CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING 1.3.4 INTERNSHIPS, PROJECTS

AND

COMMUNITY ENGAGEMENT PROOFS

ACADEMIC YEAR 2023-24

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING 1.3.4 INTERNSHIPS, PROJECTS

AND

COMMUNITY ENGAGEMENT PROOFS

SNo	Name & Roll Number of the Student	Proof Page Number
1		7
2	Girinath Bharathakavi 160120736079 Karthik Thumuganti 160120736082	
3	Sai Samanvith Tirunagari 160120736100	8
4		9
5	Aditya Subbarao Varupula 160120736074	
6	Ch B Sankar 160120736078 Jashwanth Gajula 160120736080	
7	,	10
9	Phanitha Boda 160120736066 Koushik Devulapelly 160120736083	
10	Manideep Dasari 160120736084	11
11	Nagavishnu Allagadda 160120736089	
12	Praneeth Ram Kummara 160120736091 Rishab Erramilli 160120736093	
13	100120730033	12
14	Nagaraju Gouri 160120736087	
15	Shashi Kiran Mankala 160120736103 Vamshi Kumar Kalyaboini 160120736108	
16		13
17	Sreenija Morumpalli 160120736071 Srichandana Duggyampudi 160120736072	
18	Shaik Nausheen Firdouz 160120736069	14
19 20	Venkata Sai Chandra Veerlapally 160120736109 Vignesh Suryadevara 160120736111	15
21		16
22	- Bhukya Sagar 160120736307 Banoth Kalyan 160120736308	
23		17
24	Arya Bhatta Charan Bongarala 160120736077 Santhosh Jakkula 160120736102	
25	Venu Putta 160120736110	
26		18
27	Thota Shiva 160120736309 Bingi Uday Kiran 160120736310 Maloth Maheshwari 160120736312	

SNo	Name & Roll Number of the Student	Proof Page Number
29		19
30	Afreen Begum 160120736061	
31	Divya Sirigari 160120736062 Pranay Kumar Aruri 160120736090	
32	Tranay Kamar Aran 100120730030	20
33	 Satatha Paleti	
34	Shravan Kumar Bairi 160120736104	
35	Sri Harsha Devanapalli 160120736105	21
36	Mohammed Shaguftha 160120736063	21
37	Abhiram Reddy Telakala 160120736073	22
38	Punnam Chander Thatipamula 160120736092	22
39	Ruthvik Dev Akuthota 160120736094	
40	Sai Kiran Regu 160120736097	
41		23
	K sai kiran 160120736096 B Suresh 160120736106	
42	Naga Sai Sri Pranav Sagar Gangu 160120736086	
43	Mounika Badavath 160120736064	24
44	Nikhitha Punati 160120736065	
45		25
46	Karthik Arnav Gummadi 160120736081	
47	Nagasathwik Sharma Kasula 160120736088 Sai Koushik Chinthapandu 160120736098	
48		26
49	Thipparthi Sumanth 160120736319	
50	Narisetti Jyothi Jagadish 160120736320 Charan Sai Goli 160120736321	
51	Sai Sabareesh Reddy Neelam 160120736099	27
52	Sai Charan Reddy P 160120736095	28
53	Sar charan neday i 199120750055	29
54	Ahmed Aqib 160120736075	
55	Aqib Uddin Siddiqui 160120736076	
56	Mohan Rao Sheri 160120736085 Santha Sawanth Maringanti 160120736101	30
57	Mohammed Abdul Shukur 160118736310	31
58	Balagani Keerthi 160120736311	32
59	Sathvika Eearla 160120736068	33
60	Yashwanth Raghavendra Reddy D 160120736112	34
61	11 20120,0012	35
62	AnirudhAkkinepally 1601-20-736-012	
63	Syed MohiUddin 1601-20-736-048 VeeraBhadraGandla 1601-20-736-050	

SNo	Name & Roll Number of the Student	Proof Page Number
64		36
65	RangaPranay Kumar 1601-20-736-301	
66	ChamanthulaRohith 1601-20-736-303 N.Lokesh 1601-20-736-315	
67		37
68	BhargavKasimalla 1601-20-736-016	
69	Kiran Kumar R 1601-20-736-026 SaikrishnaKathroju 1601-20-736-038	
70	34KH3HH4K44H3J4 1001 20 730 030	38
71	NishanthThokala 1601-20-736-032	
72	N.Vineeth Kumar 1601-20-736-054	
73	KencheKarthik 1601-20-736-313	39
74	K.Chandrashekhar 1601-20-736-018	
75	Kari Bharath 1601-20-736-314	
76	MulagiriSaiKiran 1601-20-736-317	40
77	Dhan d Ta's Davis - 4004 20 720 024	40
78	DhanushTejaBera 1601-20-736-021 SaiNarayanaGubba 1601-20-736-037	
79	MushiniNarender 1601-20-736-302	44
80		41
	Hansika Reddy Tadisina 1601-20-736-003 Bharath Pol 1601-20-736-015	
81	Chandrakanth Singh G 1601-20-736-017	
82		42
83	SravyaSanikommu 1601-20-736-008	
84	DivyaTejaMamidipally 1601-20-736-024 YashwanthGuduru 1601-20-736-055	
85	P.ManjunathNayak 1601-20-736-027	43
86		44
87	DhanaNivasMarikukala 1601-20-736-020	
88	DileepDharavath 1601-20-736-023 Manjunath Reddy Muli 1601-20-736-028	
89		45
90	LahariKalangi 1601-20-736-004	
91	SreejaSirpur 1601-20-736-009	
92	Chenna Reddy Gunthapally 1601-20-736-019	46
93	SahithiEamani 1601-20-736-006	70
94	SrihithaMalisetty 1601-20-736- 305	47
95	Sub- 11 A 4504 00 705 011	4/
96	SathwikAnnaladesh 1601-20-736-041 SathwikVakalapudi 1601-20-736-042	
<i></i>	SreeSatwikYarlagadda 1601-20-736-045	

SNo	Name & Roll Number of the Student	Proof Page Number
97	BhargaviPhadke 1601-20-736-002	48
98		49
99	ChepuriAshwini 1601-20-736-304	
100	KuchanaBanusri 1601-20-736-306 NayaniLokesh 1601-19-736-026	
101	AyushiChaturvedi 1601-20-736-001	50
102		51
103	SubbuluYalala 1601-20-736-047	
104	VamshikrishnaGajula 1601-20-736-049 P.V. Ajay Kumar Reddy 1601-20-736-051	
105		52
106	I.V.S SaiSrimanth 1601-20-736-053	
107	B.ManikantaGoud 1601-20-736-316 Vishal Avasthi 1601-20-736-318	
108	MukundBalrajVishwanath 1601-20-736-031	53
109	1001 20-730-031	54
110	K.L. Mithravinda Reddy 1601-20-736-005 Aryan VishwanathPallerla 1601-20-736-014	
111	Aryan vishwanathranena 1001-20-730-014	55
112	Abdul Rahman 1601-20-736-010	
113	Mohammed Furqaan Jamal 1601-20-736-029	56
114	 AbhiramChitturi	
115	PranayKotturi 1601-20-736- 033	
116	RakeshMunshi 1601-20-736- 034	57
117	MokshithPadala 1601-20-736-030	58
118	AnirudhGaddamanugu 1601-20-736-013	30
119	SiddharthKonreddy 1601-20-736-044	
120	S. Venkata Naga Ruthvik 1601-20-736-052	EO
121		59
122	HrishikeshSangam 1601-20-736-025 RithvikAnandGodi 1601-20-736-035	
123	Sripavan N 1601-20-736-046	60
123	SakethPonnam 1601-20-736-039	60
	Samara TejaKondla 1601-20-736-040	
125	Mohammed Shariq 1601-22-765-001	61
126	Shaik Sameer Hussain 1601-22-765-003	62
127	Tanveer Ahmed Khan 1601-22-765-004	63
128	Abrar Ahmed 1601-22-765-005	64
129	Gajam Pavan Ram 1601-22-765-006	65

SNo	Name & Roll Number of the Student	Proof Page Number
130	Sangem Sai Kumar 1601-22-765-008	66
131	Dokku Venkata Sai Praneeth Yadav 1601-22-765-010	67
132	Gugloth Prem Kumar 1601-22-765-011	68
133	Konda Pruthvi Raj 1601-22-765-013	69
134	Devireddy Vikas Reddy 1601-22-765-014	70
135	NADELLA MANOJ 1601-22-745-101	71
136	MOHAMMAD FAIZAN AHMED 1601-22-745-102	72
137	MD ZAIN UL AABEDEEN 1601-22-745-103	73
138	MADA DURGA BHAVANI 1601-22-745-104	74
139	M NAVEEN 1601-22-745-106	75

COMMITTED TO RESEARCH.
INNOVATION AND POUCATION AND YEARS ARCH.
EDUCATION YEARS ARCH.

YEARS ARCH.

YEARS ARCH.

CERTIFICATE

This is certify that the project report entitled Fluid Pressure Penetration analysis on hydraulic scaling system—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 content 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. Girinath Bharathakavi 160120736079
- 2. Karthikp Thumuganti 160120736082

Signature

Dr.G Laxmaiah A

Reddy SOCIATE PROFESSOR

Supervisor institute of Technology (A)

Associate Professor

Mechanical Engineering Dept.

Engineering Dept.

Signature

Dr.P.Prabhakar

1-87

PARECES DEDICATION TO PERSONAL PROPERTY OF THE PROPERTY OF THE

Mechanical

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



COMMITTED TO RESEARCH, INNOVATION AND POLICATION AND YEARS

CERTIFICATE

This is to certify that the project report entitled Design and Analysis of Fixture for the Measurement of Moment of Inertia submitted by T. Sai Samanvith in partial fulfillment for the award of the degree of B. E in Mechanical Engineering is a record of bona fide 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.

T. Sai Samanvith (160120736100)

Dr. Md. Aleem pasha/ Associate Professor

Supervisor

Department of

ASSOCIATION ROFESSOR
Depart Real Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075. Telangana

Date:

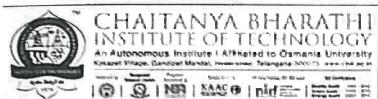
Place: Hydera

of Lighter

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

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

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



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS YEARS AND YEARS

CERTIFICATE

This is to certify that the project report entitled Optimal design of cylindrical shell of a missile inter-stage subjected to axial load 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. V. Aditya

- 160120736074

2. CH. B. Sankar

- 160120736078

3. G. Jashwanth

- 160120736080

- Peni

Dr. D. Ravi

Supervisor

Assistant Professor

Mechanical Engineering Dept.

Dr. P. Prabhakar Reddy

Head of Department

Professor

Mechanical Engineering Dept.

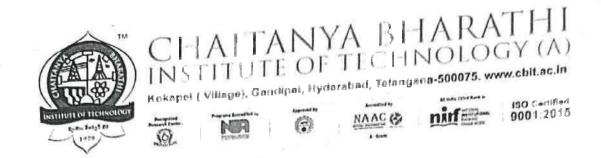
ASSISTANT PROFESSOR

Department of Mechanical Engineering Chaitanya Biserasi to striate of Technology (A) — Gandipet, HYDERABAD-500 015 (T.S.) PROFESSOR & HEAD

Department of Mechanical Engineering maitanya Sharathi Institute of Technology (A) Sandipet, Hyderabad-500 075, Telangana

Rober

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



This is to certify that the project report entitled "DESIGN AND ANALYSIS OF THERMOELECTRIC GENERATOR FOR ENERGY HARVESTING" 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. B. Phanitha

(160120736066)

2. D. Koushik

(160120736083)

3. D. Manideep

(160120736084)

Dr. Ch. Indira Priyadarshini

Ass. Professor

ASSISTATION, MEDFESSOR
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Date :

Place: Hyderabad

Dr. P. Prabhakar Reddy

Professor & Head

MED

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

Bolson

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



COMMITTED TO 45

CERTIFICATE

This is to certify that the project report entitled DESIGN AND ANALYSIS OF DUAL CALIPER DISC BRAKING SYSTEM OF A TWO-WHEELER 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. ALLAGADDA NAGAVISHNU - 160120736089

2. KUMMARA PRANEETH RAM - 160120736091

3. RISHAB ERRAMILLI - 160120736093

Dr. G. Eaxmarah R Department of Mechanical Engineering Chaffanja Bharati Institute of Technology (A) . Gandioet, HYDERABAD-500 075 (T.S.) Professor

Mechanical Engineering Dept.

ASSOCIATE PROFESSOR & HEAD
Department of Mechanical Engineering
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Dr. P. Prabhakar Reddy

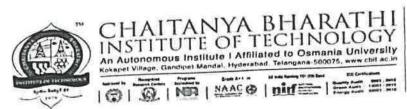
Head of Department

Professor

Mechanical Engineering Dept.

PROFESSOR & HEAD

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



COMMITTED TO RESEARCH. INNOVATION AND EDUCATION CONTROL OF THE PROPERTY OF THE

CERTIFICATE

This is to certify that the project report entitled "Performance evaluation of Soyabean Oil as Working Fluid in Corrugated Plate Heat Exchanger" 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. Gouri Nagaraju

(160120736087)

2. Mankala Shashi Kiran

(160120736103)

Kalyaboini Vamshi Kumar

(160120736108)

Dr. Y. S. Kannan Assistant Professor

ASYNSYASOT PROFESSOR

Department of Mechanical Engineering Chaitanya Bharati Institute of Technology (A) Sandiget, HYDENABAD-500 075 (T.S.)

Date: 29/04/2024

Place: Hyderabad

DP.POTABLEAR ReddyAD

Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandiet, Hyderabad-500 0/5. Telangana
Engineering

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





This is to certify that the project report entitled "DESIGN, ANALYSIS DRILL JIG PRINTED 3DFABRICATION OF AND AXISYMMETRIC HOLLOW PARTS " 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.

> M. SREENIJA (1601-20-736-071) 2. D. SRICHANDANA (1601-20-736-072)

Dr. B.V.S Rao

Assistant Professor

Supervisor

ASSISTANT PROFESSOR

Department of Mechanical Engineering Chaitanya Bharati Institute of Technology (A)

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Date: 2-05-2024

Place: Hyderabad

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

PROFESSOR & HEAD

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

Chaitanya Bharathi Institute of Technology (A) Gandipet, Hyderabad-500 075. Telangana.

Gandipet, Hyderabad-500 075. Telangana.



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the project report entitled Effect of Raster Orientation on the Mechanical Properties of 3D Printed Components 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.

Shaik Nausheen Firdouz (160120736069)

Dr. G Laxmaiah

Department of Mechanical Engineering Charleman guide Charleman Brandi Institute of Technology (A)

Gandipet, HYDERABAR-500 075 (L.S.)

Dr. Amol V Assissiant Professor, External guide PROPESSOR & HEAD

Dr. P Prablicator Rechanical Engineering

Professor & Fleath Institute of Technology (A)

Departitient of Medianical Francial F

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

Date: 29/04/2024

Place: Hyderabad



COMMITTED TO RESEARCH.
INNOVATION AND EDUCATION

YEAR

CERTIFICATE

This is to certify that the project report entitled "INVESTIGATE THE STRUCTURAL BEHAVIOUR AND REDUCING DISTORTION FAILURE IN AUTOMOTIVE VALVE SPRING" is the bonafide work carried out by the following students of B.E in Mechanical Engineering of Chaitanya Bharathi Institute of Technology (A), Hyderabad, affiliated to Osmania University, Hyderabad, Telangana(India) during the academic year 2023-2024, 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 similar title.

V V SAI CHANDRA - 160120736109

VIGNESH SURYADEVARA "- 160120736111

Dr. P Prabhakar Reddy
PROLESCOR & HEAD
PAGINGS OR BETTER
PART OF MECHANICAL Engineering
Paitanya Bharaini Institute of Technology (A)
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Date:

Place: Hyderabad

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



This is to certify that the thesis entitled "TESTING AND ANALYSIS OF COBALT-CHROMIUM ALLOY FOR DENTAL APPLICATION" 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.

> BHUKYA SAGAR BANOTH KALYAN

160119736307

160119736308

Dr. P. PRABHAKAR REDDY

Supervisor

Mechanical Engineering Department

Dr. P. PRABHA

Professor & Head of Department Mechanical Engineering Department

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

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Department of Mechanical Engine Bindlipet, Hyderabad-500 075. Telangana

Chaitanya Bharathi Institute of Technology (A) Gandipet, Hyderabad-500 075. Telangana.



This is to certify that the project report entitles "DESIGN AND FABRICATION OF MULTI PURPOSE AGRICULTURE 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 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.

Names		Roll Numbers:
1) BONGARALA ARYA BHATTA CHARAN	-	160120736077
2) JAKKULA SANTHOSH	-	160120736102
3) PUTTA VENU	_	160120736110

Assistant Professor

Supervisor

ASSISTANT PROFESSOR

Department of Mechanical Engineering Chaitanya Bharati Institute of Technology (A) Gandipet, HYDERABAD-500 015 (T.S.)

Professor & Head Department of Mechanical Engineering

Dr P. PRAB**ahakár re**ddy

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ASSOCIATE PROFESSOR & HEAD
ASS ASSOCIATE PROFESSOR & HEAD Department of Mechanical Engineering Chaitanya Bharathi Institute of Technology (A)

Department of Mechanical Engineering (Mandipet, Hyderabad-500 075, Telangana)

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Department of Mechanical Engineering (Mandipet, Hyderabad-500 075, Telangana) ASSOCIATE PROFESSOR Engineering Chaltanya Bharathi Institute of Technology (A)
Department of Mechanical Engineering Chaltanya Bharathi Institute of Technology (A)
Cha

Date: 30-04-2024

Place: Hyderabad

Charlanya Bharathi Institute of Technology (**NSA** Gandipet, Hyderabad-500 075, Telangana.



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the project report entitled "Fabrication of Thermoelectric Refrigeration for Cold Storage" 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 carriedout 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.

NAMES	-	ROLL NO:
THOTA SHIVA		160120736309
BINGI UDAY KIRAN	-	160120736310
MALOTH MAHESHWARI	-	160120736312

Dr. L. Suresh Kumar Assistant Professor Supervisor

ASSISTANT PROFESSOR
Department of Mechanical Engineering
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Date:

Place: Hyderabad

Rockynn

Dr. P Prabhaker Reddy Professor & Head Department of Mechanical

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

ASSOCIATE PROFESSOR & HEAD

Department of Mechanical Engineering

Chaitanya Bharathi Institute of Technology (A)

Chaitanya Bharathi Institute of Technology

Chaitanya Bharathi Institute of Technolo



RESEARCH, INNOVATION AND EDUCATION

CERTIFICATE

This is to certify that the project report entitled Experimental Investigation on Weldability and Optimizing the Process Parameters of Polypropylene for Friction stir welding 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. Afreen Begum (160120736061)
- 2. Sirigari Divya (160120736062)
- 3. Aruri Pranay Kumar (160120736090)

Signature V. Jaipar ReddyT PROFESSOR Dassistanti Professonnical Engineering (Supervisocrali Institute of Technology (A) Départiment of Méchanica 015 (T.S.)

Engineering

Date:

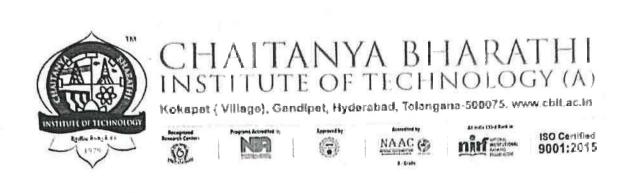
Place: Hyderabad

Signature

Department of Mechanical Engineering Professionarath Institute of Jechnology (A) Department of Mechanical Engineering Department of Mechanical Engineering

Engineering

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



This is to certify that the project report entitled "Fabrication of Areca nut natural fiber reinforced composite for Acoustic comforts" 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.

(160120736067) 1. P. Satatha

2. B. Sravan Kumar (1601020736104)

3. D. Sri Harsha

(160120736105)

Dr. Kiran kumar Amireddy

Assistant Professor

ASSISTANT PROFESSOR Department of Mechanical Engineering

Chaitanya Bharati Institute of Technology (A)

GAPARATA, HYBERADOR-50005(ILS.)

Place: Hyderabad

Dr. Prabhakar Réddy

Professor & Head

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

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



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the project report entitled BLUETOOTH – CONTROLLED PICK AND PLACE ROBOTIC ARM submitted by the following members in partial fulfillment for the award of the degree of B. E in Mechanical Engineering is a Bonafede 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.

Mohammed Shaguftha (160120736063) Abhiram Reddy (160120736073)

> Assistant Professor, Supervisor Department of Mechanical

wi Dent

ASSISTARBIN PRIOR ESSOR

Department of Mechanical Engineering Chaitanya Bharati Institute of Technology (A) Gandipet, HYDERABAD-500 015 (T.S.)

Date: 2 5 2024

Place: Hyderabad

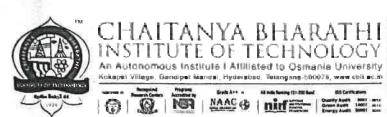
Dr. P Prabhaker Reddy

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

PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)

ASSOCIATE PROFESSOR & HEAD

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



COMMITTED TO RESEARCH. INNOVATION AND EDUCATION

CERTIFICATE

This is to certify that the project report entitles "PERFORMANCE ANALYSIS OF SOLAR FLAT PLATE COLLECTOR AT DIFFERENT RADIATION LEVELS AND WIND SPEEDS" 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.

NAMES		ROLL NO:
THATIPAMULA PUNNAM CHANDER	_	160120736092
AKUTHOTA RUTHVIK DEV	-	160120736094
REGU SAI KIRAN		160120736097

Dr. R.P. CHOWDARY

Associate Professor

Supervisor ASSOCIATE PROFESSOR

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

Date: 30-04-2024

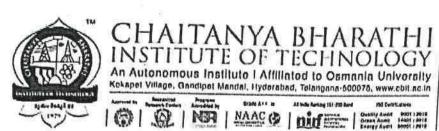
Place: Hyderabad

Dr. P. Prabhakar Reddy

Professor & Head Department of Mechanical Engineering

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

ASSOCIATE PROFESSOR & HE Department of Mechanical Engineering Chaitanya Bharathi Institute of Technology Candipel, Hyderabad-500 075, Telandan



RESEARCH, VATION AND EDUCATION

CERTIFICATE

This is certify that the project report entitled VIBRATION ATTENUATION OF AN AEROSPACE COMPONET INTEGRATED PRINTED WITH 3D STRUCTURE 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 content 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. K. SALKIRAN

160120736096

2. B. SURESH

160120736106

3. NAGA SAI SRI PRANAV SAGAR - 160120736086

Sri. A. Chandrakanth Assistant Professor Supervisor Department of Mechanical Engineering:

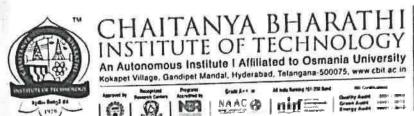
tany Professor Mut Gadennology (A)

odipeDepartment@forMethamical

Engineering

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

sample sheet 2



COMMITTED TO

CERTIFICATE

entitled the project report certify that This CHARACTERIZATION OF A SPOTWELDING PROCESS FOR JOINING MATERIALS OF DIFFERENT THICKNESS 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.

- 1. MOUNIKA (160120736064)
- 2. NIKHITHA (160120736065)

ASSISTANT PROFESSOR

Dr. P Prabhaker Reddy Professor & Head, Department of Mechanical

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

> Date: 02/05/2024 Place: Hyderabad

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

ASSOCIATE PROFESSOR & HE Department of Mechanical Engineering Chaitanya Bharathi Institute of Technology (A) Chananya bharam msmute or nacimology (A).
Gandipet, Hyderabad-500 075, Telangana.



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION AND YEARS

CERTIFICATE

This is certify that the project report entitled NUMERICAL STUDY ON VARIATION OF NATURAL FREQUENCY AND FREQUENCY RESPONSE WITH VOLTAGE EXCITED PIEZO AT DIFFERENT LOCATIONS ON PLATE 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 content 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 ARNAV GUMMADI - 16

- 160120736081

2. NAGA SATHWIK KASULA

- 160120736088

3. SAI KOUSHIK CHINTAPANDU

- 160120736098

Signature

Sri. K. Gurubrahmam

Assistant Professor

Supervisor

Department of Mechanical

Engineering

Signature
Signature
Fixed at Jechanical Engineering
Fixed at J

Department of Mechanical

Engineering

ASSOCIATE PROFESSOR & HEAD

ASSOCIATE PROFESSOR & HEAD

Of Mechanical Engineering

Of Technology (A)

Openartment of Mechanical Engineering

Openartment of Mechanical Enginee



RESEARCH, INNOVATION AND EDUCATION

CERTIFICATE

This is to certify that the project report entitled "EXPERIMENTAL POLYMER LAYERED COMPOSITES INVESTIGATIONS MADE BY DUAL EXTRUSION 3D PRINTING." 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.

Narisetti Jyothi Jagadish

(160120736320)

2. Thipparthi Sumanth

(160120736319)

3. Goli Charan Sai

(160120736321)

Assistant Professor OFESSOR Department of Mechanical Engineering

Chaitanya Bharati Institute of Technology (A)

Gandipet, HYDERABAD-500 015 (T.S.)

Date:

Place: Hyderabad

Dr. P Prabhakar Reddy

Professor & Head.

Department of

Mechanical Engineering

ASSOCIATE PROFESSOR & HEAD ASSOCIATE PROFESSOR & Technology (A)

ASSOCIATE PROFESSOR Technology (A)

ASSOCIATE PROFESSOR Technology (A)

Associated to Mechanical Engineering Engineering

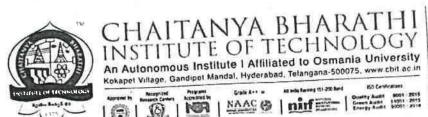
ASSOCIATE PROFESSOR & HE chaitanya Bharathi Institute of Technology (A)

ASSOCIATE PROFESSOR & HE chaitanya Bharathi Institute of Technology (A)

Department of Mechanical Enginee Sandipet, Hyderabad-500 075. Telangana

Department of Mechanical Technology

Department of Mechanical Solo 075. Telangana Challanya Bharathi Institute of Technology Janaianya sharami institute or technology (AM) Gandipet, Hyderabad-500 075, Telangana



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the project report entitled "Cyclic Analysis and Numerical Investigations on Development of Scramjet Engine and its impact on Thrust Maximization" 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 orUniversity for the award of any degree.

1. Neelam Sai Sabareesh Reddy (160120736099)

Dr. Dr. Rama Lakshmi

Asst.Professor Supervisor

ASSISTANT PROFESSOR

Department of Mechanical Engineering

Chaitanya Bharati Institute of Technology (A)

Gandipet 013/05/202500 015 (T.S.

Place: Hyderabad

ASSOCIATE PROFESSOR & HEAD

AS

Dr. P Prabhaker 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 RESEARCH. ADMA MOITAV EDUCATION vears

CERTIFICATE

This is to certify that the project report entitled " Integration of Epicyclic gear into Strain wave gear for enhanced efficiency, reduced friction " is the bona fide work carried out by the following students of B.E in Mechanical Engineering of Chaitanya Bharathi Institute of Technology (A), Hyderabad, affiliated to Osmania University, Hyderabad, Telangana(India) during the academic year 2023-2024, 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 similar title.

> P SAI CHARAN REDDY -1601207360095

Azurtash Salm Dr. ASHUTOSH SAHU

Guide

Professor

Mechanical Engineering Department

Date: 30-04-2024

Place: Hyderabad

ASSISTANT PROFESSOR Department of Mechanical Engineering Chaitanya Bharati Institute of Technology (A) Gandipet, HYDERABAD-500 015 (T.S.)

DR. PRABHAKAR REDDY

Head of Department

Professor

Mechanical Engineering Department

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

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



COMMITTED TO PESSEARCH, INNOVATION AND COUCATION YEAR

CERTIFICATE

This is to certify that the Project Report entitled "HEAT FLOW ANALYSIS OF CORRUGATED PLATE HEAT EXCHANGER USING NANOFLUID" 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 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.

AHMED AQIB AQIB UDDIN SIDDIQUI SHERI MOHAN RAO 1601-20-736-075 1601-20-736-076 1601-20-736-085

SmtARSNST ANT PROFESSOR

SmtARSNST ANT PROFESSOR

Supervisor Charati Institute of Technology (A)

Supervisor Charati Institute of Technology (A)

LuyDERABAD-500 015 (T.S.)

Assistant Professor

Mechanical Engineering Dept.

ASSOCIATE PROFESSOR & HEAD

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Department of Machanical Engineering
Department of Machanical Engineering
Department of Technology (A)
Mechanical Engineering Dept.



This is to certify that the thesis entitled "Measurement of Visco-elastic properties in Auxetic Materials" in partial fulfillment for the award of the degree of B.E. in Mechanical Engineering is a Bonafide record of 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. Maringanti Santha Sawanth (160120736101)

Dr. K. Kishor Ologic

Associate Professor

ASSUPERVISOR ROFESSOR
Department of Mechanical Engineering
Chaitanya Bharati Institute of Technology (A)
Ganding SUPPERMAN (300 075 (T.S.)

Dr. Aritra Chatterjee

Professor

External Guide

Date:

Place: Hyderabad.

Dr. P. Prabhakar Reddy

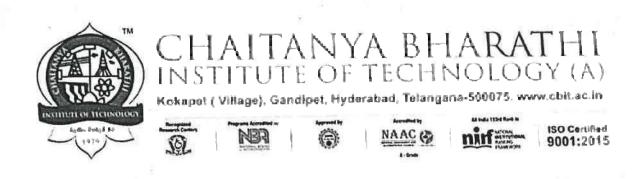
Professor & Flead,

Department of Mechanical

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

ASSOCIATE PROFESSOR & HEAD

AS



This is to certify that the project report entitled Design of Solar Distillation Apparatus 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.

Mohammed Abdul Shukur (160118736310)

Dr. K. Kishor

Associate Professor

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

Date: 02/05/2024

Place: Hyderabad

Dr. P Prabhaker Reddy

Professor & Head,

Department

Mechanical

E. P.R.OFESSOR & HEAD Department of Mechanical Engineering Chaitanya Bharathi institute of Technology (A) Gandlpet, Hyderabad-500 075. Telangana

of

ASSOCIATE PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Chaitanya Bharathi Institute of Technology



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION VEGOS

CERTIFICATE

This is to certify that the project report entitled CFD SIMULATION OF CAPILLARY RISE OF LIQUID IN CONTAINER 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.

Keerthi Balagani (1601-20-736-311)

Mrs P. Anjani Devi

Assistant Professor, Supervisor Department of Mechanical

Engineering ASSISTANT PROFESSOR

Department of Mechanical Engineering Chaltanya Bharati Institute of Technology (A)

Gandipol, HYDERABAD-500 015 (T.S.)

Prof. K. Supradeepan

Associate Professor, Supervisor (BITS Pilani Hyderabad)

Date: 8 -5-24

Place: Hyderabad

Dr. P Prabhaker Reddy
Professor & Head.
Department of Mechanical
Engineering

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

ASSOCIATE PROFESSOR & HEAD

ASSOCIATE PROFESSOR & HEAD

Department of Mechanical Engineering

The profession of Technology (A)

Chailanya Bharathi Institute of Technology

Chailanya Bharathi Institu



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION years

CERTIFICATE

This is to certify that the project report entitled CLASSIFICATION OF TOOL FAULTS: USING AI AND MACHINE LEARNING METHODS 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.

SATHVIKA (160120736068)

Assistant Professor

Internal Guide ASSISTANT PROFESSOR

Department of Mechanical Engineering Chailanya Bharati Institute of Technology (A) Gandipet, HYDERABAD-500 075 (T.S.)

Dr. Amritha Priyadarshini

Associate Professor, BITS Pilani Hyd

External Guide

Dr. P Prabhaker Reddy Professor & Head

Department of mechanical Engineering

PROFESSOR & HEAD Department of Mechanical Engineering

Chaitanya Bharathi Institute of Technology (A) Gandipet, Hyderabad 500 075. Telangana

Dr. Sabareesh Geetha Rajasekharan

Associate Professor, BITS - Pilani Hyd External Guide

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

Date: 02/05/2024

Place: Hyderabad



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the project report entitled DESIGN AND FABRICATION OF "YZ" STAGE FOR DEMAND ACQUISITION OF MAGNETIC FIELD submitted by the following member 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.

D YASHWANTH RAGHAVENDRA REDDY

OFESSOR & HEAD ant of Mechanical Engineering Duralh Problem (A) dydorabad-5080 [fertelsogana

Professor & Head, Department of Mechanical Engineering

Date:

Place: Hyderabad

ASSOCIATE PROFESSOR & HEAD

ASSOCIATE PROFESSOR & HEAD

Department of Mechanical Engineering

Chaitarya Bharathi Institute of Technology (A)

Chaitarya Bharathi Institute of



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the project report entitled DESIGN AND DEVELOPMENT OF AN AMPHIBIOUS DRONE USING 3D PRINTING 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. ANIRUDH AKKINEPALLY - 160120736012

2. SYED MOHI UDDIN - 160120736048

GANDLA VEERA BHADRA - 160120736050

ASSISTANT PROFESSOR

Department of Mechanical Engineering

Chaltanya Bhara Supërvis 6 Fechnology (A)

Gandipet, HYDERABAD-500 015 (I.S.)

Assistant Professor

Dr. P. Preblaka Boddy HEAD

Head Partner of Mechanical Engineering

Head Partner of Mechanical Engineering

Professor of Departmentality of Technology (A)

Professor of the Professor of Technology (A)

Mechanical Engineering Dept.

Mechanical Engineering Dept.

ASSOCIATE PROFESSOR & HEAD
Department of Mechanical Engineering
Dept.

ASSOCIATE PROFESSOR & HEAD
Department of Mechanical Engineering
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Department of Mechanical
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СОММПТЕО ТО RESEARCH INNOVATION AND EDUCATION

CERTIFICATE

This is to certify that the thesis entitled "STUDIES ON EFFECT OF INCIDENCE OF RADIATION FOR A SOLAR FLAT PLATE COLLECTOR" 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.

RANGA PRANAY KUMAR CHAMANTHULA ROHITH

NARAYANADASU LOKESH

160120736301

160120736303

160120736315

Associate Professible of Technology (A)
Gandipel, Hyderabad-910 075. Telangana Supervisor

Mechanical Engineering Dept.

DPROPRABBIAKARAREDDY partment of Mechanical Engineering Professorianditute of Technology (A) ndinet, Hyderabad-500 075. Telangana Head of Department

Mechanical Engineering Dept.

ASSOCIATE PROFESSOR & HEAD Department of Mechanical Engineering

Chaitanya Bharathi Institute of Technology (A) Gandipet, Hyderabad-500 075. Telangana.

Date:

Place: Hyderabad



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION AND VOORS

CERTIFICATE

This is certify that the project report entitled REDUCTION OF EMISSIONS IN A 4 STROKE SINGLE CYLINDER DUESEL ENGINE USING BLENDS OF COTTON SEED OIL AND DIESEL OIL WITH UNCONVENTIONAL CATALTIC CONVERTER 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 content 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. BHARGAV KASIMALLA
- 2. KIRAN KUMAR R
- 3. SAI KRISHNA KATHROJU
- 160120736016
- 160120736026
- 160120736038

Signature

Dr. K. Kishor

Associate Professor

Supervisor

Department of Mechanical

Engineering

Signature & FEAD

n of Mechanical Engineering
Drapilisting Sechnology (A)

poet, pydetabad-500 p/5. Telangana
Professor & Head

Department of Mechanical Engineering

ASSOCIATE PROFESSOR & HEAD

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



This is to certify that the project report entitled Design and Fabrication of 3D Printing Filament Extruder 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 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. Nishanth Thokala (160120736032)
- 2. Nagapuri Vineeth Kumar (160120736054)
- 3. Kenche Karthik (160120736313)

Dr.R.P. Chowdary.

Associate Professor

Mechanical Engineering Dept

Supervisor

ASSOCIATE PROFESSOR

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

Date:

Place: Hyderabad

Dr. P Prabhaker Reddy

Professor & Head.

Department of Mechanical

Engineering

PROFESSOR & HEAD

Department of Mechanical Engineering Chaitanya Bharathi Institute of Technology (A)

Gandipet, Hyderabad-500 075, Telangana

ASSOCIATE PROFESSOR & HEAD Department of Mechanical Engineering

Chaitanya Bharathi Institute of Technology (A) Gandipet, Hyderabad-500 075, Telangana.



This is to certify that the thesis entitled "DESIGN, DEVELOPMENT AND PERFORMANCE EVALUATION OF HYDROGEN POWERED INTERNAL COMBUSTION ENGINE" 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. KAMMARI CHANDRASHEKAR

(160120736018)

2. KARI BHARATH

(160120736314)

3. MULAGIRI SAI KIRAN

(160120736317)

Signature

Dr.P.V.R. Ravindra Reddy

(Director-Student

Affairs and Progression)

PROFESSOR

Department of Mechanical Engineering

Charles ya Bharati Ingirtura si Technology (Al

Gandhoal HYDERABAD-500 075 [T.S.]

Signature

Dr. P Prabhakar Reddy

Professor & Head.

Department of

MechanicalEngineering

PROFESSOR & HEAD

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

ASSOCIATE PROFESSOR & HEAT Department of Mechanical Engineering Chailanya sharathi Institute of Technology (A. Gandipet, Hyderabad-500 075. Telangana.

sample sheet 2



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION

CERTIFICATE

This is to certify that the project report entitled PERFORMANCE ANALYSIS OF CI ENGINE USING BIODIESEL FROM PONGAMIA PINNATA 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. BERA DHANUSH TEJA (160120736021)
- 2. GUBBA SAI NARAYANA (160120736037)
- 3. MUSHINI NARENDER (160120736302)

Signature

Dr.S. Narasimha Kumar

Asst.Professor

Supervisor

ASSISTANT PROFESSOR

Department of Mechanical Engineering

Chaitanya Bharati Institute of Technology (A)

Candipet, HYDERABAD-500 015 (T.S.)

Signature

Dr. P Prabhakar Reddy

Professor & Head.

Department of Mechanical

Engineering

PROFESSOR & HEAD

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



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the thesis entitled "PERFORMANCE ENHANCEMENT IN COLD STORAGE SYSTEM USING FORECAST, AUTOMATION AND STACKING" 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 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.

HANSIKA REDDY

- 160120736003

BHARATH POL

- 160120736015

G. CHANDRAKANTH SINGH - 160120736017

Dr. S. Solmon Raj Co & dinato

Associate Profession Associate Professor

Epartment of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Supervisor Hyderabad-500 075. Telangana

Mechanical Engineering Department

Date:

Place: Hyderabad

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

Engineering

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



COMMITTED TO PESEARCH, INNOVATION AND EDUCATION YEARS YEARS

CERTIFICATE

This is to certify that the project report entitled Design and Fabrication of Ball and Socket Joint using 3D Printing Technology 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. Sanikommu Sravya (1601-20-736-008)
- Mamidipally Divya Teja (1601-20-736-024).
- 3. Guduru Yashwanth (1601-20-736-055)

Dr. PVR Ravindra Reddy Professor, Supervisor Department of Mechanical Engineering

PROFESSOR

Department of Mechanical Engineering
Chaitanya Bharati Institute of Technology (A)
Date: Gandipet, HYDERABAD-500 075 (T.S.)

Place: Hyderabad

Dr. P Prabhaker Reddy
Professor & Head.
Department of Mechanical
Engineering

PROFESSOR & HEAD
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Chaltanya Bharathi institute of Technology (A)
Gandipet, Hyderabad-500 075. Telangana

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COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the project report entitled Design and Analysis of an Electric Bike equipped with an Axial Flux motor 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.

1. Prasannaganapati Manjunath Nayak (1601-20-736-027)

Dr. C. Calaman Brica

ASSOCIATEOPROFESSIOR
PASSOCIATEOPRESIOR
PASSOCIATEOPRESION
PASSOCIATEO

Date: 29th April 2024

Place: Hyderabad

PROFESSOR AFEAD

Professor And Rador Technology (A)
anuiphepartment-600 075. Telangana
Mechanical Engineering

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RESEARCH, EDUCATION years

CERTIFICATE

This is to certify that the project report entitled DRONE SURVEILLANCE USING IMAGE PROCESSING 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.

- EM.DHANANIVAS(160120736020)
- 2. DHARAVATH DILEEP (160120736023)
- MULI MANJUNATH REDDY (16012073028)

Dr. Venkata Sushma Chinta

Asst.Professor

Supervisor

Date: 01-05-2024 Place: Hyderabad Signature

Dr. P Prabhakar Reddy

Professor & Head,

Chaitanya

Chaitanya Chaita

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





This is to certify that the thesis entitled "EXPERIMENTAL INVESTIGATION" ON SURFACE PROPERTIES ON MICKEL CHROMIUM LABER CLADDED MILD STEEL" 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 part-2 carried out under my supervision. The consents of this report in full or in parts, have not been submitted to any other fluxination or University for the award of any degree.

Lahari Kalangi

- 160121736145

SREEJA SIRPUR

- 160021C36009

G. CHENNA REDDY

- 160121736109

Supervisor)

Dr. MD. ALEEM PASHA

Annecate Profesion ASSOCIATE PROFESSOR Desempatates et Medialleta (intredis Castanja eta eta Institutus estesios) (in Plac**handigos** alcassas 201, 175 "e estesia

Gardon, Elicenside de de de la Seconda de la

Dr. P. Prantakar Renov

Professor & Hear.

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PROFESSOR & HEAD
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COMMITTED TO RESEARCH. INNOVATION AND EDUCATION VEGES

CERTIFICATE

This is to certify that the project report entitled Material Optimization and Waste Reduction of LEONARDO, a fusion of Robot & Drone 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 Project, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

- 1. Eamani Sahithi (160120736006)
- 2. Srihitha Malisetty(160120736305)

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ASSOCIATE PROFESSOR & HEAD
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Chaitanya Bharathi Institute of Technology
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COMMITTED TO RESEARCH.
INNOVATION AND EDUCATION
YEAR

CERTIFICATE

This is to certify that the thesis entitled "OPTIMIZATION OF BISCUIT DOUGH MATERIAL USING IOT IN PRODUCTION LINE" by the following members in partial fulfillment 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. ANNALDESH SATHWIK

160120736041

2. VAKALAPUDI SATHWIK

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3.SREE SATWIK YARLAGADDA

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Dr. N.V SRINIVASULUS HAVOY

Professor

Mechanical Ængineergingelingst. Chaitenya Bharati Institute of Technology (A) Gandipet, HYDERABAD-500 075 (T.S.) Dr. P. PRABHAKAR REDDY

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Gandipet, Hyderabad-500 075, Telangana.



RESEARCH. **EDUCATION**

CERTIFICATE

This is to certify that the project report entitled Simulation of laser spot welding submitted by the following member 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.

Bhargavi Phadke (160120736002)

Professor, Supervisor

Department of

Mechanical Engineering

Place: Hyderabad

Date: 30.04.9024

Conduct Hyperian a ten ensit.S.

Dr. P Prabhakar Redd Professor & Head Department of

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PROFESSOR & HEAD Department of Mechanical Engineering Chaitanya Bharathi Institute of Technology (A)

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COMMITTED TO INNOVATION AND EDUCATION

CERTIFICATE

This is to certify that the thesis entitled "DESIGN AND FABRICATION OF CATALYTIC CONVERTER" 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 orin parts, have not been submitted to any other Institution or University for the award of any degree.

CHEPURI ASHWINI

160120736304

KUCHANA BANUSRI

160120736306

NAYANI LOKESH

160119736026

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COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the project report entitled Parametric Optimization and Redesigning of a Linear Force Motor 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.

Ayushi Chaturvedi (1601-20-736-001)

Dr.P. Ravinder Reddy Professor, Supervisor

Department of Mechanical Department Engineering gineering Chails non Bharati Institute of Technology (A) Gandinet, HYDERABAD-500 075 (T.S.)

Date:01.05.2024.

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sample sheet 2



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION VEOUS

CERTIFICATE

This is to certify that the project report entitled DESIGN AND ANALYSIS OF FEED CHECK VALVE 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. YALALA SUBBULU (160120736047)
- 2. GAJULA VAMSHI KRISHNA (160120736049)
- 3. PULI AJAY REDDY (160120736051)

4. Nosgi Wi 2024. Signature 30/4/2024.

Dr. Y. Nagini
Assf. Professor, ANT PROFESSOR
Supervisionaritment of Mechanical Engineering
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Signature

Dr. P Prabhakar Reddy

Professor & HEAD
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> ASSOCIATE PROFESSOR & HEAD Department of Mechanical Engineering

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COMMITTED TO RESEARCH, INNOVATION AND EDUCATION

CERTIFICATE

This is to certify that the thesis entitled "DESIGN AND FABRICATION OF AUTOMATED UREA DISTRIBUTION USING ROVER" 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.

I.V.S.S. SRIMANTH

160120736053

BURRA MANIKANTA GOUD

160120736316

VISHAL AWASTHI

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Mr. P. RADHA KRISHNA PRASM 1989 (A)
Project guide Gandinet, WYDERABAD-500 015 II S.)

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sample sheet 2



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the thesis entitled "Review and Design of Hydrodynamically Actuated Underwater Robot" 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 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. MUKUND BALRAJ VISHWANATH - 160120736031

Mr. T.N. Aditya
Assistant Professor
ASSISUpervisoROFESSOR
Department of Mechanical Engineering

Department of Mechanical Engineering Chaitanya Bhacati Institute of Technology (A) Gandipet, HYDERABAD-500 015 (T.S.)

Date: 29 April 2024

Place: Hyderabad

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

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COMMITTED TO RESEARCH. INNOVATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the thesis entitled "DESIGN, FABRICATION AND DEMONSTRATION OF SPRINGLESS CAR SUSPENSION USING BEVEL GEARS" 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.

K L MITHRAVINDA REDDY – 160120736005 ARYAN VISHWANATH P – 160120736014

P. Mison Kussel

Dr. P. KIRAN KUMAR

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Mechanical Engineering Dept.

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Dr. P. PRABHAKAR REDDY HOD,

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(Rudus

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



This is to certify that the project report entitled "Design and Analysis of Electric Hikes for Commercial Use" submitted by the following members in partial fulfillment for the award of the degree of B.E. in Mechanical Engineering is a bons fide 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.

I. ABDUL RAHMAN

1601-20-736-010

2. MOHAMMED FURQAAN JAMAL - 1601-20-736-029

R. Navancetha

Project Guide

Assistant Professor

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Place: Hyderabad

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SSOCIATE PROFESSOR & HEAD artment of Mechanical Engineering

"ya Bharathi Institute of Technology (A) Hyderabad-500 075, Telangana.



This is to certify that the thesis entitled "EXPERIMENTAL INVESTIGATION ON A 4-STROKE DIESEL ENGINE TO REDUCE EMISSIONS USING MAGNETIC INDUCTION METHOD AND ALTERNATIVE FUEL -PLASTIC OIL" 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 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.

1. CHITTURI ABHIRAM

160120736011

2. PRANAY KOTTURI

160120736033

3. MUNSHI RAKESH

160120736034

D. S. Madhuri

Project Guide

Assistant Professor

Mechanical Engineering Dept.

ASSISTANT PROFESSOR

Department of Mechanical Engineering

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Garden and Technology (A)

Rober

Dr. P. Prabhakar Reddy

H.O.D

Professor

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



COMMITTED TO RESEARCH. INNOVATION AND EDUCATION YOUR YOUR STATES

CERTIFICATE

This is to certify that the project report entitled SYNTHESIS OF HONING MEDIA COMPOSITION FOR ABRASIVE FLOW MACHINING 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. Padala Mokshith (1601-20-736-030)

Mr. P Surender Reddy OR Assistant Professor, Supervisoria

Dep Department of Mechanically (A)
Chaitanya Bh Engineering Lecture (I.S.)
Gandipal, HYDERABAD-200 015 (I.S.)

O VEV.

Drp Rophysico Reddy IEAD

Dep Atology of Medical Engineering

Deptartment of Medical Engineering

Gandipe Engineering 500 075. Telangana

Date:

Place: Hyderabad

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



COMMITTED TO RESEARCH. INNOVATION AND EDUCATION AND VEGIS

CERTIFICATE

This is to certify that the thesis entitled" GENERATION OF ELECTRICITY FROM BURNING OF TRASH USING PELTIER PLATES" 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.

1.ANIRUDH GADDAMANUGU - 160120736013

2.SIDDHARTH KONREDDY

- 160120736044

3.S.V.N. RUTHVIK

- 160120736052

Dr. HARI KRISHAN YADAV

Project Guide TANT PROFESSOR

Mechanical Engineering Departmenting
thatlas ya Bharati Institute of Technology (A)

Date: 01 05 2024.

Place: Hyderabad

Dr. P. Prabhakar Reddy

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COMMITTED TO RESEARCH NNOVATION AND EDUCATION YEARS YEARS A YE

CERTIFICATE

This is to certify that the project report entitled DESIGN AND FABRICATION OF SEMI – AUTONOMOUS WIRELESS GESTURE CONTROLLED WHEELED ROBOT 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.

- HRISHIKESH SANGAM (160120736025)
- GODI RITHVIK ANAND (160120736035)
- 3. N SRIPAVAN (160120736046)

Shri, Chintireddy Sharath Reddy? [Assistant Professor nical Engineering Supervisor HYDERABAD-500 075 (T.S.)

Date: 29/ 04/ 2024

Place: Hyderabad

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Chaitanya Bharathi Institute of Technology
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COMMITTED TO PESSEARCH PRINCIPATION AND EDUCATION YEARS

CERTIFICATE

This is to certify that the thesis entitled "IDENTIFICATION OF DEFECTIVE CASTING PRODUCTS BY USING CNN" 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.

SAKETH PONNAM -

160120736039

SAMARA TEJA KONDLA -

160120736040

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Dr Rahul

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Dr. P. PRABHAKAR REDDY

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Mechanical Engineering Dept.

ASSISTANT PROFESSOR

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Department of Mechanical Engineering CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)

(Affiliated to Osmania University, Hyderabad) Gandipet, Hyderabad-500075



CERTIFICATE

This is to certify that the Dissertation entitled "Design of Electromagnetic Auto Shifting Scrapper" was submitted by MOHAMMED SHARIQ, bearing Roll No. 1601-22-765-001 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 2022-2024 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.

Supervisor

Gandipet, HYDERABAD-500 015 (7.5.)

ASSOCIATE PROFESSOR & HEAD

Head of Department

Department of Mechanical Engineering epartment of Mechanical Engineering

Chaltanva Bharati Institute of Technology (A)

Department of Mechanical Engineer

Chaltanva Bharati Institute of Technology (A) Chaltanya Bharati Institute of Technology (A) andipet, Hyderahad-500 075. Telangana. Chaltanya Bharathi Institute of Technology (A) andipet, Hyderahad-500 075. Telangana. Chaltanya Bharathi Institute of Technology (A)

Department of Mechanical Engineering

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CERTIFICATE

This is to certify that the Dissertation entitled "Design of Electromagnetic Plate Stacking Vehicle" was submitted by SHAIK SAMEER HUSSAIN, bearing Roll No. 1601-22-765-003 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 2022-2024 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.

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

Supervisor

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

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PROFESSOR & HEAD Department of Mechanical Engineering haitanya Bharathi Institute of Technology (* andipet, Hyderabad-500 075. Telanoar

Department of Mechanical Engineering CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

(Affiliated to Osmania University, Hyderabad) Gandipet, Hyderabad-500075



CERTIFICATE

This is to certify that the Dissertation entitled "Design And Analysis Of Piston Using Different Materials" was submitted by TANVEER AHMED KHAN, bearing Roll No. 1601-22-765-004 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 2022-2024 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.

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

Gandipet, Hyderabad-500 075. Telangana CIATE PROFESSOR & HEAD

- artment of Mechanical Engineering aitanya Bharathi Institute of Technology (A) diget, Hyderabad-500 075. Telangana.

Head of the Department

SSOR & HEAD of Mechanical Engineering _ - railathi institute of Technology (A) nyderabad-500 075. Telangana

Department of Mechanical Engineering

Chaitanya Bharathi Institute of Technology (A) (Affiliated to Osmania University) Hyderabad



CERTIFICATE

This to certify that the dissertation work entitled "Design and Analysis of Base Bleed Strategies for Optimized Truncated Aerospike Nozzle Performance" submitted by Mr. ABRAR AHMED, Roll No. 160122765005 in partial fulfillment for the award of the degree of "Masters of Engineering" in "CAD/CAM" is a bonafide record of project work carried out by him during the academic year 2022-2024 under my supervision. The results embodied in this project report has not been submitted to any other institute or university for the award of any degree.

Joseph Supervisor

ASSOCIATE PROFESSOR & HEAD Chaitanya Bharathi Institute of Technology (A)

PROFESSOR Sandipet, Hyderabad-500 075. Telangana.

Head of the Department

ASSOCIATE RACFESSORING : "! Mechanical Enterview Mil ... Bharaini institute of hacaninos (M micipet, Hyderabed-500 075. Telangana

PROFESSOR & HEAD Department of Mechanical Engineering Chaltanya whacathi institute of Technology (A) andipet, nyderabad-500 075. Telangana



his is to certify that the Dissertation entitled "Optimization Of Design And Fabrication Using Direct nergy Deposition 3d Printer" was submitted by GAJAM PAVAN RAM, bearing Roll No. 1601-22-55-006 in partial fulfilment for the award of the degree of Master of Engineering in Mechanical ngineering with specialization in CAD/CAM during the academic year 2022-2024 in Chaitanya Bharathi istitute of Technology (Autonomous), Hyderabad was carried out under my supervision and that this fork was not submitted elsewhere for the award of any other degree.

Dr. P. PRABHAKAR REDDY

rofessor and Head of department Mechanical Engineering Department

PROFESSOR & HEAD
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Dr.P.RAVINDER REDDY

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CERTIFICATE

This to certify that the dissertation work entitled "DESIGN AND ANALYSIS OF INDUSTRIAL CONVEYOR SYSTEM" submitted by SANGEM SAI KUMAR, bearing roll No.160122765008 in partial fulfilment of the requirement for the award of the degree of "Masters of Engineering" in "CAD/CAM" is a bonafide work carried out by him during the academic year 2023-2024. The results embodied in this project report has not been submitted to any other institute or university for the award of any degree.

Dr. P. PRABHAKAR REDDY

Professor and Head

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This is to Certify that the Dissertation entitled "DESIGN AND ANALYSIS OF HIGH CURRENT WATER-COOLED FEEDTHROUGH FOR 125KW FURNACE" was submitted by D.V.SAI PRANEETH YADAV, bearing Roll No.1601-22-765-010 in partial fulfilment of the requirements for the award of the degree of Master of Engineering in Mechanical Engineering with specialization in CAD/CAM during the academic year 2022-2024 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.

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This is to certify that the project work entitled "DESIGN AND ANALYSIS OF AIRCRAFT WHEEL HUB" is submitted by GUGLOTH PREM KUMAR – (1601-22-765-011) in the department of Mechanical Engineering in partial fulfillment of requirements for the award of degree of Master of Technology in CAD/CAM for the academic year 2023-24. This work has been carried out under my guidance and has not been submitted the same for any university/institution for award of any Degree/Diploma.

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This is to certify that the Dissertation work entitled "DESIGN AND THERMAL ANALYSIS OF RADIAL ENGINE MASTER ROD USING ANSYS " was submitted by K.PRUTHVLRAJ, Roll No.1601-22-765-013 in partial fulfilment of the requirement for the award of the degree of "Masters of Engineering" in CAD/CAM is a bonafide work carried out by him during the academic year 2022-2024. The results embodied in this project report has not been submitted to any other institute or university for the award of any degree

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This is to certify that the Dissertation entitled "DESIGN OF THERMAL MANAGEMENT SYSTEM FOR POWER GENERATION UNIT USED IN AIRCRAFT" was submitted by DEVIREDDY VIKAS REDDY, bearing Roll No. 160122765014 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 2022-2024 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.

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This is to certify that the thesis entitled "Influence of height of gurney flap and angle of attack for Optimization on Aerodynamic and Shape of NACA 2414 Air foil" by N.MANOJ (1601-22-745-101) is a bonafide record of project work carried out under my supervision and has not submitted elsewhere for a degree.

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This is to certify that the Thesis entitled "EXPERIMENTAL STUDIES ON SOLAR AND WIND HYBRID SYSTEM FOR OPTIMUM POWER GENERATION" by MOHAMMAD FAIZAN AHMED, Roll No. 1601-22-745-102 is a bonafide record of project work carried out under my supervision and has not submitted elsewhere for a degree.

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This is to certify that the thesis entitled "EXPERIMENTAL INVESTIGATION ON THE EFFECT OF FUEL ADDITIVES WITH COTTON SEED BIODIESEL ON THE PERFORMANCE, COMBUSTION AND EMISSION CHARACTERISTICS OF DIESEL ENGINE" by MD ZAIN UL AABEDEEN (1601-22-745-103) is a bonafide record of project work carried out under my supervision and has not submitted elsewhere for a degree.

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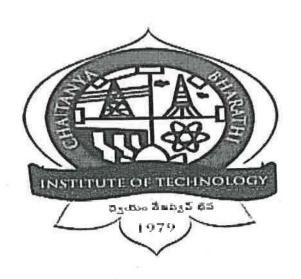
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This is to certify that the thesis entitled "DESIGN AND CONSTRUCTION OF SOLAR DRYER FOR DRYING AGRICULTURAL PRODUCTS" by MADHA DURGA BHAVANI (1601-22745-104) is a Bonafide record of project work carried out under my supervision and has not submitted elsewhere for a degree.

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This is to certify that the thesis entitled "THERMAL CHARACTERIZATION OF POLYIMIDE COMPOSITES FOR HIGH TEMPERATURE APPLICATIONS" by M. NAVEEN (1601-22-745-106) is a bonafide record of project work carried out under my supervision and has not submitted elsewhere for a degree.

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