

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

**1.3.4 INTERNSHIPS, PROJECTS
AND
COMMUNITY ENGAGEMENT PROOFS**

ACADEMIC YEAR 2022-23

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

1.3.4 INTERNSHIPS, PROJECTS AND COMMUNITY ENGAGEMENT PROOFS

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5	Somala Deepak Reddy 160119736016 Achanta Thandava Sai Rohith 160119736053 Anneparthi Uday Kiran 160119736054	13
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7	Bikkineni Ajith Rao 160119736013 Gottam Anvesh 160119736015 Gyajangi Sai Manishwar 160119736040	15
8	Pulipaka Harish 160119736019 Kasam Nikhil 160119736301 Kannoju Sharath Babu 160119736303	16
9	P Deepa 160119736004 G Navya 160119736006 M Hemalatha 160119736304	17
10	Nagamalla Sai Vamsi 160119736044 Chennamaneni Havish Rao 160119736020 Kasam Vineeth Kumar Goud 160119736058	18

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21	Lakshmi Anusha Wudali 160119736065 Indrakanti Ashritha 160119736063 Y. Venkat Karthik Sai 160119736116	29
22	Chinmay Krishna Peri 160119736075 Vamshi Gugulothu 160119736114 Vitesh Bharadwaj Mallibhat 160119736117	30
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35	Karthik Modugula 160119736079 Kiran Kumar Reddy Vuyyooru 160119736080 Murari Pushpa Raj Ale 160119736084	43
36	Nagavarun Samala 160119736085 Rohit Rahul Godse 160119736092 Nirmit Naha 160119736313	44

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37	Nithin Yavapuram 160119736086 Illuri Raghavendra 160119736090 Thangella Sunil Kumar 160119736108	45
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39	Sai Umesh Teegala 160119736096 P. Sidharth Reddy 160119736103 Suyog Sunil Sharnagat 160119736110	47
40	N. Divya 160119736064 G. Parameshwari 160119736070 V. Sunny 160119736109	48
41	Saba Iram 160119738005 Amaan Ullah Hasheme 160119738012 Mubeen Patel 160119738301	49
42	G. Choodamani Chandana 160119738001 G. Arun Kumar 160119738007 M. Mahesh 160119738010	50
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45	D. Ruchitha Reddy 160119738004 G. Vamshidhar Goud 160119738302 K. Venkata Ramana 160119738304	53
46	Maruri Nihal Linga Reddy 160119738013 Anugu Sampath Reddy 160119738016 Penna Sharvanth Reddy 160119738018	54
47	S. Srujana 160119738006 D. Bhavanirath Reddy 160119738008 P. Mahesh 160119738011	55
48	B. Pradeep Kumar 160119738014 P. Vamshi Krishna 160119738019 J. Vasu Dev 160119738021	56
49	Kakuturi Madhuri 160119738003 Yashashvitha Swaraj M 160119738305 Yantrapati Bhakth Singh 160119738306	57
50	Abdul Adnan 160118738009 Divya 160119738002	58

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55	Shaik Minhajuddin 160121765005	63
56	Mohammed Imad Ali 160121765006	64
57	Marturi Abhiram 160121745101	65
58	R Sai Kiran 160121745102	66
59	Yousuf Khan 160121745103	67
60	Mohd Abdul Aasim Nouman 160121745104	68
61	Gaddam Arun Kumar 160121745105	69
62	Gaddam Sathwika 160121745107	70
63	A Sai Naga Vamsi Vardhan 160121745108	71
64	Mohammed Kaif Ur Rahman 1601-22-736-039 Peri Jeeya Sastri 1601-22-736-009 Chaluvadi Nikhil 1601-22-736-021 Madagani Jeevan 1601-22-736-037 Shekhar Ganesh Rao 1601-22-736-051	72
65	Nalla Akhilesh Reddy 1601-22-736-042 Rangu Shreya 1601-22-736-010 Eslavath Siddu Nayak 1601-22-736-023 Mallareddygari Sujith Reddy 1601-22-736-038 T Emmanuel Prasanna Kumar 1601-22-736-053	73
66	Saharsh Reddy Musku 1601-22-736-048 Sabavath Usha 1601-22-736-011 Girijala Sai Raja Sekhar 1601-22-736-024 Mohd Sohail 1601-22-736-040 Uday Kiran 1601-22-736-054	74
67	Suligiri Arun Kumar 1601-22-736-052 Thammishetti Gayathri 1601-22-736-012 Gugulothu Sampath 1601-22-736-025 Mohd Zaid 1601-22-736-041 Mohammed Samaruddin Ahmed 1601-21-736-042	75
68	Amanda Madhuri 1601-22-736-071 Badilanka Deepthi 1601-22-736-073 Banoth Satwik Chandra 1601-22-736-087 Kasukurthi Ansel Joe Hamilton 1601-22-736-100 Sai Rahul Reddy Vajrala 1601-22-736-114	76

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70	Kolan Aishwarya 1601-22-736-075 Lingidi Varsha 1601-22-736-076 Chakali Prashanth 1601-22-736-089 Mallela Sriharinath 1601-22-736-103 Sheri Sai Srujan Reddy 1601-22-736-116	78
71	Peddi Prasanthi 1601-22-736-078 Maddi Srihitha 1601-22-736-077 Chiluka Sri Chandan Reddy 1601-22-736-090 Md Meer Sab Siddiqui 1601-22-736-105 Thammali Akshay Kumar 1601-22-736-117	79
72	Vesireddy Sai Chandana 1601-22-736-082 Samudrala Dakshitha Sri 1601-22-736-079 Chitturi Shanmukha Pavan Kumar 1601-22-736-091 Mogulla Dhruva 1601-22-736-106 Thota Ramanna Dora Prabhas 1601-22-736-118	80
73	Doddi Vinay Kumar 1601-22-736-093 Souda Pranavi 1601-22-736-080 Devarakonda Rohan 1601-22-736-092 Mula Yashwanth Raju 1601-22-736-108 Veeramaneni Nandeeshwar Rao 1601-22-736-120	81
74	Hemanth Kumar Bhaskar 1601-22-736-095 Vardelli Disharani 1601-22-736-081 Harshit Vema 1601-22-736-094 Nellikunta Koushik 1601-22-736-109 Yellugani Anjan Kumar Goud 1601-22-736-121	82
75	Koti Umakanth 1601-22-736-102 Vuppula Sri Pooja 1601-22-736-083 K Vansh Krishna Raj 1601-22-736-096 Peddamma Stalin 1601-22-736-110	83
76	Mallepula Saikiran Goud 1601-22-736-104 Avadhanam Jitin Karthik Krishna 1601-22-736-084 Kambalapally Vasu 1601-22-736-097 R Ajay Kumar 1601-22-736-111	84
77	Md Moulana Umar Farooque 1601-22-736-107 Bandi Surya Vardhana Reddy 1601-22-736-085 Kannoju Aawish 1601-22-736-098 Rachakonda Sai Punith 1601-22-736-112	85
78	Gayathri Nenavath 1601-22-736-005 Banoth Sangeetha 1601-22-736-001 Yandamuri Ratna Kumari 1601-22-736-013 Jayvulkundekar Kushal Adith 1601-22-736-027 Naveen K R 1601-22-736-043	86

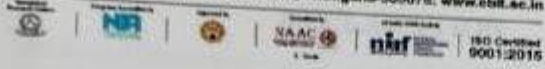
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79	B Vijayramakrishnarjun 1601-22-736-020 Barigela Akshara 1601-22-736-002 Abhishek Nagwani 1601-22-736-014 Kandhula Akhil Kumar 1601-22-736-028 Nayakanti Jew Ebenezer 1601-22-736-044	87
80	Dasari Chandan 1601-22-736-022 Chintala Rishika Mohana 1601-22-736-003 Arnav Reddy Kandada 1601-22-736-015 Karindaravilla Dani M Jyothi 1601-22-736-029 Nithin Kumar 1601-22-736-045	88
81	Haroon Fazl Vajrala 1601-22-736-026 Ganganamani Bhavika Laxmi 1601-22-736-004 Aska Sam Nischal 1601-22-736-016 Katukuri Salman Raju 1601-22-736-032 Parupalli Gowtham 1601-22-736-046	89
82	Katlakunta Sathwik 1601-22-736-031 Munipally Shilpa 1601-22-736-007 Bandaru Arshith Kumar Goud 1601-22-736-018 Konda Mukesh 1601-22-736-034 Sai Sankalp Reddy Baddam 1601-22-736-049	90
83	Vadde Sathwik 1601-22-736-119 Banoth Mukesh 1601-22-736-086 Kanumuri Jessy Paul 1601-22-736-099 Runku Shiva 1601-22-736-113	91


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COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

44
years

CERTIFICATE

This is to certify that the thesis entitled "DESIGN AND ANALYSIS OF TUNNEL DRYER FOR ANIMAL FEED" by the following members in partial fulfilment for the award of the degree of B.E. in Mechanical Engineering is a **Bonafide record of project work part-1** carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

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44
years

CERTIFICATE

This is to certify that the project report entitled **2-D BURN SURFACE REGRESSION MODELING OF STAR SHAPED SOLID PROPELLANT GRAIN BY ANALYTICAL METHOD** submitted by the following members in partial fulfillment for the award of the degree of **B.E in Mechanical Engineering** is a *bona fide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

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This is to certify that the project report entitled **DESIGN AND FABRICATION OF PROSTHETIC ROBOT ARM** submitted by the following members in partial fulfillment for the award of the degree of **B.E in Mechanical Engineering** is a *bona fide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

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years

CERTIFICATE

This is to certify that the project report entitled **DESIGN AND FABRICATION OF PERMEABLE PAVEMENTS FOR UTILIZING STORM WATER TO GENERATE HYDRO ELECTRICITY** submitted by the following members in partial fulfillment for the award of the degree of **B.E in Mechanical Engineering** is a *bona fide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

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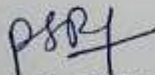
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EDUCATION


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years

CERTIFICATE

This is to certify that the project report entitled “*CFD ANALYSIS OF AIR CONDITIONING EFFECT IN OFFICE CHAMBER USING ANSYS*” submitted by the following members in partial fulfilment for the award of the degree of **B. E in Mechanical Engineering** is a *bona fide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

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A Dissertation Phase-II Report

On

**DESIGN AND ANALYSIS OF COMPOSITE ENCLOSURE FOR
MILITARY APPLICATIONS**

By

E. PRANITHA RAJ	160119736007
N. SATVIKA	160119736009
B. KOUSHIK RAJA VAMSHI GOUD	160119736025

Under the Guidance of

Dr. S. SOLOMON RAJ

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2023


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This is to certify that the project report entitled **Design And Fabrication of Seed Sower Machine** submitted by the following members in partial fulfillment for the award of the degree of **B. E in Mechanical Engineering** is a *bonafide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

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This is to certify that the thesis entitled "PERFORMANCE TEST ON IC ENGINE BY USING EDIBLE OIL BLENDED WITH DIESEL" submitted by the following members in partial fulfilment for the award of the degree of **B.E. in Mechanical Engineering** is a bonafide record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

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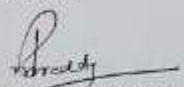
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This is to certify that the thesis entitled **FABRICATION AND CHARACTERIZATION OF INTERLAMINAR FRACTURE TOUGHNESS OF A CARBON/EPOXY COMPOSITE MATERIAL** by the following members in partial fulfilment for the award of the degree of B.E. Mechanical Engineering is a bonafide record of project work carried out under my supervision. The contents of this report, in full or in parts have not been submitted elsewhere for a degree.

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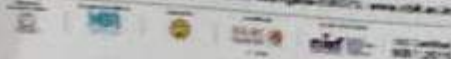
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CERTIFICATE

This is to certify that the project report entitled **ANALYSIS OF THE AUTOMOBILE WHEEL RIM** submitted by the following members in partial fulfillment for the award of the degree of **B. E in Mechanical Engineering** is a *bonafide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

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Kakapeet/Vikrampet, Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in




COMMITTED TO
RESEARCH
INNOVATION AND
EDUCATION

44
years

CERTIFICATE

This is to certify that the project report entitled **INVESTIGATION ON THE WELDABILITY CHARACTERISTICS OF DISSIMILARLY WELDED ALUMINIUM 6061-STAINLESS STEEL 304 FOR CAR BODY APPLICATIONS** submitted by the following members in partial fulfillment for the award of the degree of **B.E in Mechanical Engineering** is a bonafide record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- | | | | |
|----|---------------|---|--------------|
| 1. | P. MAANVI | - | 160119736005 |
| 2. | P. PRAVALLIKA | - | 160119736008 |
| 3. | M. SHREYA | - | 160119736010 |



Mr. D. Ravi

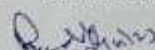
Supervisor

Assistant Professor

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Dr. P. Prabhakar Reddy

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Submitted to
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology(A)
(Affiliated to Osmania University)
Hyderabad-500075
2022-2023



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION

44
years

CERTIFICATE

This is to certify that the thesis entitled "Design and analysis of Power Generation Using Electromagnetic Suspension" by the following members in partial fulfilment for the award of the degree of B.E. in Mechanical Engineering is a Bonafide record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- 1. **BODDU AKASH** -160119736014
- 2. **KOTHA SAI SATHWICK** -160119736043
- 3. **SEERLA SIVA SAI** -160119736050

S. Narasimha Kumar
Dr. S.NARASIMHA KUMAR

Project guide

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Prabhu Reddy
Dr.P.PRABHAKAR REDDY
PROFESSOR & HEAD
HOD, Department of Mechanical Engineering
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Mechanical Engineering Dept
Kokapet, Hyderabad-500 075, Telangana

Date:

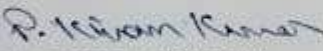
Place: Hyderabad




CERTIFICATE

This is to certify that the project report entitled **DESIGN AND ANALYSIS OF DIFFERENT FLOW CHANNELS IN PEMFC** submitted by the following members in partial fulfillment for the award of the degree of **B.E in Mechanical Engineering** is a *bonafide* record of project work carried out under our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- | | |
|------------------------------|----------------|
| 1. NALLA NIKHIL KUMAR | - 160119736032 |
| 2. MADURI YASHOVARDHAN | - 160119736059 |
| 3. GANDHAM SHANMUKHA SWAROOP | - 160119736049 |


Sri P. KIRAN KUMAR,
Supervisor
Assistant Professor
Mechanical Engineering Dept.


Dr. P. PRABHAKAR REDDY
Professor
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Mechanical Engineering Dept.



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COMMITTED TO
RESEARCH
INNOVATION AND
EDUCATION

44
years

CERTIFICATE

This is to certify that the project report entitled **DESIGN AND ANALYSIS OF BLADELESS DRONE BY OPTIMISATION OF DYSON THRUSTER DESIGN** submitted by the following members in partial fulfillment for the award of the degree of **B. E in Mechanical Engineering** is a *bona fide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

1. Abdul Ghani Hussain (160119736028)
2. Mohammed Bilal (160119736029)
3. Mohd Irfan (160119736030)

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Dr. P Prabhakar Reddy
Professor & Head,
Department of Mechanical
Engineering

PROFESSOR & HEAD

Department of Mechanical Engineering
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Sandipet, Hyderabad-500 075, Telangana

Date: 27/04/2023

Place: Hyderabad



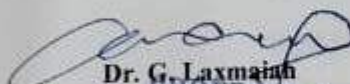
COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION


44
years

CERTIFICATE

This is to certify that the project report entitles **EXPERIMENTAL INVESTIGATION OF WEAR CHARACTERISTICS OF ALUMINIUM 7075 METAL MATRIX COMPOSITE** submitted by the following members in partial fulfillment for the award of the degree of **B.E in Mechanical Engineering** is a *bonafide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

1. KANJARLA RAHUL - 160119736302
2. SHANIGARAPU PAVAN - 160119736305
KALYAN
3. K PRAVEEN KUMAR - 160119736306


Dr. G. Laxman
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Mechanical Engineering Dept.


Dr. P. Prabhakar Reddy
Head of Department
Professor
Mechanical Engineering Dept.

PROFESSOR & HEAD
Department of Mechanical Engineering
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Gandipet, Hyderabad-500 075, Telangana



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Wangal, West Bengal, India. Phone: 033-26611111, 033-26611112
www.cbit.ac.in

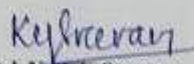
CELEBRATING 44
YEARS OF
PROGRESSIVE
EDUCATION


44
YEARS

CERTIFICATE

This is to certify that the project report entitled **INTELLIGENT BRAKING SYSTEM USING SOLAR PANEL** submitted by the following members in partial fulfillment for the award of the degree of **B.E in Mechanical Engineering** is a *bona fide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

1. PRAJEET GOUD - 160119736034
2. S. RAJEEV - 160119736038
3. HEMANTH YADAV - 160119736022


Sri. Yashoda Sreeram
Supervisor
Assistant Professor
Mechanical Engineering Dept.


Dr. P. Prabhakar Reddy
Head of Department
Professor
Mechanical Engineering Dept.



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Survey No. 10/100, Gandipet, Hyderabad - 500 075, www.cbh.ac.in



COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION


44
years

CERTIFICATE

This is to certify that the project report entitled **FABRICATION AND CHARACTERIZATION OF COMPOSITE POLYMER SCAFFOLDS** Submitted by the following members in partial fulfilment for the award of the degree of **B. E in Mechanical Engineering** is a *bonafide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- | | |
|-----------------------------------|---------------------|
| 1. MUNGI SAI KIRAN REDDY | 160119736039 |
| 2. MANCHALA SAMPATH KUMAR | 160119736046 |
| 3. LAKSHMI CATTI VENKATESH | 160119736056 |


T.N. Aditya
Assistant Professor
Supervisor


Dr. P. Prabhakar Reddy
Professor & Head,
Department of Mechanical
Engineering
PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075, Telangana

Date:

Place: Hyderabad



CERTIFICATE

This is to certify that the thesis entitled **EFFECT OF PROCESS PARAMETERS ON SURFACE FINISH IN EDM DIE SINKING** by the following members in partial fulfilment for the award of the degree of B.E. Mechanical Engineering is a bona fide record of project work carried out under my supervision. The contents of this report, in full or in parts has not been submitted elsewhere for a degree.

M.DIVIJ KUMAR	160119736018
S.MAHESH	160119736027

[Signature]
PROF. G. Chandramohan Reddy
 Principal (on deputation), MGIT
 Professor of mechanical engineering, CBIT

[Signature]
Dr. P. Prabhakar Reddy
PROFESSOR & HEAD
 Department of Mechanical Engineering
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Dept of Mechanical Engineering.
PROFESSOR
 Department of Mechanical Engineering
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Dept of Mechanical Engineering.



Department of Mechanical Engineering
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
 (Affiliated to Osmania University)
 HYDERABAD- 500 075



CERTIFICATE

This is to certify that the Project Seminar Report entitled "THERMAL ANALYSIS OF CORRUGATED PLATE HEAT EXCHANGER USING NANOFLUIDS" by the following members in partial fulfilment for the award of the degree of B.E. in mechanical engineering is a bonfide record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other institution or university for the award of any degree.

DEPAVATH PREM KUMAR	1601-19-736-036
BHAVANA VEERAM REDDY	1601-19-736-002
OMAR QUADEER AL HASSAN	1601-16-736-032

K.N.V.

Smt. K.N.V. Sreedevi
Supervisor
Assistant Professor
Mechanical Engineering Dept.

Prabhakar Reddy

Dr. P. Prabhakar Reddy
Head of Department
Professor
Mechanical Engineering Dept.

PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Nandipet, Hyderabad-500 075, Telangana



CERTIFICATE

This is to certify that the project report entitled **DESIGN, ANALYSIS AND MANUFACTURING OF A SIMPLE DIE FOR MAKING TESTING SPECIMENS** submitted by the following members in partial fulfilment for the award of the degree of B.E in Mechanical Engineering is a *bona-fide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.


HARSHA POTHINENI 1601-19-736-055

K.YASHWANTH 1601-19-736-060


N. Jyothirmayi

Assistant Professor

ASSISTANT PROFESSOR
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DR. P Prabhakar Reddy

Professor & Head,

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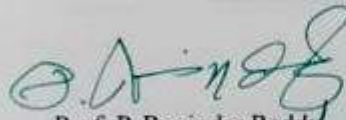
COMMITTED TO
RESEARCH
INNOVATION AND
EDUCATION


44
years

CERTIFICATE

This is to certify that this project report entitled "DESIGN OF COMPOSITE PANELS OF HYPERSONIC LAUNCH VEHICLES FOR THERMAL BUCKLING" submitted by the following students in fulfilment for the award of the degree of **Bachelor of Engineering in Mechanical Engineering** during the academic year **2022-23** is a bona fide record of the work carried out under our supervision. The contents of this report, full or in parts, have not been submitted to any Institution or University for award of any degree.

- | | |
|--------------------------|-----------------|
| 1. Lakshmi Anusha Wudali | 1601-19-736-065 |
| 2. Indrakanti Ashritha | 1601-19-736-063 |
| 3. Y. Venkat Karthik Sai | 1601-19-736-116 |


Prof. P. Ravinder Reddy
Principal, CBIT
(Project Guide)
20/04/2023


Prof. P. Prabhakar Reddy
Head,
Dept. of Mechanical
Engineering

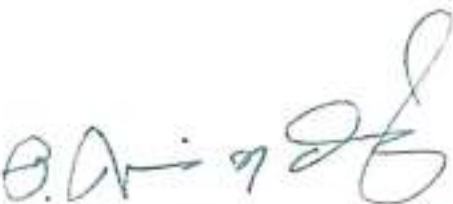
Date: 28th APRIL, 2023
Place: Hyderabad


PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075, Telangana

CERTIFICATE

This is to certify that this thesis entitled "A COMPARATIVE STUDY OF VARIOUS PARAMETERS OF BELL AND CONICAL NOZZLE" by following students, is a bonafide record of PROJECT WORK carried out under my supervision and have not been submitted to any other Institution or University for the award of any degree.

Chinmay Krishna Peri	160119736075
Vamshi Gugulothu	160119736114
Vitesh Bharadwaj Mallibhat	160119736117


Prof. P. Ravinder Reddy
Principal
CBIT, Hyderabad
25/04/2023


Prof. P. Prabhakar Reddy
Head
Mechanical Engineering Department

PROFESSOR & HEAD
Department of Mechanical Engineering
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Gandipet, Hyderabad-500 075, Telangana

Date: 25-04-2023

Place: Hyderabad



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INSTITUTE OF TECHNOLOGY (A)**
Kukatpally (Village), Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in



COMMITTED TO
RESEARCH
INNOVATION AND
EDUCATION

43
years

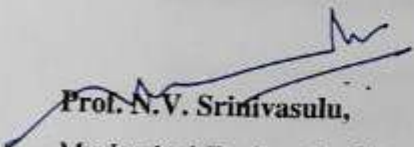
CERTIFICATE

This is to certify that the thesis entitled “**Development of a Mechanical Setup With Rotational and Translational Mechanism Using Additive Manufacturing**” by the following students is a bonafide record of Project work carried out under my supervision and have not submitted elsewhere for a degree.

Kathroju Lakshmi Prasanna 160119736066

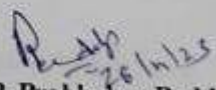
Sarikonda Abhinav 160119736072

Anumula Pavani 160119736312


Prof. N.V. Srinivasulu,

Mechanical Engineering Department

CBIT PROFESSOR
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Prof. Dr. P. Prabhakar Reddy

Head

Mechanical Engineering Department

PROFESSOR & HEAD
Department of Mechanical Engineering
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Gandipet, Hyderabad-500 075, Telangana

Date:

Place: **Hyderabad.**



COMMITTED TO
 RESEARCH,
 INNOVATION AND
 EDUCATION

44
 years

CERTIFICATE

This is to certify that the thesis entitled "PERFORMANCE EVALUATION OF COMPRESSION IGNITION ENGINE WITH NEEM OIL-DIESEL BLENDS" by the following members in partial fulfilment for the award of the degree of B.E. in Mechanical Engineering is a Bonafide record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

1. ANUMALA DHEEKSHITH - 160119736076
2. MOLLA SAMEER AHAMMED - 160119736083
3. MANISHA MODELA - 160119736309

Dr. K. Kishor
 Associate Professor, CBIT
 Supervisor

ASSOCIATE PROFESSOR
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Dr. P Prabhaker Reddy
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PROFESSOR & HEAD
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 Gandipet, Hyderabad-500 075. Telangana

Date:

Place: Hyderabad



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COMMITTED TO
RESEARCH
INNOVATION AND
EDUCATION

44
years

CERTIFICATE

This is to certify that the project "PERFORMANCE ANALYSIS OF MICROALGAE BIO-FUEL DIESEL BLENDS IN CI ENGINE" is the bonafied work carried out by following students of B.E.(MECH) of Chaitanya Bharathi Institute of Technology (A), Hyderabad, affiliated to Osmania University, Hyderabad, Telangana(India) during the academic year 2022-2023, submitted in partial fulfillment of the requirements for the award of the degree in Bachelor of Engineering (Mechanical Engineering) and that the project has not formed the basis for the award previously of any other degree, diploma, fellowship or any other similar title.

ANJALI VAMAM	- 160119736062
Y.SAI KRISHNA	- 160119736094
M.SAKETH	- 160119736100

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Mechanical Engineering Dept.
ASSOCIATE PROFESSOR
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Gandpet, Hyderabad-500 075. Telangana

Dr. P. PRABAKAR REDDY
Professor & Head
Mechanical Engineering Dept.
PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandpet, Hyderabad-500 075. Telangana



CERTIFICATE

This is to certify that the thesis entitled "PERFORMANCE EVALUATION ON DIESEL ENGINE USING JATROPHA BIO-DIESEL AND DIESEL BLENDS" by the following members in partial fulfilment for the award of the degree of B.E. in Mechanical Engineering is a Bonafide record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

NARIGE SRINIVAS	160119736105
GAJULA LAXMAN	160119736307
GANJI SAIRAM	160119736308

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 Head of Department
 Professor
 Mechanical engineering Department

V.V.R. Seshagiri Rao
Dr. V.V.R.SESHAGIRI RAO
 Associate Professor
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CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY (A)
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2021-2022

44

CERTIFICATE

This is to certify that the project "Design and Analysis of Solid Rocket Motor Casing for Aerospace Applications" is the bonafied work carried out by following students of B.E.(MECH) of Chaitanya Bharathi Institute of Technology (A), Hyderabad, affiliated to Osmania University, Hyderabad, Telangana(India) during the academic year 2021-2022, submitted in partial fulfillment of the requirements for the award of the degree in Bachelor of Engineering (Mechanical Engineering) and that the project has not formed the basis for the award previously of any other degree, diploma, fellowship or any other similar title .

Y.NAGASREE 160119736069

A. GOPI KRISHNA 160119736077

E. PREMA SAI 160119736089

Arijit Paul
Arijit Paul

Dr.V.V.R. Seshagiri Rao
Associate Professor ,CBIT
Supervisor

Arijit Paul
ARIJIT PAUL Scientist-F, RCL, DRDO
Project RudraM-II
Research Centre In-1 at
Dr. APJ Abdul Kalam Missile Complex
DRDO, Ministry of Defence,
Govt. of India, Hyderabad-69.

Dr. P. Prabhakar Reddy
Professor & Head,
Department of Mechanical Engineering

Date :

Place:Hyderabad



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Kikoleri(Village), Gandipet Hyderabad, Telangana-500 075. www.cbait.ac

COMMITTED TO
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INNOVATION AND
EDUCATION

44
years

CERTIFICATE

This is to certify that the project "Design and Analysis of Shaft Drive System For Bike" is the bonafied work carried out by following students of B.E.(MECH) of Chaitanya Bharathi Institute of Technology (A), Hyderabad, affiliated to Osmania University, Hyderabad, Telangana(India) during the academic year 2022-2023, submitted in partial fulfillment of the requirements for the award of the degree in Bachelor of Engineering (Mechanical Engineering) and that the project has not formed the basis for the award previously of any other degree, diploma, fellowship or any other similar title.

HEMAMSHU 160119736078

PRANAY TEJA 160119736088

SAI KIRAN 160119736098

Ch. Indira Priyadarshini
Ch Indira Priyadarshini

Assistant Professor at CBIT

Supervisor
ASSISTANT PROFESSOR
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)

Gandipet, HYDERABAD-500 075 (T.S.)
Date: 26-04-2023
Place: Hyderabad

Dr. Prabhakar Reddy
DR. Prabhakar Reddy

Professor & Head

Department of Mechanical Engineering

PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075, Telangana

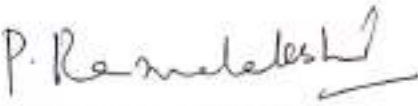



COMMITTED TO
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INNOVATION AND
EDUCATION

CERTIFICATE

This is to certify that the thesis entitled “FINITE ELEMENT ANALYSIS OF MWCNT REINFORCED GFRP COMPOSITE” by the following members in partial fulfillment for the award of the degree of B.E. in Mechanical Engineering is a bonafide record of project work carried out under my supervision. The contents of the report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- | | | |
|----------------------------|---|--------------|
| 1) VARSHITH KALVA | - | 160119736115 |
| 2) MATTA PAVAN GOUD | - | 160119736087 |
| 3) ESAMPALLY PRADEEP KUMAR | - | 160118736311 |


DR.P. RAMA LAKSHMI
Project Guide
Department of Mechanical Engineering.


DR. P PRABHAKAR REDDY
Professor & Head,
Department of Mechanical Engineering

PROFESSOR & HEAD
Department of Mechanical Engineering
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Gandipul, Hyderabad-500 075, Telangana

Date:

Place: Hyderabad



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Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. www.cbil.ac.in




COMMITTED TO
RESEARCH
INNOVATION AND
EDUCATION


44
years

CERTIFICATE

This is to certify that the thesis entitled "FINITE ELEMENT ANALYSIS OF COMPOSITE MATERIALS TO PREDICT THE DAMAGE FACTOR" by the following members in partial fulfillment for the award of the degree of B.E. in Mechanical Engineering is a Bonafide record of "PROJECT WORK" carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree

Bhukya Nagamani	- 160119736068
Pendyala Rajesh	- 160119736091
Ajmeera Rachana	- 160119736311


Dr. P. Rama Lakshmi
Assistant Professor
Supervisor


Prof. P. Prabhakar Reddy
Head
Mechanical Engineering Department

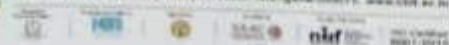
Date: 26-04-2023

Place: Hyderabad



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INSTITUTE OF TECHNOLOGY (A)**

Kankapet (Majeti), Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in



COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

44
years

CERTIFICATE

This is to certify that the project report entitled Semi-Autonomous Beach clearing Vehicle submitted by the following members in partial fulfillment for the award of the degree of B.E in Mechanical Engineering is a bonafide record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

1. Shaik Alamgeer Basha (160119736101)
2. Kadri Sumanth (160119736106)
3. Koppula Sumanth Reddy (160119736107)

SRP Prasad

Sri. P. Radhakrishna Prasad,

Asst-Professor

Supervisor

ASSISTANT PROFESSOR
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Dr. P Prabhakar Reddy

Dr. P Prabhakar Reddy

Professor & Head,

Department of Mechanical
Engineering

PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075, Telangana

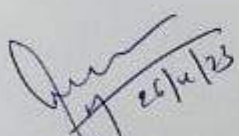
Date: 27-04-2023
Place: Hyderabad

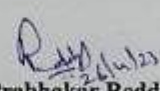


CERTIFICATE

This is to certify that the thesis entitled "STUDY OF THERMAL EFFECTS ON HEMISPHERICAL EMISSIVITY OF ALLOY MATERIAL FOR TURBINE ROTORS" by the following members in partial fulfillment for the award of the degree of B.E. in Mechanical Engineering is a Bonafide record of the project carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- | | |
|-----------------------------|---------------|
| 1. SHRAVYA SARUGU | -160119736071 |
| 2. SAI ANJAN KUMAR VEGE | -160119736093 |
| 3. SAI YASASVI DUTT MALLADI | -160119736097 |


DR. N. JANARDHAN
 (Project guide)
 Assistant Professor, CBIT
 Mechanical Engineering Dpt.


Dr. P. Prabhakar Reddy
 HOD,
 Mechanical Engineering Dpt.



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ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018 | NAAC | NIRF | AICTE | UGC

COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

44
years

CERTIFICATE

This is to certify that this thesis entitled “DESIGN AND ANALYSIS OF FIN BLADES USED IN CARGO AEROPLANES” by following students, is a bonafide record of PROJECT WORK carried out undermy supervision and have not been submitted to any other Institution or University for the award of any degree

KATANGUR MANASA REDDY


160119736067

JANGILI BHARADWAJ

160119736074

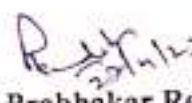
BOGAM MANOJ KUMAR

160119736082


Dr. Kiran Kumar Amireddy

Assistant Professor

Mechanical Engineering Department


Prof. P. Prabhakar Reddy

PROFESSOR & HEAD
HEAD Department of Mechanical Engineering
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Kondur, Hyderabad-500 076, Telangana

Mechanical Engineering Department

CERTIFICATE

It is to certify that the thesis entitled "**DESIGN AND ANALYSIS OF LADELESS WIND TURBINE**" by the following members in partial fulfillment of the award of the degree of **B.E. in Mechanical Engineering** is a **Bonafide** record of project work carried out under my supervision. The contents of this report, in whole or in parts, have not been submitted to any other Institution or University for the award of any degree.

- | | | |
|------------------------------|---|---------------------|
| 1) SAI PRAJWAL HARSHA | – | 160119736095 |
| 2) VEMULA SAI SHARAN | – | 160119736099 |
| 3) BJ SRIKARAN | – | 160119736104 |


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CERTIFICATE

This is to certify that the thesis entitled "PROCESS IMPROVEMENT ON THE WORKFLOW OF MUNICIPAL SOLID WASTE MANAGEMENT SITE AND WASTE-TO-ENERGY PLANT" by the following members in partial fulfilment for the award of the degree of B.E. in Mechanical Engineering is a Bonafede record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- | | | |
|-------------------------------|---|--------------|
| 1. KARTHIK MODUGULA | - | 160119736079 |
| 2. KIRAN KUMAR REDDY VUYYOORU | - | 160119736080 |
| 3. MURARI PUSHPA RAJ ALE | - | 160119736084 |

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COMMITTED TO
PROGRESS
INNOVATION AND
EDUCATION

44
years

CERTIFICATE

This is to certify that the project report entitled “**Design and Topology Optimization of Double Wishbone Suspension System**” submitted by the following members in partial fulfillment for the award of the degree of **B.E in Mechanical Engineering** is a *bona fide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- | | | |
|----------------------|---|--------------|
| 1) NAGAVARUN SAMALA | - | 160119736085 |
| 2) ROHIT RAHUL GODSE | - | 160119736092 |
| 3) NIRMIT NAHA | - | 160119736313 |

P. Anjani Devi
Smt. P. Anjani Devi

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Supervisor

Date: 27/04/2023

Place: Hyderabad

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P. Prabhakar Reddy
Dr. P. Prabhakar Reddy

Professor & Head,

Department of
Mechanical Engineering

PROFESSOR & HEAD
Department of Mechanical Engineering
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ISO Certified
9001:2015

CERTIFICATE

This is to certify that the project "DESIGN AND FABRICATION OF ACUPRESSURE BELT FOR LOWER BACK" is the bonafide work carried out by following students of B.E.(MECH) of Chaitanya Bharathi Institute of Technology (A), Hyderabad, affiliated to Osmania University, Hyderabad, Telangana(India) during the academic year 2022-23, submitted in partial fulfilment of the requirements for the award of the degree in Bachelor of Engineering (Mechanical Engineering) and that the project has not formed the basis for the award previously of any other degree, diploma, fellowship or another similar title.

- | | | |
|--------------------------|---|--------------|
| 1) NITHIN YAVAPURAM | - | 160119736086 |
| 2) ILLURI RAGHAVENDRA | - | 160119736090 |
| 3) THANGELLA SUNIL KUMAR | - | 160119736108 |

Ashutosh Sahu

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Dr. ASHUTOSH SAHU

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HYDERABAD - 500075

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Department of Mechanical Engineering

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P. Prabahakar Reddy
26/11/23

Head of Department

Dr. P. PRABAHAKAR REDDY

PROFESSOR & HEAD

Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075, Telangana



COMMITTED TO
 RESEARCH,
 INNOVATION AND
 EDUCATION

43
 years

CERTIFICATE

This is to certify that the thesis entitled “Investigation on the noise and performance of SI Engine with fuel blends(Butanol, Isopropanol) and pure Gasoline” by the following students is a bonafide record of Project work carried out under my supervision and have not submitted elsewhere for a degree.

Anil Vanam	160118736068
Asgar Hussain	160119736111
Uday Reddy	160119736113

Ipsita Mohanty
 27.4.23
Asst.Prof. Ipsita Mohanty
Mechanical Engineering,
CBIT, Hyderabad.

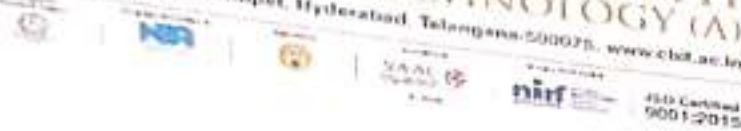
Prabhakar Reddy
 27/4/23
Prof. Dr. P. Prabhakar Reddy
Head
Mechanical Engineering Department

Date:

Place: Hyderabad



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COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

44
years

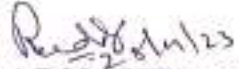
CERTIFICATE

This is to certify that the thesis entitled "DESIGN AND MANUFACTURING OF ADJUSTABLE KNUCKLE FOR DOUBLE WISHBONE SUSPENSION" by the following members in partial fulfilment for the award of the degree of B.E. in Mechanical Engineering is a Bonafide record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- | | | |
|--------------------------|---|--------------|
| 1) SAI UMESH TEEGALA | – | 160119736096 |
| 2) P. SIDHARTH REDDY | – | 160119736103 |
| 3) SUYOG SUNIL SHARNAGAT | – | 160119736110 |


Project Guide:

Sri. CH. SHARATH REDDY
Assistant Professor
Mechanical Engineering Dept.


Dr. P PRABHAKAR REDDY
Professor & Head
Mechanical Engineering Dept.



CERTIFICATE

This is to certify that the project “**Design and Analysis of Exhaust Valve Using Various Materials**” is the bonafide work carried out by following students of **B.E.(MECH)** of Chaitanya Bharathi Institute of Technology (A), Hyderabad, affiliated to Osmania University, Hyderabad, Telangana(India) during the academic year 2021-2022, submitted in partial fulfillment of the requirements for the award of the degree in **Bachelor of Engineering (Mechanical Engineering)** and that the project has not formed the basis for the award previously of any other degree, diploma, fellowship or any other similar title.

N. DIVYA	160119736064
G. PARAMESHWARI	160119736070
V. SUNNY	160119736109

Reddy
27/04/23
Ms. R. Navaneetha

Assistant Professor, CBIT

Department of Mechanical Engineering

ASSISTANT PROFESSOR
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Reddy
27/4/23
Dr. P.Prabhakar Reddy

Professor & Head,

Department of Mechanical Engineering

PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075, Telangana

Date:

Place:Hyderabad



CERTIFICATE

This is to certify that the project report entitled **Defects detection in bottle manufacturing and Packaging** submitted by the following members in partial fulfillment for the award of the degree of B.E in **Industrial Production Engineering** is a *bona fide* record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- | | |
|------------------------|----------------|
| 1. Saba Iram | (160119738005) |
| 2. Amaan Ullah Hasheme | (160119738012) |
| 3. Mubeen Patel | (160119738301) |

V Reddy
26/04/2023
Sri. V. Jaipal Reddy,
Assistant Professor

P Prabhakar Reddy
26/04/23
Dr. P Prabhakar Reddy
Professor & Head,
Department of Mechanical
Engineering

Date: 26-04-2023

Place: Hyderabad

PROFESSOR & HEAD
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Gandipet, Hyderabad-500 075. Telangana



CERTIFICATE

This is to certify that the thesis entitled **"DESIGN AND ANALYSIS OF AUTOMOTIVE MUFFLER"** by the following members in partial fulfilment for the award of the degree of **B.E. in Production Engineering** is a Bonafede record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other institution or University for the award of any degree.

- | | | |
|----------------------------------|---|--------------|
| 1. G. CHOODAMANI CHANDANA | - | 160119738001 |
| 2. G. ARUN KUMAR | - | 160119738007 |
| 3. M. MAHESH | - | 160119738010 |

Y. Nagini
27/04/23
Dr. Y. NAGINI

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R. Prabhakar Reddy
Dr. P. PRABHAKAR REDDY

HOD,
PROFESSOR & HEAD
Department of Mechanical Engineering
Mechanical Engineering Dept
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COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

44
years

CERTIFICATE

This is to certify that the thesis entitled "DESIGN AND ANALYSIS OF BATTERY COOLING SYSTEM IN ELECTRIC VEHICLE USING CFD" by the following members in partial fulfilment for the award of the degree of B.E. in Mechanical Engineering is a Bonafede record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

G. RAMAKOTESHWARA RAO	-	160119738015
P. SHASHANK VARMA	-	160119738017
B. DIVYA	-	160119738303

M. Madhuri
26/04/23
Smt. D.S. MADHURI

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P. Prabhakar Reddy
26/04/23
Dr. P. PRABHAKAR REDDY

HOD,
PROFESSOR & HEAD
Mechanical Engineering Dept.
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Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. www.cbil.ac.in

COMMITTED TO
RESEARCH
INNOVATION AND
EDUCATION

44
years

CERTIFICATE

*This is to certify that the thesis entitled "Power Saving System for Lathe" by the following members in partial fulfilment for the award of the degree of **B.E. in Industrial and Production Engineering** is a bonafide record of project work part-1 carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.*

CH. MAHARSHI REDDY	-	160119738009
E. VARUN REDDY	-	160119738020
B. VISHNU CHARAN.	-	160119738022

Project guide

A. CHANDRAKANTH

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ASSISTANT PROFESSOR
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
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Prof. & HOD

Dr. P. PRABHAKAR REDDY

Mechanical Engineering Dept
PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075, Telangana

II

CERTIFICATE

This is to certify that the thesis entitled "AI BASED AUTOMATIC RAILWAY GATES AT UNMANNED RAILWAY CROSSING" by the following members in partial fulfilment for the award of the degree of B.E. in Production Engineering is a Bonafide record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- | | |
|----------------------|----------------|
| 1. D RUCHITHA REDDY | - 160119738004 |
| 2. G VAMSHIDHAR GOUD | - 160119738302 |
| 3. K VENKATA RAMANA | - 160119738304 |



Dr. RAHUL

Project guide

Mechanical Engineering Dept.



Dr. P. PRABHAKAR REDDY

Head of the department.

Mechanical Engineering Dept.

PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075. Telangana



CERTIFICATE

This is to certify that the thesis entitled "Coupling of Two Dissimilar Metals by Submerged Arc Welding and Optimizing the Mechanical Properties" by the following members in partial fulfilment for the award of the degree of B.E. in Mechanical Engineering is a Bonafede record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

MARURI NIHAL LINGA REDDY	-	160119738013
ANUGU SAMPATH REDDY	-	160119738016
PENNA SHARVANTH REDDY	-	160119738018

Dr. L. SURESH KUMAR

Project guide

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Dr. P. PRABHAKAR REDDY

Prof. & HOD,

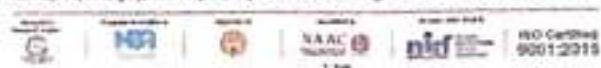
Mechanical Engineering Dept

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COMMITTED TO
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INNOVATION AND
EDUCATION

44
years

CERTIFICATE

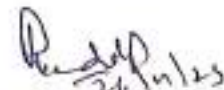
This is to certify that the this entitled “ **FINITE ELEMENT ANALYSIS OF BI-METALLIC I-SECTION**” by the following members in partial fulfilment for the award of the degree of **B.E. in Mechanical Engineering** is a Bonafede record of project work part-2 carried out under my supervision. The contents of this report, in full or in parts ,have not been submitted to any other Institution or University for the award of any degree.

S.SRUJANA	-	160119738006
D.BHAVANIRATH REDDY	-	160119738008
P.MAHESH	-	160119738011


Dr.N.V.Srinivasulu

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Dr.P.Prabhakar Reddy

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PROFESSOR & HEAD
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Gandipet, Hyderabad-500 075, Telangana

CERTIFICATE

This is to certify that the project report entitled "Fire Fighting Robot Using Iot Devices and AI Techniques" by the following members in partial fulfilment for the award of the degree of B.E. in Mechanical Engineering is a Bonafide record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

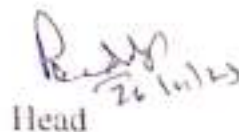
B. PRADEEP KUMAR	-	160119738014
P. VAMSHI KRISHNA	-	160119738019
J. VASU DEV	-	160119738021



Supervisor

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ASSOCIATE PROFESSOR
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COMMITTED TO
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INNOVATION AND
EDUCATION

44
years

CERTIFICATE

This is to certify that the project report entitled "**Design and Fabrication of Stir Casting Machine**" submitted by the following members in partial fulfilment for the award of the degree of **B.E. in Production Engineering** is a bonafide record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

1. KAKUTURI MADHURI - 160119738003
2. YASHASHVITHA SWARAJ. M - 160119738305
3. YANTRAPATI BHAKTH SINGH - 160119738306

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Supervisor

Dr. Md. Aleem Pasha

Associate Professor

ASSOCIATE PROFESSOR
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Gandipet, Hyderabad-500 075. Telangana

[Handwritten Signature]
Head

Dr. P. Prabhakar Reddy

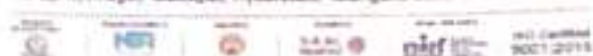
Professor

PROFESSOR & HEAD
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COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

44
years

CERTIFICATE

This is to certify that the project report entitled "**Analysis of Dissimilar Weld Joint Made by Friction Stir Welding**" submitted by the following members in partial fulfillment for the award of the degree of B.E in **Production Engineering** is a bonafide record of project work carried out under my/our supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

1. Abdul Adnan

(160118738009)

2. Divya

(160119738002)

Dr. Hari Krishan Yadav
Assistant Professor
Supervisor

ASSISTANT PROFESSOR
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, HYDERABAD-500 075 (T.S.)
Place: Hyderabad

Dr. P Prabhakar Reddy
Professor & Head,
Department of Mechanical
Engineering

Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-500 075 (T.S.)



CERTIFICATE

This is to certify that the Dissertation entitled “**Design And Analysis of an Air Oil Separator for High Temperature Test Rig**” was submitted by **MEGAVATH SANDHYA**, bearing Roll No. **160121765001** in partial fulfilment for the award of the degree of **Master of Engineering** in **Mechanical Engineering** with specialization in **CAD/CAM** during the academic year 2021-2023 in Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad was carried out under my supervision and that this work was not submitted elsewhere for the award of any other degree.

Dr. N. V. Srinivasulu

Professor

Mechanical Engineering Department

PROFESSOR

Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-500 075 (A.S.)

Digvijay 20/23
Mr. Digvijay Yadav

Project Engineer

Design and Precision Application Lab

R. S. S. 20/1/23
PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075. Telangana



CERTIFICATE

This is to certify that the Dissertation entitled "**Design and Analysis of Fixture for High speed Prime mover**" was submitted by **ASPALA SHIVARAM**, bearing Roll No. 1601-21-765-002 in partial fulfilment for the award of the degree of **Master of Engineering in Mechanical Engineering** with specialization in **CAD/CAM** during the academic year 2021-2023 in Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad was carried out under my supervision and that this work was not submitted elsewhere for the award of any other degree.

Reddy

Dr. P. Prabhakar Reddy

Professor and Head of department
Mechanical Engineering Department

P. Ravinder Reddy

Dr. P. Ravinder Reddy

Professor
Mechanical Engineering Department

PROFESSOR & HEAD

Department of Mechanical Engineering

Chaitanya Bharathi Institute of Technology (A)

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PROFESSOR

Department of Mechanical Engineering

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Gandipet, HYDERABAD-500 075 (I.S.)



CERTIFICATE

This is to certify that the Dissertation entitled "Experimental Investigation of Effect of Different Ash Fillers on Mechanical and Wear Characteristics of Carbon Fiber Composites" was submitted by Naresh Kumar Nunavath, bearing Roll No. 1601-21-765-003 in partial fulfillment for the award of the degree of Master of Engineering in Mechanical Engineering with specialization in CAD/CAM during the academic year 2022-2023 in Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad was carried out under my supervision and that this work was not submitted elsewhere for the award of any other degree.

Prabhakar
 Dr. P. Prabhakar reddy
 Professor and Head of Department
 Mechanical Engineering Department
PROFESSOR & HEAD
 Department of Mechanical Engineering
 Chaitanya Bharathi Institute of Technology (A)
 Gandipet, Hyderabad-500 075, Telangana

S. Solomon Raj
 Dr. S. Solomon Raj
 Associate Professor
 Mechanical Engineering Department
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 Chaitanya Bharathi Institute of Technology (A)
 Gandipet, Hyderabad-500 075, Telangana



CERTIFICATE

This is to certify that the Dissertation entitled "**Design and Development of Hydraulic System for a High Precision Assembly Application**" was submitted by **VADTHYA NAVEEN**, bearing Roll No. **160121765004** in partial fulfilment for the award of the degree of **Master of Engineering in Mechanical Engineering** with specialization in **CAD/CAM** during the academic year 2021-2023 in Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad was carried out under my supervision and that this work was not submitted elsewhere for the award of any other degree.

Dr. P. Prabhakar Reddy
20/10/23

Dr. P. Prabhakar Reddy
Professor & Head of the Department
Mechanical Engineering Department

PROFESSOR & HEAD
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Mr. Digvijay Yadav

Project Engineer
Design and Precision Application Lab


Digvijay
20/10/23

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)
DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE

This is to certify that the Dissertation entitled "**Designing Mechanical Service For The High Rise Building**" was submitted by **SHAIK MINHAJ UDDIN**, bearing Roll No. 1601-21-765-005 in partial fulfilment for the award of the degree of **Master of Engineering in Mechanical Engineering** with specialization in **CAD/CAM** during the academic year 2021-2023 in Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad was carried out under my supervision and that this work was not submitted elsewhere for the award of any other degree.


DR. P. PRABHAKAR REDDY
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CERTIFICATE

This is to certify that the Dissertation entitled "**Design and Analysis of High Speed Coupling For Aerospace Application**" was submitted by **MOHAMMED IMAD ALI**, bearing Roll No. **1601-21-765-006** in partial fulfilment for the award of the degree of **Master of Engineering in Mechanical Engineering** with specialization in **CAD/CAM** during the academic year 2021-2023 in Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad was carried out under my supervision and that this work was not submitted elsewhere for the award of any other degree.

DR. P. PRABHAKAR REDDY
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Dr. G LAXMAIAH
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CERTIFICATE

This is to certify that the Thesis entitled "Experimental study on Corrugated Heat Exchanger using a Non-Newtonian Fluid" being submitted by **Mr. M. Abhiram**, (Roll No. 1601-21-745-101) for the award of the degree of *Master of Engineering in Thermal Engineering* to **The Chaitanya Bharathi Institute of Technology (A)**, Hyderabad-500075, India is a record of the Bonafide research work carried out by him under my supervision. The thesis has fulfilled the requirements according to the regulations of this Institute and in my opinion has reached the standards for submission. The results embodied in the thesis have not been submitted to any other University or Institute for the award of any degree.

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CERTIFICATE

This is to certify that the Thesis entitled "THERMAL ANALYSIS OF ENGINE BAY COOLING OF FUTURISTIC UNMANNED AIRCRAFT" by R.SAI KIRAN, Roll No. 1601-21-745-102 is a Bonafide record of project work carried out under my supervision and has not submitted elsewhere for a degree.

Dr. P. Prabhakar Reddy

Dr. P. PRABHAKAR REDDY

**Prof. & H.O.D
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Dr. V.V.R Seshagiri Rao

Dr. V.V.R SESHAGIRI RAO


Project Guide
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Gandipet, Hyderabad-500 075, Telangana



CERTIFICATE

This is to certify that the Thesis entitled "CONTROL OF POLLUTION LEVELS WITH CERAMIC COATED DIESEL ENGINE FUELED USING BIOGAS AND COTTONSEED BIODIESEL" by YOUSUF KHAN, Roll No. 1601-21-745-103 is a bonafide record of project work carried out under my supervision and has not submitted elsewhere for a degree.


Dr. P. Prabhakar Reddy
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CERTIFICATE

This is to certify that the Thesis entitled "EXPERIMENTAL INVESTIGATION ON CERAMIC COATED DIESEL ENGINE FUELED WITH BIO GAS AND COTTONSEED BIODIESEL" by M.A. AASIM NOUMAN, Roll No. 1601-21-745-104 is a bonafide record of project work carried out under my supervision and has not submitted elsewhere for a degree.

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Dr. N. JANARDHAN

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 Mechanical Engineering
 Department



CERTIFICATE

This is to certify that the thesis entitled "Aerodynamic Evaluation of bus Body Design Using Computational Fluid Dynamics (CFD)" by G. Arun Kumar (1601-21-745-105) is a bonafide record of project work carried out under my supervision and has not submitted elsewhere for a degree.

Dr. P. Prabhakar Reddy
16/10/23

Dr.P. Prabhakar Reddy

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Department of Mechanical Engineering
PROFESSOR & HEAD
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Dr. Ch. Indira Priyadarshini

Dr. Ch. Indira Priyadarshini

Assistant Professor

Department of Mechanical Engineering
ASSISTANT PROFESSOR
 Department of Mechanical Engineering
 Chaitanya Bharathi Institute of Technology (A)
 Gandipet, HYDERABAD-500 075 (T.S.)

Date:

Place: Hyderabad



CERTIFICATE

This is to certify that the thesis entitled "HEAT TRANSFER ENHANCEMENT OF A HEATING AND COOLING SYSTEMS WITH NON CONVENTIONAL ENERGY" by G.SATHWIK (1601-21-745-107) is a bonafide record of project work carried out under my supervision and has not submitted elsewhere for a degree.

Reddy
21/10/23
Dr.P.PRABHAKAR REDDY

Prof and HOD

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Y. Nagini
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Dr.Y. NAGINI

Assistant Professor

Mechanical Engineering Department

Date: 19/10/23

Place: Hyderabad



CERTIFICATE

This is to certify that the thesis entitled "PERFORMANCE ANALYSIS OF PELTIER MODULE REFRIGIRATOR" by A.K.S.N VAMSI VARDHAN (1601-21-745-108) is a bonafide record of project work carried out under my supervision and has not submitted elsewhere for a degree.


Dr. P. Prabhakar Reddy

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Place: Hyderabad



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CERTIFICATE

This is to certify that the **PROJECT REPORT** with the title **"MID DAY MEALS"** submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-039	MOHAMMED KAIF UR RAHMAN
1601-22-736-009	PERI JEEVA SASTRI
1601-22-736-021	CHALUVADI NIKHIL
1601-22-736-037	MADAGANI JEEVAN
1601-22-736-051	SHEKKAR GANESH RAO

For. YLL

Smt. N. Jyothirmayi

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Prof. YLL

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CERTIFICATE

This is to certify that the PROJECT REPORT with the title “VISIT RURAL SCHOOLS/MID-DAY MEALS CENTRES, STUDY ACADEMIC AND INFRASTRUCTURAL RESOURCES AND GAPS” submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokaper, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-042	NALLA AKHILESH REDDY
1601-22-736-010	RANGU SHREYA
1601-22-736-023	ESLAVATH SIDDU NAYAK
1601-22-736-038	MAJAREDDYGARI SUJITH REDDY
1601-22-736-053	TEMMANUEL PRASANNA KUMAR

for. JH
Smt. N. Jyothirmayi

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This is to certify that the PROJECT REPORT with the title “**INFRASTRUCTURE DEVELOPMENT IN RURAL AREA**” submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

Roll No	Name
1601-22-736-048	SAHARSH REDDY MUSKU
1601-22-736-011	SABAVATH USHA
1601-22-736-024	GIRIJALA SAI RAJA SEKHAR
1601-22-736-040	MOHIJ SOHAIL
1601-22-736-054	LUDAY KIRAN

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This is to certify that the **PROJECT REPORT** with the title **“INTERACTION WITH SELF HELP GROUP MEMBERS”** submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-052	SULIGIRI ARUN KUMAR
1601-22-736-012	THAMMISHETTI GAYATHRI
1601-22-736-025	GUGULOTHU SAMPATH
1601-22-736-041	MOHD ZAID
1601-21-736-042	MOHAMMED SAMARUDDIN AIMED

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CERTIFICATE

This is to certify that the PROJECT REPORT with the title "A MEDICAL AND HEALTH STUDY ON KONDAPUR" submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kondapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-071	AMANDA MADHURI
1601-22-736-073	BADILANKA DEEPTHI
1601-22-736-087	BANOTH SATWIK CHANDRA
1601-22-736-100	KASUKURTHI ANSEL JOE HAMILTON
1601-22-736-114	SAI RAHUL REDDY VASRALA

fo *YU*

Smt. N. Jyothirmayi

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CERTIFICATE

This is to certify that the PROJECT REPORT with the title "STUDY OF EDUCATION FACILITIES OF SIANKARPALLI" submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-072	ARRAM SRIVENI
1601-22-736-074	GOSWAMY HARSHINI
1601-22-736-088	BYAGARI SUDHAKAR
1601-22-736-101	KOTAKONDA BHUVANESH
1601-22-736-115	SAI SARVANTATA

Smt. N. Jyothirmayi

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Mechanical Engineering Department

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CERTIFICATE

This is to certify that the PROJECT REPORT with the title “**ANGANWADIS PERFORM A CRUCIAL ROLE IN CONTRIBUTING TO THE LIFE OUTCOMES OF CHILDREN ACROSS INDIA**” submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-075	KOLAN AISHWARYA
1601-22-736-076	LINGIDI VARSHA
1601-22-736-089	CHAKALI PRASHANTH
1601-22-736-103	MALLELA SRIHARINATH
1601-22-736-116	SHERI SAI SRUJAN REDDY

for - 2A
Smt. N. Jyothirmayi
Assistant Professor
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Prof. N. Jyothirmayi
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Chaitanya Bharathi Institute of Technology (A)
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years

CERTIFICATE

This is to certify that the PROJECT REPORT with the title “COMMUNITY ENGAGEMENT - REPORT OF VILLAGE KONDA BALA VARI PALEM, KAKUMANU, GUNTUR” submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-078	PEDDI PRASANTHI
1601-22-736-077	MADDI SRIHITHA
1601-22-736-090	CHILUKA SRI CHANDAN REDDY
1601-22-736-105	MD MEER SAB SIDDIQUI
1601-22-736-117	THAMMALAKSHAY KUMAR

for Smt
Smt. N. Jyothirmayi

Assistant Professor

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[Signature]
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CERTIFICATE

This is to certify that the PROJECT REPORT with the title
“COMMUNITY ENGAGEMENT PROJECT VILLAGE: CHANDIPPA”
submitted by the following students to Chaitanya Bharathi Institute of Technology,
Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by
him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-082	VESIREDDY SAI CHANDANA
1601-22-736-079	SAMUDRALA DAKSHITHA SRI
1601-22-736-091	CHITTURI SHANMUKHA PAVAN KUMAR
1601-22-736-106	MOGULIA DHRUVA
1601-22-736-118	THOTA RAMANNA DORA PRABHAS

fa. YAD

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years

CERTIFICATE

This is to certify that the PROJECT REPORT with the title “ANGANWADI AND IT'S WORKING IN NEARBY VILLAGE” submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-093	DODDI VINAY KUMAR
1601-22-736-080	SOUDA PRANAVI
1601-22-736-092	DEVARAKONDA ROHAN
1601-22-736-108	MULA YASHWANTH RAJU
1601-22-736-120	VEERAMANENI NANDEESHWAR RAO

for YAD
Smt. N. Jyothirmayi

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years

CERTIFICATE

This is to certify that the PROJECT REPORT with the title “COMMUNITY ENGAGEMENT - KONDAPAKA A VILLAGE” submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-095	HEMANTH KUMAR BIASKAR
1601-22-736-081	VARDELLI DISHARANI
1601-22-736-094	HARSHIT VEMA
1601-22-736-109	NELLIKUNTA KOUSHIK
1601-22-736-121	YELLUGANI ANJAN KUMAR GOUD

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44
years

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This is to certify that the PROJECT REPORT with the title “**REPORT OF A VILLAGE: SINGAPUR, HUZURABAD, KARIMNAGAR**” submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-102	KOTI UMAKANTH
1601-22-736-083	VUPPULA SRI POOJA
1601-22-736-096	K VANSI KRISHNA RAJ
1601-22-736-110	PEDDAMMA STALIN
1601-22-736-102	KOTI UMAKANTH

for YAD
Smt. N. Jyothirmayi

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This is to certify that the **PROJECT REPORT** with the title **“AGRICULTURE IN ATMAKUR”** submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-104	MALLEPULA SAIKIRAN GOUD
1601-22-736-084	AVADHANAM JITIN KARTHIK KRISHNA
1601-22-736-097	KAMBALAPALLY VASU
1601-22-736-111	R AJAY KUMAR

for Yds

Smt. N. Jyothirmayi

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[Signature]

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CERTIFICATE

This is to certify that the PROJECT REPORT with the title “GUNUPUDI, WEST GODAVARI, ANDHRA PRADESH” submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-107	Md MOLLANA UMAR FAROOQUE
1601-22-736-085	BANDI SURYA VARDHANA REDDY
1601-22-736-098	KANNOJU AAWISH
1601-22-736-112	RACHAKONDA SAI PUNITH

Smt. N. Jyothirmayi

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This is to certify that the PROJECT REPORT with the title “**SELF HELP GROUP**” submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-005	GAYATHRI NENAVATH
1601-22-736-001	BANOJH SANGEETHA
1601-22-736-013	YANDAMURI RATNA KUMARI
1601-22-736-027	JAYVULKUNDEKAR KUSHAL ADITH
1601-22-736-043	NAVEEN K R


Dr. Y. Nagini

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This is to certify that the PROJECT REPORT with the title "**REPORT WRITING, VILLAGE KOLLUR (ZPHS)**" submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-020	B VIJAYKAMAKRISHNARJUN
1601-22-736-002	BARJELA AKSHARA
1601-22-736-014	ABHISHEK NAGWANJ
1601-22-736-028	KANDHULA AKHIL KUMAR
1601-22-736-044	NAYAKANTI JRW EBENEZER

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This is to certify that the PROJECT REPORT with the title “COMMUNITY ENGAGEMENT” submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

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1601-22-736-022	DASARI CHANDAN
1601-22-736-003	CHINTALA RISHIKA MOHANA
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ROLL NO	NAME
1601-22-736-026	HAROON FAZL VAJRALA
1601-22-736-004	GANGANAMANI BHAVIKA LAXMI
1601-22-736-016	ASKA SAM NISCHAL
1601-22-736-032	KATUKURI SALMAN RAJU
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This is to certify that the PROJECT REPORT with the title “CHANDIPPA VILLAGE” submitted by the following students to Chaitanya Bharathi Institute of Technology, Hyderabad, Kokapet, India is a record of Bonafide Project work carried out by him/her under the guidance of our Supervisor.

ROLL NO	NAME
1601-22-736-031	KATLAKUNTA SATHWIK
1601-22-736-007	MUNIPALLY SHILPA
1601-22-736-018	BANDARU ARSHITH KUMAR GOUD
1601-22-736-034	KONDA MUKESH
1601-22-736-049	SAI SANKALP REDDY BADDAM

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ROLL NO	NAME
1601-22-736-119	VADDE SATIWIK
1601-22-736-086	BANOTH MUKESH
1601-22-736-099	KANUMURI JESSY PAUL
1601-22-736-113	RUNKU SHIVA

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