalore - 560 0744

Dr. H S Siddesha

Head of Department

Principal

Principal Principal

A.C.S. College of Engineering

Kambipura, Mysore Road, Kengeri Hobli, Bangalore - 500 074

External Viva Examiner

Prof. Chandrashekhar B

Guide

DY. Suran PM

2. Dr. Shivanna

Signature with Date

Donnis 18/6/19

Mysore Road, Bengaluru – 560074 (Affiliated to Visvesvaraya Technological University, Belagavi)



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

Submitted By,

ANAND A 1AH16ME402

AMARESH S 1AH16ME401

ASHOK K 1AH16ME403

SUNIL R 1AH16ME422

This is to certify that the project work entitled "Evaluation of dynamic mechanical properties of hybrid composite with shear thickening fluid" is a bonafide work carried out by the student of ACS College of Engineering, Bengaluru in partial fulfillment of the requirement of Bachelor of Engineering in Mechanical Engineering during academic year 2018-2019. It is certified that the correction 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 requirement in respect of project work prescribed for the bachelor of engineering degree.

Dr. SURESH P M

Guide

Professor

BAPUGOWDA.C.M

OWDA.C.M 1Dr. H.S.

Dr. H. S. SIDDESHA

Dr. M.

r. M. S. MURALI Principal ncipal

Co-Guide Dept. of Mechanical Engg.
Assistant professor CS College of Engineering

ACSCE Bengaluru-74

ACSCE Bengaluru-74

D-080EBengalin -074.

ACCOL Benjalani-34 - 1

Name of the examiner

1. Dr. Snoch PM

2. Dr. SHIVBNAD

Miv 12/1/19



CS College of Engineering

Approved by AICTE New Delhi, Affiliated to VTU, Belagavi (A Unit of RajaRajeswari Group of Institutions)

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "AN EXPERIMENTAL INVESTIGATION ON THE PERFORMANCE OF SINGLE CYLINDER CI ENGINE FUELLED WITH CALOPHYLLUM INOPHYLLUM BIODIESEL USING TiO2 NANOPARTICLES AS AN ADDITIVE" is a bonafide work carried out by D LOKESH (1AH15ME008), PRATEEK R (1AH15ME029), AMIT BHATTARAI (1AH15ME004), VISHNUKANTH (1AH14ME052) and submitted in partial fulfillment for the award of Bachelor of Engineering in Mechanical of Visvesvaraya Technological University, certified 2018-2019. It the Belgavi during year have for Internal Assessment corrections/suggestions indicated 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 Siva Subramaniyam

Internal Guide

Head of Department

Principal Principal

Dept. of Mechanical Engg.A.C.S. College of Engineering

ACS College of Engineering Co.S. College Road Kengeri Habli Bandalore - 560 074. Kambipura, Kignarure

External Examiner

1) Dr. Swah gm

2) Mainchity

ACS COLLEGE OF ENGINEERING, BANGALORE

Mysore Road, Bengaluru - 560074 (Affiliated to Visvesvaraya Technological University, Belagavi)



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

Submitted By,

ABHISHEK .M

1AH16ME425

DARSHAN B.V

1AH16ME408

GOWTHAMA K.M

1AH16ME410

VEERESH .R

1AH16ME423

This is to certify that the project work entitled "DESIGN AND FABRICATION OF AUTOMOBILE BRAKING SYSTEM USING MAGNETORHEOLOGICAL FLUID" is a bonafide work carried out by the student of ACS College of Engineering, Bengaluru in partial fulfillment of the requirement of Bachelor of Engineering in Mechanical Engineering during academic year 2018-2019. It is certified that the correction 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 requirement in respect of project work prescribed for the bachelor of engineering degree.

SRINIDHLACHARAYA S R

Guide,

Dept. of Mecimobical Engg.

Principal Principal ACS College of Engineering A.C.S. College of Engineering Hobli,

Bangalore - 560 074. Assistant professor

Kambipura, Mysore Road, Kengd Banyalore - 550 074

Name of the examiner:

Dr. Surch, P.M. 1.

Signature:

ACS COLLEGE OF ENGINEERING, BANGALORE -74 DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled ELECTRIC VEHICLE PROPULSION USING SHAPED MAGNETIC FIELD carried out by Akash R (1AH15ME003), Tejas B S (1AH15ME043), Usha B G (1AH15ME047), are bonafide students of Mechanical Engineering Department, ACS College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Department of Visvesvaraya Technological University, Belgavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library.

The Project Report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Guide

Head of Departmentingg. ACS College of Engineering

Bangalore - 560 074.

Principal Principal

A.C.S. College of Engineering Kambipura, Mysore Road, Kengeri Hobli,

Bangalore - 560 074

External Viva Examiner

1. Dr. Swelh PM 2. Dr. Shivanna

Signature with Date

ACS COLLEGE OF ENGINEERING, BANGALORE -74

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled AUTOMATED CHAIN CLEANING AND LUBRICATION SYSTEM FOR SPORTS MOTORCYCLES carried out by Karthik S Bharadwaj (1AH15ME017), Kashyap Krishnan P (1AH15ME018), Prasanna Vignesh P N (1AH15ME028) are bonafide students of Mechanical Engineering Department, ACS College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Department of Visvesvaraya Technological University, Belgavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The Project Report has been approved as it satisfies the academic requirements in respect of the Project Work prescribed for the said Degree.

HOD

Dept. of Mechanical Engg. **ACS College of Engineering**

Bangalore - 560 074.

Head of Department

Principal Principal

A.C.S. College of Engineering Kambipura, Mysore Road, Kengeri Hobli, Banualore - 560 074

External Viva Examiner

Che 23/05/2019

Prof. Chandrashekhar B

Guide

Signature with Date

Shivanna

This 12/6/19

ACS COLLEGE OF ENGINEERING, BANGALORE-74

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "AUTOMATED HYDRAULIC JACK BY USING INTERNAL BATTERY OF THE VEHICLE" carried out by KAMLESH B PUROHIT (1AH15ME016), JNANESH R (1AH15ME014), MANJUNATH R (1AH15ME023), PARVEEZ AHAMED (1AH15ME027) bonafide students of Department of Mechanical Engineering, ACS College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Department of Visvesvaraya Technological University, Belgavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the synopsis deposited in the departmental library. The final project synopsis has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Guide

External Viva Examiner

Head of Department Engg. ACS College of Engineering

Bangalore - 560 074.

1) Dr. Surch P.M 2) Dr hikutoy

Approved by AICTE New Delhi, Affiliated to VTU, Belagavi (A Unit of RajaRajeshwari Group of Institutions)

DEPARTMENT OF MECHANICAL ENGINREERING



CERTIFICATE

This is to certify the project work entitled DEVELOPMENT OF SOLAR INTEGRATED DISH ANTENNAcarried out by SHREYAS V(1AH16ME037),

CHETHAN PRABHU ARER(1AH16ME012),

UNDAVALLI PRASHANTH(1AH16ME042),

BASAVARAJPOTARAVINDHRA(1AH16ME008),

bonafide students of ACS College of Engineering, in partial fulfilment for the award of BACHELOR OF ENGINEERING in Mechanical Engineering of Visvesvaraya Technological University Belagavi during the year 2019-2020. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

ACS College of Engineering Principal

Head Of Department C.S. College of Engineering

Kambipura, Mysore Nuclear Hobit.

Banyalore - 560 074

InternalExaminer. 1.

Dr. Suran pm

ExternalExaminer 2.

Mysore Road, Bengaluru – 560074

DEPARTMENT OF MECHANICAL ENGINEERING



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify the project work entitled "DESIGN AND FABRICATION OF STANDING WHEEL CHAIR FOR SPECIALLY ABLED PERSON" carried out by DARSHAN S GAGGRI (1AH16ME014), MANISHA MANOHARAN (1AH16ME027), NIKITHA MA (1AH16ME030), bonafide students of ACS College of Engineering, in partial fulfilment for the award of BACHELOR OF ENGINEERING in Mechanical Engineering of Visvesvaraya Technological University Belagavi during the year 2019-2020. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Dr. Suresh P M

Dr. H.S Siddesha

Dr. M S Murali

Internal Guide

Head of Department

Principal, ACSCE

EXTERNAL VIVA

Name of the Examiner

1. Dr. Swoon PM

Signature

Approved by AICTE New Delhi, Affiliated to VTU, Belagavi (A Unit of RajaRajeshwari Group of Institutions)

DEPARTMENT OF MECHANICAL ENGINREERING



CERTIFICATE

This is to certify the project work entitled "DESIGN AND FABRICATION OF CARBON FIBER FRAME FOR FIREARM" carried out by KARTHIK KUMAR Y S (1AH16ME021), MELVIN (1AH16ME028), NATARAJA N (1AH16ME029), THRISHEEL BALAJI R (1AH16ME041), bonafide students of ACS College of Engineering, in partial fulfilment for the award of BACHELOR OF ENGINEERING in Mechanical Engineering of Visvesvarava Technological University Belagavi during the year 2019-2020. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Suresh P M Guide

Head of Department Principal Dept. of Mechanical Engg. S. College of Engineerin ACS College of Engine earnipura, Mysore Road, Kengeri Holi.

DY Bangalore 1560 0769 Internal Examiner 1.

External Examiner 2.

prof- KunasaBM.

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "STUDY OF SESAME OIL WITH ADDITIVE AS BIO LUBRICANT " carried out by Mr. ASHISH YADAV USN: 1AH14ME430, Ms. YESHASWINI.L USN: 1AH14ME054, Mr. ATIQ UR RAHMAN USN: 1AH15ME005, Ms. YASHASWINI.C USN: 1AH16ME430, the bonafide students of ACS College of Engineering, Bengaluru:560074 in Mechanical Engineering Department in the partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering as prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2019-2020. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department library.

The project report has been approved as it satisfies the academic requirements in respect of internship work prescribed for the above said degree.

Convala	
Soundlandlan	y
Project Guide	V

Mr.Srinidhi Acharya.S.R

ACS Collegistation and a collegistation of the college of the coll

Bangalore - 560 074.

Principatho

Dr. MYSWIBPALI A.C.S. College of Engineering

Kambipura, Mysore Road, Kengeri Hobli, Banualore - 560 074

EXT	ERNAL VIVA
Name of the Examiners	Signature with date
1.	
2.	

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project work titled DESIGN AND FABRICATION OF WET WASTE CRUSHER has been successfully carried out by ABHIJEET B R (1AH16ME001), TEJAS KUMAR (1AH16ME429), PUNITH N (1AH16ME415), ANOOP N (1AH16ME005) bonafide students of ACS COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering under Visvesvaraya Technological University, Belagavi during the academic year 2020. The project report has been approved as it satisfies the

academic requirements in respect of Project work prescribed for the said Degree

Signature of HOD

Dr. M S Murali

Dr.H.S.Siddesha

Dr.H.S.Siddesha

HOD

Dept. of Mechanical Engg. ACS College of Engineering Bangalore - 560 074.



CERTIFICATE

Certified that the project work entitled "Ultra-fined-grained structure development of Carbon Steel processed using severe plastic deformation process by constrained groove pressing - cross route" carried out by GOUTHAM C (1AH17ME006), SUHAAS KAPARDHI B S (1AH17ME020), LIKITH KUMAR B K (1AH17ME010), SANJAY M B (1AH17ME016) a bonafide student of ACS College Of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Mechanical department 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 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 5/2/201

Guide 5/2/201

Dr. H. Stsiahesha of Engineeriff Pres Siddeshan Engineering ACS College of Engineeriff Pres Siddeshan Engineering Bangalore - 560 074.

ACS College Bangalore - 560 074.

External Viva

Examiner Signature with date:

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the seminar topic work titled Manually Operated Inter Crop Cultivator has been successfully carried out by **ABHISHEK** CHOUBEY(1AH17ME001), G NAGESH(1AH17ME005), SOURABH KUMAR SINGH (1AH17ME019), VEERESH ASHOKKUMAR KADALE(1AH17ME023), bonafide student of ACS COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering under Visvesvaraya Technological University, Belagavi during the academic 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 seminar topic report has been approved as it satisfies the academic requirements in respect of seminar topic for the said degree.

Signature of Guide

Signature of HOD

Signature of Principal

Prof. SIVASANKAR P

HOD
Depths.MDDESHAI Engg.
ACS College of Engineering
Bangalore - 560 074.

Dr. M S Murali

External Viva-voce

Name of Examiners:

Signature with date

1.

#207, Kambipura, Mysuru Road, Kengeri, Bengaluru - 560074 (Approved By AICTE, New Delhi, Affiliated To VTU, Belagavi)











DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the Project Work entitled "FABRICATION OF SHEET METAL CUTTING MACHINE AND FOOT STEP POWER GENERATION" has been successfully carried out by Mr. Lohith M C (1AH17ME011), Mr. Nitish G (1AH17ME015), Mr. Anil Kumar (1AH17ME003), Mr. Vinod Kumar K (1AH17ME024) Bonafide Students of ACS College of Engineering, Bengaluru in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi for 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 Bachelor of Engineering Degree.

Prof. Sunil Raj B A Assistant Professor

Signature of the HOD

Dr. H SiSjedesha

Signature of the Principal Dr. MHARIAGE

DeBepartment of Mechanishing. A.C.S. Chiege of Engineering ACS Collegeineering Kambipura, MGS ERoad, Kengeri Hobli

Bangalore - 560 074.

Banualore - 560 074

Signature with date

SL No.

Name of Examiners

1.

2

#74, KAMBIPURA, MYSORE ROAD, BENGALURU 560074

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project work titled "DESIGN AND FABRICATION OF MECHANICAL SWEEPING CUM WASTE COLLECTION MACHINE" has been successfully carried out by YESHWANTH S (1AH17ME025), VARUN S (1AH16ME043), INDRESH C VODEYAR (1AH17ME007), PUNEETH KUMAR R (1AH17ME403) the bonafide students of ACS COLLEGE OF ENGINEERING in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering under Visvesvaraya Technological University, Belagavi during the academic year 2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The internship report has been approved as it satisfies the academic requirements in respect of internship for the said degree.

Signature of Guide

Signature **HOD**D

Signature of Principal

Dept. of Mechanical Engg.

ACS Gollegside Engineering Dr. M S Murali Bangalore - 560 074.

Dr. H S Siddesha

Principal A.C.S. College of Engineering Kambipura, Mysore Road, Kengeri Höbli,

Banualoro - 550 074

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the Project Report work entitled

"DESIGN AND DEVELOPMENT OF MOVABLE HEADLIGHT

BY CAR STEERING"

carried out by

KOUSTUBHA V 1AH17ME009 MANOJ R 1AH17ME012 NITHISH GOWDA K P 1AH17ME014 SHARATH KUMAR M 1AH17ME017

Are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Mechanical 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 projectwork phase-II prescribed for the said degree.

Sunil Raj B A

InternalGuide

Dr. H S Siddesha

HOD,ME

Dept. of Mechanical Engg. ACS College of Engineering Bangalore - 560 074. Dr.M.S.Murali M

Principal Principal

A.C.S. College of Engineers Kambipura, Mysore Road, Keng.

Bangalora - 50 1 .74

ACS COLLEGE OF ENGINEERING, BANGALORE -74 DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that project entitled "DESIGN OF SELF-BALANCING TWO-WHEELER USING GYROSCOPE" is a bonafide work carried out by AKHILA VASANTH SHETTY(1AH17ME002), JEEVAN M(1AH17ME008), K SRINIVAS(1AH16ME038), in partial fulfilment for the award of Degree of Bachelor of Engineering in Mechanical Engineering of 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. The project report has been approved as it satisfies the academic requirements in respect of project prescribed for the said Degree.

Guide

ACS College of Engineering A.C.S. College of Engineering ACS College of Engineering Ambipura, Mysore Road, Rengeri Hobl Bangalore - 560 074, Bangalore - 560 074

2020-2021

Mysore Road, Bengaluru – 560074 DEPARTMENT OF MECHANICAL ENGINEERING



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify the project work entitled "DESIGN AND FABRICATION OF LOW MODIFIED, MANOEUVRABLE, STANDING AND STRETCHER WHEELCHAIR TRANSPORT SYSTEM" carried out by DEEPAK GOWDA .L VINAY .H, CHARAN GOWDA .G and RAJESH .V are bonafide students of ACS College of Engineering, Project report submitted in partial fulfilment for the award of BACHELOR OF ENGINEERING in Mechanical 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.

2 John 9/8/2021 Dr. Suresh P M

Dr. H.S Siddesha

Internal Guide

Head of Department HOD

Principal, ACSCE

ACS College of Engineering Dept. of Mechanical Engy. Bangalore - 560 074.

Principal

ACS College of Engineering A.C.S. College of Engineering Bangalore - 560 074.

Kambipura, Mysore Road, Kengeri Hobli

Banualon, - tou u.74

Kambipura, Mysore Road, Bengaluru-560 074

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the Project Report work entitled

"FABRICATION AND MECHANICAL CHARACTERISTICS OF ALUMINIUM REINFORCED WITH SiC"

carried out by

KUSHAL N 1AH14ME028 PRAJWAL V 1AH14ME036 GURUPRASAD D N 1AH15ME012 ROHAN NAYAK 1AH16ME417

Are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Mechanical 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 projectwork phase-II prescribed for the said degree.

51kin@hidlory

Srinidhi acharya S R

InternalGuide

Dr. Siddesha H.S

HOD,MEO

Dept. of Mechanical Engg. ACS College of Engineering Bangalore - 560 074. Dr. Murali

M.S

Principal



CERTIFICATE

Certified that the Project Work entitled "FLEXURE DESIGN FOR PRECISION ENGINEERING" has been successfully carried out by Mr. SAGAR S MIRAJE (1AH16ME036), MS. R ANITHA (1AH16ME032), Mr. LOHITH KUMAR (1AH16ME025), Mr. MEGHRAJ MALGE (1AH16ME047) Bonafide Students of ACS College of Engineering, Bengaluru in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi for 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 Bachelor of Engineering Degree.

Signature of the Guide MR. SANDEEP G R **Assistant Professor**

Signature of the HOD Dr. SIDDESHA H S

Department of Mechanical Engineering

Signature of the Principal

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SL No.	Name of Examiners	Signature with date
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DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "Automatic Motorbike Stand Slider" carried out by

RANGARAJU C RAKESH YARADONI VIJAY KUMAR M R

(1AH16ME034) (1AH16ME033)

(1AH17ME407)

are bonafide students of ACS COLLEGE OF ENGINEERING, BENGALURU in partial fulfilment for the award of Bachelor of Engineering in Mechanical 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.

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DEPARTMENT OF AEROSPACE ENGINEERING



This is to certify that the dissertation work entitled "NOZZLE DESIGN OPTIMIZATION TO REDUCE NOISE IN TURBO ENGINES" is a bonafide work carried out by Ms.Abhirami K, Ms.Amrutha HR, Ms.Anushree R Koushik, Ms.Sharon V bearing university resister number 1 AH17 AS002, 1 AH17 AS005, 1 AH17 AS006, 1 AH17 AS031 Aerospace Engineering, from Visvesvaraya Technological University, Belgaum during the year 2020-2021. The project report has been approved as it satisfies the academic requirement in respect of Project work prescribed for the degree.

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This is to certify that the dissertation work "Design, Analysis and Simulation of Solar Sail Propulsion System for CubeSats" is a bonafide work carried out by Ajay Yalameli, Jijin P Savyar, M Ashok Kumar and Renisha Ruth Pereira, in partial fulfilment for the

award of the Degree of Bachelor of Engineering in Aerospace 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.

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This is to certify that the dissertation work entitled "ICE PROTECTION SYSTEM DESIGN AND ANALYSIS OF BASIC AIR DATA SYSTEM (PITOT STATIC TUBE)" is a bonafide work carried out by Ms. Arpitha M B, Ms. Prajna H N, Ms. Sankeerthana M, Mr. Sanket Shivaji Neharkar bearing university register number 1AH17AS007, 1AH17AS023, 1AH17AS027, 1AH17AS028 in partial fulfilment of award of the degree of Bachelor of Engineering in Aerospace Engineering, from 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 degree.

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Signature of Guide	Signature of HOD	Signature of Principal
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Professor and Head	Professor and Head	Principal
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This is to certify that the dissertation work "CFD ANALYSIS OF THE AEROSPIKE NOZZLE" is a bonafide work carried out by Chandana MJ, Jagadish J, Jiji C Joy, and Srigowri A, in partial fulfilment for the award of the Degree of Bachelor of Engineering in Aerospace Engineering of Visvesvaraya Technological University, Belgaum during the academic 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.

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This is to certify that the dissertation work entitled "Investigation of Propeller effects on Ice Protection System Design" is a bonafide work carried out by Chandu C P, Dhansingh Bhandari J, Sathya Moorthy k, Sidhapara Mitul Mukesh Bhai, bearing USN 1AH17AS010, 1AH17AS011, 1AH17AS030, 1AH17AS032 respectively, in partial fulfillment of award of the degree of Bachelor of Engineering in Aerospace Engineering, from Visvesvaraya Technological University, Belgaum during the year 2020-2021. The project report has been approved as it satisfies the academic requirement in respect of Project work prescribed for the degree.

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in respect of Project work pres	scribed for the degree.	hatter the patter
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Signature of Guide	Signature of HOD Dr. MUKESH R	Signature of Principal
Dr. MUKESH R	Prof. & head of the	Dr. M.S MURALI
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This is to certify that the dissertation work "STUDY OF FUEL SLOSHING AND STRUCTURAL SIZING OF AIRCRAFT AUXILIARY FUEL TANK" is a bonafide work carried out by Jayadrath Sudhakar Poojary, Suneha R, Tarun K and Yukthashree HIM, in fulfilment for the award of the Degree of Bachelor of Engineering in AEROSPACE 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.

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This is to certify that the dissertation work entitled "THRUST VECTOR CONTROL FOR SOLID ROCKET MOTOR" is a bonafide work carried out by Mr. R Sai Bhuvan (1AH17AS024), Mr. Nithin B L (1AH17AS021), Mr. Minhazul Hussain (1AH17AS019), Mr.Mahendar B S (1AH17AS018) AEROSPACE ENGINEERING from 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 degree.

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ACS COLLEGE OF ENGINEERING Kambipura Mysore Road, Bangalore 560 074 DEPARTMENT OF AEROSPACE ENGINEERING



This is to certify that the dissertation work entitled "ELECTRIC PROPULSION SYSTEM FOR POCKETQUBE AND CUBESATS" is a bonafide work carried out by, MR RUTHVIK VIJAYKUMAR JOSHI, MR SARVESH J bearing university serial number 1AH17AS026, 1AH17AS029 respectively, in partial fulfillment of award of the degree of Bachelor of Engineering in Aerospace Engineering, from Visvesvaraya Technological University, Belagavi during the year 2020-2021. The project report has been approved as it satisfies the academic requirement in respect of Project work prescribed for the degree.

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