PRIYADARSHINI INSTITUTE OF TECHNOLOGY AND SCIENCE

(Affiliated to J.N.T.U., Kakinada & approved by A.I.C.T.E., New Delhi)
Chintalapudi-522 306, Near Tenali, Guntur Dt. (A.P)



# **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON MECHANICAL PROPERTIES OF CONCRETE BY PARTIAL REPLACEMENT OF CEMENT WITH EGG SHELL POWDER AND FLY ASH" being submitted by D.PARAM JYOTHI bearing Regd No.19N21A0102. of 2019- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. INTU KAKINADA has been approved.

#### Examiners:

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K.KIRAN KUMAR, M.Tech.

Assistant Professor ..... L.U....

2. Head of the Department

K.KIRAN KUMAR, M.Tech.PhD

Associate Professor .....

Head of the limit to ant

Depertment of Civil Engineering Priyadarshin Institute of Tachburgs & Science

CHINTALAPUDI - 522 308

3. External Examiner .

PRIYADARSHINI INSTITUTE OF TECHNOLOGY AND SCIENCE

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### **B.TECH THESIS EVALUATION REPORT**

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1. Project Guide	
K.KIRAN KUMAR, M.Tech,	. 1
Assistant Professor	0-18/4/23/
2. Head of the Department	, , , , , , , , , , , , , , , , , , ,
K.KIRAN KUMAR ,M.Tech,PhD	Hoad of the Department
Associate Professor	Priyadarshini Institute of Technology & Science CHINTALAPUDI 522 306
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#### **Examiners:**

1. Project Guide	
K.KIRAN KUMAR, M.Tech,	1-1-1
Assistant Professor	
2. Head of the Department	" " " " " " " " " " " " " " " " " " "
K.KIRAN KUMAR, M. Tech, PhD	Head of the February 23
Associate Professor	Duparment of Civil Engineering
	PriyaGarahini Institute of Tochnology & Science CHINTALAPUDI - 522 308
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3. External Examiner ....

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This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON MECHANICAL PROPERTIES OF CONCRETE BY PARTIAL REPLACEMENT OF CEMENT WITH EGG SHELL POWDER AND FLY ASH" being submitted by M.KARUNYA bearing Regd No.20N25A0106. of 2019-2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

# 1. Project Guide K.KIRAN KUMAR, M.Tech, Assistant Professor 2. Head of the Department K.KIRAN KUMAR, M.Tech, PhD Associate Professor Professor Project Guide K.KIRAN KUMAR, M.Tech, PhD Associate Professor CHINTALAPUDI - 522 308 3. External Examiner

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# **B.TECHTHESISEVALUATIONREPORT**

This thesis entitled This is to certify that the project entitled "AN EXPERIMENTAL INVESTIGATION ON CONCRETE BY USING CRUSHED CLAY BRICK POWDER AND COCONUT FIBER AS PARTIALLY REPLACEMENT OF FINE AGGRAGTE" being submitted by MEDIBOYINA PRASAD bearing Regd No.192B1A0103. of 2020- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY In CIVIL ENGINEERING of PRIYADARSHIINSTITUTEOFTECHNILOGYANDSCIENCE, CHINTAL

#### APUDI.JNTUKAKINADAhas been

#### Examiners:

1. ProjectGuide

K.KIRANKUMAR, M. Tech.

AssistantProfessor.....

2. HeadoftheDepartment

K.KIRANKUMAR, M. Tech. PhD AssociateProfessor.....

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#### Examiners:

1. ProjectGuide

K.KIRANKUMAR, M. Tech,

AssistantProfessor.....

2. HeadoftheDepartment

K.KIRANKUMAR, M. Tech, PhD

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#### **Examiners:**

1. ProjectGuide

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AssistantProfessor.....

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1. ProjectGuide
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#### Examiners: 1 Project Guide

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2. Head of the Department

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1. Project Guide	
K.KIRAN KUMAR, M.Tech,	chain.
Assistant Professor	
2. Head of the Department	
K.KIRAN KUMAR, M. Tech. PhD	e enl
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3. External Examiner ......

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#### Examiners:

1.	Project	Guide	

K.KIRAN KUMAR, M.Tech,

2. Head of the Department K.KIRAN KUMAR, M.Tech, PhD

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III

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### Examiners:

1.	Project Gui	de

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1. Project Guide	
K.KIRAN KUMAR, M.Tech,	XIII
Assistant Professor	Ty.
2. Head of the Department K.KIRAN KUMAR, M.Tech, PhD	ant.
Associate Professor	Mean of the sequence of Science Stryadarshini Institute of Technology & Scienc
3 External Examiner	CI- Rryadarshini Institute PUDI - 522

#### PRIYADARSHINI INSTITUTE OF TECHNOLOGY AND SCIENCE

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### **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON BEHAVIOUR OF CONCRETE ON **PARTIAL** REPLACEMENT OF SAND WITH WASTE GLASS POWDER" being submitted by P PARIMALA bearing Regd No. 19X21A0112; of 2019- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY In CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

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1. ProjectGuide

3. External Examiner

P.N.V.N.PKF Assistant P	RISHNA M	Tech, P. by	smor.	**		
2. Head o	f the Depar					
K.KIRAN	KUMAR					
,M.Tech.Ph	ıD		1	of Of the	vit Engineering Lecturion & Scien	
Associate	Professor	************		ment of	Technology & Scien	LL

#### PRIYADARSHINI INSTITUTE OF TECHNOLOGY AND SCIENCE

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# **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON BEHAVIOUR OF CONCRETE ON PARTIAL REPLACEMENT OF SAND WITH WASTE GLASS POWDER" being submitted by V.RAM BHUPAL bearing Regd No. 19X21A0120. of 2019-2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND

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#### Examiners:

1. Project Guide	
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P.N.V.M.P KRISHNA, M.Tech. Assistant Professor.  2. Head of the Department	**********
2. Head of the Department	
K.KIRAN KUMAR, M.Tech, PhD	Head of the Supartment
Associate Professor	Head of the Eugertment Department of Civil Eugineering
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3. External Examiner ....

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#### Examiners:

1	Proi	ect	Guide
Į.	LIOI	CUL	Guide

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Assistant Professor....

2. Head of the Department

K.KIRAN KUMAR, M.Tech, PhD

Associate Professor

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... Deputment of Civil Engineering

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#### Examiners:

I. Project Guide

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2. Head of the Department

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SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

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1. Project G
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P.N.V.M.P KRISHNA, M.Tech.

Assistant Professor.....

2. Head of the Department

K.KIRAN KUMAR, M.Tech.PhD

Associate Professor

Head the Invariant

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This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON BEHAVIOUR OF CONCRETE ON PARTIAL REPLACEMENT OF SAND WITH WASTE GLASS POWDER" being submitted by S. SREEKANTH bearing Regd No. 19X21A0116. of 2019-2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND

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#### Examiners:

1. Project Guide

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Assistant Professor.....

2. Head of the Department

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Head of the Department 4 23

Head of the Department | Partment of Civil Funineeric

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#### Examiners:

1. ProjectGuide

P.N.V.N.PKF Assistant Pr	ofessor	Tech,	Fright.	
2. Head of	the Depart	tment		
K.KIRAN	KUMAR			a miait, ent
,M.Tech.Phl	D		Head or "	Civi Engineeri
Associate	Professor	*********	Paranthan Institu	r Civi: Engineerin. te of Technology & Scienc.
3. External	Examiner		Suf	•••••

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#### Examiners:

1. ProjectGuide

P.N.V.N.PI	KRISHNA	M.Tech,	pulgher.
Assistant	Professor		

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1. Project Guide	
K.KIRAN KUMAR, M.Tech,	
Assistant Professor	
2. Head of the Department	
K.KIRAN KUMAR, M.Tech, PhD	
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Privatershiru Institute of Technology  GHINTALAPUDI - 522	B Science
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#### **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON UTILIZATION OF COCONUT SHELL AGGREGATE AS A PARTIAL REPLACEMENT FOR COARSE AGGREGATE IN QUALITY CONCRETE" being submitted by R DURGA RAO bearing Regd No. 20X25A109, of 2019-2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING OF PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

#### Examiners:

1. ProjectGuide

K.SANGEETHA RAO, M. Tech.

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2. Head of the Department

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# **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON UTILIZATION OF COCONUT SHELL AGGREGATE AS A PARTIAL REPLACEMENT FOR COARSE AGGREGATE IN QUALITY CONCRETE " being submitted by P.NARAYANA bearing Regd No. 20X25A0107. of 2020- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

1. ProjectGuide
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# **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON UTILIZATION OF COCONUT SHELL AGGREGATE AS A PARTIAL REPLACEMENT FOR COARSE AGGREGATE IN QUALITY CONCRETE" being submitted by T.POTHURAJU bearing Regd No. 18BJ5A0113. of 2018- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

1. Project(	Guide		
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#### **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON UTILIZATION OF COCONUT SHELL AGGREGATE AS A PARTIAL REPLACEMENT FOR COARSE AGGREGATE IN QUALITY CONCRETE " being submitted by K CHKRAVARTIII bearing Regd No. 20X25A103. of 2019- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY In CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

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1. ProjectGuide

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К.	SA	NGEETHA	RAO.	M.Tech.

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# **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON UTILIZATION OF COCONUT SHELL AGGREGATE AS A PARTIAL REPLACEMENT FOR COARSE AGGREGATE IN QUALITY CONCRETE" being submitted by S.BALARAJU bearing Regd No. 19X21A0117. of 2019- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

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Associate	Professor		Department of Civil E. Priyalashini lastitute of Technocher ! CHINTALAPUDI !!	nicali & acigina
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# **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON UTILIZATION OF COCONUT SHELL AGGREGATE AS A PARTIAL REPLACEMENT FOR COARSE AGGREGATE IN QUALITY CONCRETE" being submitted by VALLIPALLI ASHOK bearing Regd No. 19X21A0119. of 2019- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING OF PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

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1. Projec	tGuide	
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### **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON UTILIZATION OF COCONUT SHELL AGGREGATE AS A PARTIAL REPLACEMENT FOR COARSE AGGREGATE IN QUALITY CONCRETE" being submitted by Y.GOPI KRISHNA bearing Regd No. 19X21A0121. of 2019- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

1. ProjectGuide					
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# **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON UTILIZATION OF COCONUT SHELL AGGREGATE AS A PARTIAL REPLACEMENT FOR COARSE AGGREGATE IN QUALITY CONCRETE "being submitted by SK.NAGURVALI bearing Regd No. 192B1A0107. of 2019- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

## **Examiners:**

l.	ProjectGuide
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### **B.TECHTHESISEVALUATIONREPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ONSTRENTHENINGPROPERTIESOFCONCRETEPARTIALLY REPLACED WITH CEMENT BY RICE HUSK ASH" being submitted by SMARGARATE bearing Regd No.19X21A0115 of 2019- 2023 batch in partial fulfillment of therequirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved Examiners:

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## **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON UTILIZATION OF COCONUT SHELL AGGREGATE AS A PARTIAL REPLACEMENT FOR COARSE AGGREGATE IN QUALITY CONCRETE" being submitted by L.KRISHNA KANTH bearing Regd No. 19X21A0107. of 2019- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

#### **Examiners:**

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# **B.TECHTHESISEVALUATIONREPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ONSTRENTHENINGPROPERTIESOFCONCRETEPARTIALLY REPLACED WITH CEMENT BY RICE HUSK ASH" being submitted by M UMA BHARATHI bearing Regd No.19X21A0110 of 2019- 2023 batch in partial fulfillment of therequirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved Examiners:

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M.Tech.PhD	ne dante
Associate Professor	Productive of Technology & Science
3. ExternalExaminer	CHINI SLAVE OF TECHNICAL SERVICE OF THE STATE OF THE SERVICE OF TH

#### PRIYADARSHINI AND SCIENCE

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# **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON STRENTHENING PROPERTIES OF CONCRETE PARTIALLY REPLACED WITH CEMENT BY RICE HUSK ASH" being submitted by P.CHAKRAVARTHY bearing Regd No. 19X21A0113. of 2019- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

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# **B.TECHTHESISEVALUATIONREPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ONSTRENTHENINGPROPERTIESOFCONCRETEPARTIALLY REPLACED WITH CEMENT BY RICE HUSK ASH" being submitted by M PREETHI bearing Regd No.19X21A0109 of 2019- 2023 batch in partial fulfillment of therequirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved 

Examiners:

1. ProjectGuide
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Assistant Professor. Ch. L. Nagabaler
2. Head of the
DepartmentK.KIRANKUMAR,
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# **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON STRENTHENING PROPERTIES OF CONCRETE PARTIALLY REPLACED WITH CEMENT BY RICE HUSK ASH" being submitted by R.NAGASESHI REDDY bearing Regd No. 19X2B1A0106. of 2019- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

Examiners:	
1. Project Guide	
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Assistant Professor	Magabala
2. Head of the Department	*
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50 <b>*</b> ()	Dupremment of Civil Emplored by Priyadarshini Institute of Technology & Science CHINTALAPUDI - 522 308
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# DEPARTMENT OF CIVIL ENGINEERING

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**B.TECH THESIS EVALUATION REPORT** 

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON STRENTHENING PROPERTIES OF CONCRETE PARTIALLY REPLACED WITH CEMENT BY RICE HUSK ASH" being submitted by bearing Regd No. 19X21A0101 of 2019- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY In CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

### Examiners:

1. Project Guide

CH.L.NAGA BALA.

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2. Head of the Department

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### DEPARTMENT OF CIVIL ENGINEERING

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### **B.TECH THESIS EVALUATION REPORT**

This thesis entitled "AN EXPERIMENTAL INVESTIGATION ON STRENTHENING PROPERTIES OF CONCRETE PARTIALLY REPLACED WITH CEMENT BY RICE HUSK ASH" being submitted by K.VAMSI KRISHNA bearing Regd No. 20X25A0104. of 2020- 2023 batch in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING of PRIYADARSHI INSTITUTE OF TECHNILOGY AND SCIENCE CHINTALAPUDI. JNTU KAKINADA has been approved.

### Examiners:

1. Project Guide	
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2. Head of the Department	Head or the website - 201
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#### **BONAFIDE CERTIFICATE**

This is to certify that this project titled "MARKET BASKET ANALYSIS IN PYTHON" is the bonafide work done by

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K.BINDHU 19X21A0535
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K.SAGAR MOJESH 192B1A0509

Under my guidance and supervision in partial fulfillment for the award of Bachelor of Technology in COMPUTER SCIENCE & ENGINEERING submitted to JNTU Kakinada.

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This is to certify that this project titled "Forecasting ipad sales" is the bonafied work done by

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#### **BONAFIDE CERTIFICATE**

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Under my guidance and super vision in partial fulfilment for the award of Bachelor of Technology in COMPUTER SCIENCE & ENGINEERING with computer Science & Engineering specialization during the academic period of 2019-2023.

Assistant Professor

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19X21A0554

KTIRUMALA

19X21A0531

B.SHUSHA

19X21A0505

Y.GOPAL REDDY

19X21A0575

Under my guidance and supervision in partial fulfillment for the award of Bachelor of Technology in COMPUTER SCIENCE & ENGINEERING submitted to JNTU Kakinada.

Project Guide

A.BHARATHI DEVI

Assistant Professor

Head of the Department
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Department of Computer Science & Engineering



### **BONAFIDE CERTIFICATE**

This is to certify that this project titled "WORD CLOUD IN PYTHON" is the bonafide work done by

**N.JYOTHSNA** 

19X21A0557

T.RAJARAJESWARI

192B1A0526

CH.SANDEEP

19X21A0513

K.BHAVANNARAYANA 192B1A0508

Under my guidance and supervision in partial fulfillment for the award of Bachelor of Technology in COMPUTER SCIENCE & ENGINEERING submitted to JNTU Kakinada.

K. Sweip Rani Project Gulle K. SWARUPA RANI Head of the Department
CHANDU. DELHI POLICE

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Head of the Department
Computer Science & Engineering
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### BONAFIDE CERTIFICATE

This is to certify that this project titled RANDOM FOREST ANALYSIS USING PYTHON is the Bonafide work done by

Nukala Anusha

-19X21A0558

Pitta Rajasekhar

-192B1A0519

Tumati Baji Babu

-192B1A0527

Giddamareppa Aswini -19X21A0521

Under my guidance and super vision in partial fulfillment for the award of Bachelor's of Technology in Computer Science & Engineering with Computer Science & Engineering specialization during the academic period of 2019-23.

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Head of the Department Head of the Department Computer Science & Engineering Privadarshini Institute of Technology & Science

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#### **BONAFIDE CERTIFICATE**

This is to certify that this project titled "IMAGE ANALYSIS" is the bonafide work done by

G.MAHATHI

19X21A0518

M.SANDEEP

19X21A0546

**B.BHARGAVI** 

Externel

19X21A0508

K.RAJESH

19X21A0536

Under my guidance and supervision in partial fulfillment for the award of Bachelor of Technology in COMPUTER SCIENCE & ENGINEERING submitted to JNTU Kakinada.

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**Assistant Professor** 

CHANDU.DELHI POLICE

Assoc. Prof. & HOD

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### **BONAFIDE CERTIFICATE**

This is to certify that this project titled "SENTIMENT ANALYSIS

OF DATA USING ON PYTHON,, is the bonafide work done by

G. MEGHANA -19X21A0526 M. G. THARAKA RAM -19X21A0551 M. SAGAR -19X21A0548 A. PRASANNA LAKSHMI -19X21A0501

Under my guidance and supervision in partial fulfillment for the award of Bachelor of Technology in COMPUTER SCIENCE & ENGINEERING Submitted to JNTU Kakinada.

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### BONAFIDE CERTIFICATE

This is to certify that this project titled "A MACHINE LEARNING METHODOLOGY FOR DIAGNOSING CHRONIC KIDNEY DISEASE- is the bonafide work done by

> K.MOUNIKA -19X21A0543 B.PUJETHA -19X21A0510 SK.SHAHEENA -19X21A0568

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Under my guidance and supervision in partial fulfillment for the award of Bachelor of Technology in COMPUTER SCIENCE & ENGINEERING

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#### BONAFIDE CERTIFICATE

This is to certify that this project titled "GENDER AND AGE BASED FACIAL RECOGNITION WITH DEEP LEARNING NEURAL NETWORK ALGORITHM- is the bonafide work done by

N. MASTAN VALI

19X21A0556

R. SUREKHA REDDY

19X21A0564

V. NAVEEN

19X21A0570

Under my guidance and supervision in partial fulfillment for the award ofBachelor of Technology in COMPUTER SCIENCE & ENGINEERING submitted to JNTU Kakinada.

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Head of the Department

CHANDU.DELHI POLICE Assoc. Prof. & HOD

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Chintalapudi - 522306, Tenali

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\$22281 Near Transi, Guntur DL(A.P)

Department of Computer Science & Engineering



#### BONAFIDE CERTIFICATE

This is to certify that this project titled "CRIME DATA ANALYSIS" is the bonafide work done by

SINEELIMA

-19X21A0567

**ESREEKAVYA** 

-19X21A0516

Under my guidance and supervision in partial fulfillment for the award of Bachelor of

Technology in COMPUTER SCIENCE & ENGINEERING submitted to JNTU

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KVENKAT RAO

Antistnat Professor

Computer Science & End

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### BONAFIED CERTIFICATE

This is to certify that this project title "Hubway data analysis" is the bonafied work done by

N. TIRUMALA VENKATA KALYAN - 192B1A0517

M. CHINNA BABU

- 192B1A0511

M. MADHU SUDHAN

- 19X21A0553

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K. VENKATA RAO

Assistant Professor

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#### BONAFIDE CERTIFICATE

This is to certify that this project titled "CLASSIFICATION OF POETRY TEXT INTO THE EMOTIONAL STATES USING DEEP LEARNING TECHNIQUE" is the bonafide work done by

S.HUSSAIN VALI 192B1A0524 N.PAVAN KUMAR 192B1A0516 K.VENKATESH 19X21A0540 M.GOPI 19X21A0549

Under my guidance and supervision in partial fulfillment for the award of Bachelor of Technology in COMPUTER SCIENCE & ENGINEERING submitted to JNTU Kakinada.

Project Guide

B.AJAY TEJA
Assistant Professor

Payatare Head of the Department Competition the Department icience

CHANDU.DELIII POLICE Assoc. Prof. & HOD

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



# CERTIFICATE

This is to certify that the project report entitled "CHANNELS OF DISTRIBUTION" is a bonafide record carried out by RAVELA KISHORE BABU Regd. No.21X21E00A0, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION of JAWAHARLAL NEHRU TECHONOLOGICAL UNIVERSITY, Kakinada during the academic year 2021-2023

Viva voce Date:

HEAD OF THE DEPARTMENT
Mr.Dr A. Srikanth babu
M.B.A.M.Com,Ph.D

Internal Examiner

Principal
Dr.N. Lakshmi Narayana
Principal, M.Tech, Ph.D

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIVADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



# CERTIFICATE

This is to certify that the project report entitled "PROFITABILITY ANALYSIS" is a bonafide record carried out by R.RAMYA SREE, (Regd.No:21X21E00D3) who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION of JAWAHARLA NEHRUTECHONOLOGICALUNIVERSITY, Kakinada during the academic year 2021-2023

Viva voce Date:

HEAD OF THE DEPARTMENT Mr.A. Srikanth babu M.B.A.M.Com,Ph.D

Principal
Dr.N. Lakshmi Narayana
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Internal Examiner

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIVADARSHINI INSTITUTE OF TECHNILOGY &SCIENCE CHINTALAPUDI



# **GERTIFICATE**

This is to certify that the project report entitled "PERFORMANCE APPRAISAL" is a bonafide record carried out by CHANDOLU SANDHYA Regd.No. 21X21E0014, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION OF JAWAHARLAL NEHRU TECHONOLOGICAL UNIVERSITY, Kakinada during the academic year 2021-2023.

Viva voce Date:

Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT Mr. DrA. Srikanth Babu M.B.A. M.Com. PhD

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY &SCIENCE CHINTALAPUDI



# CERTIFICATE

This is to certify that the project report entitled "TRAINING AND DEVELOPMENT" is a bonafide record carried out by K.D.SRI VENKATA SAI Regd.No. 21X21E00D4, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION OF JAWAHARLAL NEHRU TECHONOLOGICAL UNIVERSITY, Kakinada during the academic year 2021-2023.

Viva voce Date:

Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT
Mr. A. Srikanth Babu
M.B.A, M.Com, Ph.D

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIVADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHENTALAPUDI



# CERTIFICATE

This is to certify that the project report entitled "A STUDY ON PAYROLL MANAGEMENT WITH REFERENCE TO DELTA SUGARS LIMITED, VIJAYAWADA" is a bonafide record carried out by CHAMISHNAY), Regd. No.21321E001R, who carried out under our guidance and supervision, as a partial fulfillment for the award of Minter of Business Administration degree in the Department of Business Administration Of Law abortal Nebru Technological University, Kakinada during the academic year 2021-2023

Viva voce Date:

Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT

Mr.A.Srikanth Babu M.B.A.M.Com.Ph.D

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



# E CERTIFICATE

This is to certify that the project report entitled "A STUDY ON EMPLOYEE MOTIVATION WITH REFERENCE TO SANGAM MILK PRODUCER COMPANY LTD, VADLAMUDI" is a bonafide record carried out by V.SONY, Regd. No.21X21E00C3, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of Business Administration Of Jawaharlal Nehru Technological University. Kakinada during the academic year 2021-2023

Viva voce Date:

Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT

Mr.A.Srikanth Babu M.B.A.M.Com.Ph.D

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALÁPUDI



## CERTIFICATE

This is to certify that the project report entitled "A STUDY ON MUTUAL FUNDS WITH EQUITY SAHRES WITH REFERENCE TO INDIA INFOLINE LTD, GUNTUR" is a bonafide record carried out by SK SUBHANI, Regd. No.21X21E00A6, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of Business Administration Of Jawaharlal Nehru Technological University. Kakinada during the academic year 2021-2023

Viva voce Date:

Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT

Mr.A.Srikanth Babu M.B.A,M.Com.Ph.D

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE

## CHINTALAPUDI



# **CERTIFICATE**

This is to certify that the project report entitled "RECRUITMENT & SELECTION" is a bonafide record carried out by P. THRIVENI, Regd.No.21X21E0096, carried out under our guidance and supervision, as a partial fulfillment for the award of Master of **Business** Administration degree in the Department of BUSINESS **ADMINISTRATION** of **JAWAHARLAL** NEHRU TECHONOLOGICAL UNIVERSITY, Kakinada during academic year 2021-2023.

Viva voce Date:

局。3.9 Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT Mr. A. SRIKANTH BABU M.B.A, M.Com,Ph.D

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



### © CERTIFICATE

This is to certify that the project report entitled "A STUDY ON TRAINING AND DEVELOPMENT WITH REFERENCE TO VIJAYA DAIRY, VIJAYAWADA" is a bonafide record carried out by R.KRISHNA PRIYA, Regd. No.21X21E00A2, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of Business Administration Of Jawaharlal Nehru Technological University, Kakinada during the academic year 2021-2023

Viva voce Date:

Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT

Mr.A.Srikanth Babu M.B.A.M.Com,Ph.D

# DEPARTMENT OF MUSINESS ADMINISTRATION PROTABLES ADMINISTRATION PROTABLED OF TRUMBLOOF & SCHOOL CHINTALAPUDI



# CERTIFICATE

This is to certify that the project report entitled "A STUDY ON VALUATION OF SHARES WITH REFERENCE TO SHAREHAN LTD, VIAYAWADA" is a bounfide record carried out by K.V.S.GURUMURTHY, Regd.No.21X21E0056, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of Business Administration Of Jawaharlal Nehru Technological University, Kakinada during the scademic year 2021-2023

Viva voce Date:

Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT

Mr.A.Srikanth Babu M.B.A.M.Com,Ph.D

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE

### CHINTALAPUDI



# CERTIFICATE

This is to certify that the project report entitled "DIGITAL MARKETING" is bonafide carried 2 record PATAN BARISHAIDA out by Regd.No.21X21E0087, who carried out under our guidance and supervision as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION of JAWAHARLAL NEHRU TECHONOLOGICAL UNIVERSITY, Kakinada during the academic year 2021-2023

Viva voce Date:

al Examiner

HEAD OF THE DEPARTMENT

Dr.Mr.A.Srikanth babu

M.B.A,M.Com,Ph.D

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINLINSTITUTE OF TECHNILOGY & SCIENCE

#### CHINTALAPUDI



### CERTIFICATE

This is to certify that the project report entitled "JOB SATISFACTION" is a bonafide record carried out by DARUNA LAKSHMI PRASANNA. Regd.No.21X21E0025, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION of JAWAHARLAL NEHRU

TECHONOLOGICAL UNIVERSITY. Kakinada during the

TECHONOLOGICAL UNIVERSITY, Kakinada during the academic year 2019-2021

Viva voce Date:

B→ → P Internal Examiner

**External Examiner** 

HEAD OF THE DEPARTMENT Mr.Dr.A.Srikanth Babu M.B.A,M.Com,PhD

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



# CERTIFICATE

This is to certify that the project report entitled "A STUDY ON COMPENSATION MANAGEMENT WITH REFERENCE TO KCP SUGAR AND INDUSTRIES CORPORATION LTD, VUYYURU" is a bonafide record carried out by I.PREMA KUMARI, Regd. No.21X21E0037, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of Business Administration Of Jawaharlal Nehru Technological University, Kakinada during the academic year 2021-2023

Viva voce Date:

Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT

Mr.A.Srikanth Babu M.B.A,M.Com,Ph.D

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIVADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



# **CERTIFICATE**

This is to certify that the project report entitled JOB SATISFACTION" is a bonafide record carried out by N.SAI PAVANI, Reg. No: 21X21E0081, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION of JAWAHARLAL NEHRU TECHONOLOGICAL UNIVERSITY, Kakinada during the academic year 2021-2023.

Viva voce Date:

Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT

Mr.A.Srikanth babu M.B.A,M.Com,Ph.D

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



# CERTIFICATE

This is to certify that the project report entitled "EMPLOYEE CAREER PLANNING" is a bonafide record carried out by CH.GOPI (Regd.No:21X21E0022) who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree the Department of BUSINESS ADMINISTRATION JAWAHARLAL TECHONOLOGICAL NEHRU UNIVERSITY, Kakinada during the academic year 2021-2023

Viva voce Date:

HEAD OF THE DEPARTMENT Mr.A. Srikanth babu M.B.A.M.Com, Ph.D

Principal
Dr.N. Lakshmi Narayana
Principal, M.Tech, Ph.D

Internal Examiner

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



# CERTIFICATE

This is to certify that the project report entitled "A STUDY ON FUNDS FLOW STATEMENT WITH REFERENCE TO ITC LIMITED, GUNTUR" is a bonafide record carried out by L.SWATHI, Regd.No.21X21E0060, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of Business Administration Of Jawaharlal Nehru Technological University, Kakinada during the academic year 2021-2023

Viva voce Date:

Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT

Mr.A.Srikanth Babu M.B.A,M.Com,Ph.D

## DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



## CERTIFICATE

This is to certify that the project report entitled "RATIO ANALYSIS" is a bonafide record carried out by DASARI LAKSHMI DURGA (Regd.No:21X21E00D2) who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION of JAWAHARLAL NEHRU TECHONOLOGICAL UNIVERSITY, Kakinada during the academic year 2021-2023

Viva voce Date:

Mr.A. Srikanth babu M.B.A,M.Com,Ph.D

Principal
Dr.N. Lakshmi Narayana
Principal, M.Tech, Ph.D

Internal Examiner

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



This is to certify that the project report entitled "CUSTOMER RELATIONSHIP MANAGEMENT" is a bonafide record carried out by CH.SACHIN, (Regd. No. 21X21E00D8), who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION of JAWAHARLAL NEHRU TECHONOLOGICAL UNIVERSITY, Kakinada during the academic year 2021-2023.

Viva voce Date:

HEAD OF THE DEPARTMENT

Mr.A. Srikanth babu

M.B.A,M.Com,Ph.D

Internal Examiner

Principal

Dr.N. Lakshmi Narayana

Principal, M.Tech, Ph.D

## DEPARTMENT OF BUSINESS ADMINISTRATION PRIVADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



## CERTIFICATE

This is to certify that the project report entitled "JOB SATISFATION" is a bonafide record carried out by I VENKATESWARLU (Regd.No:21X21E0036) who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION of JAWAHARLAL NEHRU TECHONOLOGICAL UNIVERSITY, Kakinada during the academic year 2021-2023

Viva voce Date:

HEAD OF THE DEPARTMENT
Mr.A. Srikanth babu
M.B.A,M.Com,Ph.D

Principal

Dr.N. Lakshmi Narayana

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Internal Examiner

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



## **CERTIFICATE**

This is to certify that the project report entitled "EMPLOYEE SATISFACTION" is a bonafide record carried out by P. YAMINI, (Regd.No:21X21E0085) who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION of JAWAHARLAL NEHRU TECHONOLOGICAL

UNIVERSITY, Kakinada during the academic year 2021-2023

Viva voce Date:

HEAD OF THE DEPARTMENT
Mr. DrA. Srikanth babu
M.B.A,M.Com,PhD

Principal
Dr.N. Lakshmi Narayana
Principal, M.Tech, Ph.D

Internal Examiner

# DEPARTMENT OF BUSINESS ADMINISTRATION PRIVADARSHINI INSTITUTE OF TECHNILOGY &SCIENCE CHINTALAPUDI



## **CERTIFICATE**

This is to certify that the project report entitled "TRAINING AND DEVELOPMENT" is a bonafide record carried out by, YEPURI HARIKA Regd. No. 21X21E00D9, who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION of JAWAHARLAL NEHRU TECHONOLOGICAL UNIVERSITY, Kakinada during the academic year 2021-2023.

Viva voce Date:

Internal Examiner

External Examiner

HEAD OF THE DEPARTMENT Mr.Dr A. Srikanth Babu M.B.A, M.Com, PhD

## DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



## CERTIFICATE

This is to certify that the project report entitled "LABOUR WELFARE MEASURES" is a bonafide record carried out by CH.RAHUL (Regd.No:21X21E0016) who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department of BUSINESS ADMINISTRATION of JAWAHARLAL NEHRU TECHONOLOGICAL UNIVERSITY, Kakinada during the academic year 2021-2023

Viva voce Date:

Mr.A. Srikanth babu M.B.A,M.Com,Ph.D

Principal
Dr.N. Lakshmi Narayana
Principal, M.Tech, Ph.D

Internal Examiner

## DEPARTMENT OF BUSINESS ADMINISTRATION PRIYADARSHINI INSTITUTE OF TECHNILOGY & SCIENCE CHINTALAPUDI



This is to certify that the project report entitled "MARKETING MIX" is a bonafide record carried out by V.BHUVANESH (Regd. No. 21X21E00C1), who carried out under our guidance and supervision, as a partial fulfillment for the award of Master of Business Administration degree in the Department JAWAHARLAL **ADMINISTRATION** BUSINESS UNIVERSITY, Kakinada TECHONOLOGICAL NEHRU during the academic year 2021-2023.

Viva voce Date:

Mr.A. Srikanth babu
M.B.A,M.Com,Ph.D

Internal Examiner

Principal
Dr.N. Lakshmi Narayana
Principal, M.Tech, Ph.D

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRIYADARSHINI INSTITUTE OF TECHNOLOGY & SCIENCE

(Affiliated to J.N.T.U., Kakinada & approved by A.I.C.T.E., New Delhi)
Chintalapudi-522 306, Near Tenali, Guntur Dt. (A.P)



## **BONAFIDE CERTIFICATE**

This is to certify that this project titled "HYSTERESIS CONTROLLED BASED POWER QUALITY IMPROVEMENT IN A RENEWABLE ENERGY SOURCE CONNECTED TO UTILITY GRID WITH BESS BASED STATCOM" is the bonafide work done by

	WOLK GOLLE DA	
M SOMASEKHAR	-	192B1A0201
D GANESH		20X25A0201
P ANKAMMARAO		19X21A0204
P CHAKRAVARTHI		
· omnered (Will III)		20X25A0207

under my guidance and super vision in partial fulfilment for the award of Bachelor of Technology in Electrical & Electronics Engineering to the JNTU KAKINADA.

M. Slavani Signature

Project guide

Miss M SRAVANI (M.Tech)

N1. Swarge Signature

Head of Department

Mr. M.SIVA NAGESWARA RAO (M.Tech)

EXTERNAL EXAMINER

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRIYADARSHINI INSTITUTE OF TECHNOLOGY & SCIENCE

(Affiliated to J.N.T.U., Kakinada & approved by A.I.C.T.E., New Delhi) Chintalapudi-522 306, Near Tenali, Guntur Dt. (A.P)

(2019-2023)



## **BONAFIDE CERTIFICATE**

This is to certify that this project titled "A NOVAL CONTROL STRATEGY FOR PV/WIND/BATTERY HYBRID SYSTEM USING HIGH GAIN BOOST CONVERTER" is the bonafide work done by

T KASAIAH

192B1A0202

D ASHOK KUMAR

20X25A0202

**B VAMSI** 

19X21A0202

T SANDHYA

20X25A0208

under my guidance and super vision in partial fulfilment for the award of Bachelor of Technology in Electrical & Electronics Engineering to the JNTU KAKINADA.

bignature

Signature

Project guide Mr. G RAVI KUMAR (M Tech)

Head of department
Mr. M SIVA NAGESWARA RAO (M Tech)

EXTERNAL EXAMINER.

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## DEPARTMENT OF MECHANICAL ENGINEERING

#### CERTIFICATE

This is to certify that the project entitled "DESIGN AND ANALYSIS OF A GEAR BOX" is being submitted by T.SHALEM RAJU (192B1A0311) in the partial fulfillment of the requirement for the award of the degree in MECHANICAL ENGINEERING for the acadimic year 2019-2023. This work is done under my supervision and guidance.

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#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **CERTIFICATE**

This is to certify that the project entitled "DESIGN AND ANALYSIS OF A GEAR BOX" is being submitted by K.SUNNY (192B1A0307) in the partial fulfillment of the requirement for the award of the degree in MECHANICAL ENGINEERING for the acadimic year 2019-2023. This work is done under my supervision and guidance.

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#### DEPARTMENT OF MECHANICAL ENGINEERING

#### **CERTIFICATE**

This is to certify that the project entitled "DESIGN AND ANALYSIS OF A GEAR BOX" is being submitted by T.MURALI KRISHNA (19X21A0311) in the partial fulfillment of the requirement for the award of the degree in MECHANICAL ENGINEERING for the acadimic year 2019-2023. This work is done under my supervision and guidance.

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#### DEPARTMENT OF MECHANICAL ENGINEERING

#### CERTIFICATE

This is to certify that the project entitled "DESIGN AND ANALYSIS OF A GEAR BOX" is being submitted by P.ESWAR SUBRAHMANYAM (20X25A0322) in the partial fulfillment of the requirement for the award of the degree in MECHANICAL ENGINEERING for the acadimic year 2019-2023. This work is done under my supervision and guidance.

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#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **CERTIFICATE**

This is to certify that the project entitled "DESIGN AND ANALYSIS OF A GEAR BOX" is being submitted by GORIPARTHI GANESH (20X25A0310) in the partial fulfillment of the requirement for the award of the degree in MECHANICAL ENGINEERING for the acadimic year 2019-2023. This work is done under my supervision and guidance.

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#### DEPARTMENT OF MECHANICAL ENGINEERING

#### CERTIFICATE

This is to certify that the project entitled "DESIGN AND FE ANALYSIS OF A DIESEL ENGINE PISTON" isbeing submitted by G.T.V SIVA RAMAKRISHNA (20X25A0309) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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#### DEPARTMENT OF MECHANICAL ENGINEERING

#### CERTIFICATE

This is to certify that the project entitled "DESIGN AND FE ANALYSIS OF A DIESEL ENGINE PISTON" isbeing submitted by NALUBOLU SUMANTH (19X21A0306) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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This is to certify that the project entitled "DESIGN AND FE ANALYSIS OF A DIESEL ENGINE PISTON" isbeing submitted by CHOKKA DEEN KUMARH (20X25A0307) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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#### DEPARTMENT OF MECHANICAL ENGINEERING

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This is to certify that the project entitled "DESIGN AND FE ANALYSIS OF A DIESEL ENGINE PISTON" isbeing submitted by D.DAVID RAJU (20X25A0308) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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## **DEPARTMENT OF MECHANICAL ENGINEERING**

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This is to certify that the project entitled "DESIGN AND FE ANALYSIS OF A DIESEL ENGINE PISTON" isbeing submitted by JOGI MALLIKARJUNA (20X25A0313) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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This is to certify that the project entitled "DESIGN AND FE ANALYSIS OF A DIESEL ENGINE PISTON" isbeing submitted by G.SRINIVASA RAO (20X25A0311) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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## **DEPARTMENT OF MECHANICAL ENGINEERING**

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This is to certify that the project entitled "DESIGN AND ANALYSIS OF A CAM SHAFT" is being submitted by BATTULA KUMAR (20X25A0302) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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This is to certify that the project entitled "DESIGN AND ANALYSIS OF A CAM SHAFT" is being submitted by MEKALA GOVINDU (20X25A0318) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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This is to certify that the project entitled "DESIGN AND ANALYSIS OF A CAM SHAFT" is being submitted by VUSA PAVAN KUMAR (20X25A0304) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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#### **CERTIFICATE**

This is to certify that the project entitled "DESIGN AND ANALYSIS OF A CAM SHAFT" is being submitted by GUNDA SIVA (20X25A0312) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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## **DEPARTMENT OF MECHANICAL ENGINEERING**

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This is to certify that the project entitled "DESIGN AND ANALYSIS OF A CAM SHAFT" is being submitted by H.PRATHAP (192B1A0305) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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This is to certify that the project entitled "DESIGN AND ANALYSIS OF A CAM SHAFT" is being submitted by V.VIJAYA GANGADHAR (20X25A0329) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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#### **DEPARTMENT OF MECHANICAL ENGINEERING**

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This is to certify that the project entitled "DESIGN AND ANALYSIS OF A TURBINE BLADE" is being submitted by A.YASWANTH (19X21A0301) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **CERTIFICATE**

This is to certify that the project entitled "DESIGN AND ANALYSIS OF A TURBINE BLADE" is being submitted by A.ASHISH (19X21A0314) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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## **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **CERTIFICATE**

This is to certify that the project entitled "DESIGN AND ANALYSIS OF A TURBINE BLADE" is being submitted by L.KIRAN (20X25A0315) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING

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#### DEPARTMENT OF MECHANICAL ENGINEERING

#### **CERTIFICATE**

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#### **DEPARTMENT OF MECHANICAL ENGINEERING**

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This is to certify that the project entitled "DESIGN AND ANALYSIS OF A TURBINE BLADE" is being submitted by M.ABHINAY PREETHAM ( 20X25A0319) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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#### DEPARTMENT OF MECHANICAL ENGINEERING

#### **CERTIFICATE**

This is to certify that the project entitled "DESIGN AND ANALYSIS OF A TURBINE BLADE" is being submitted by NARRA BAJI BABU ( 20X25A0321) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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This is to certify that the project entitled "DESIGN OF 150CC IC ENGINE CONNECTING ROD" is being submitted by S.ANJI BABU ( 192B1A0310) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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CHINTALAPUDI, Duggirala Mdl.

(Approved by A.I.C.T.E., New Delhi & Affiliated to J.N.T.U., KAKINADA) Chintalapudi (VIL) - 522306, Near Tenali, Duggirala (MD), Guntur (DT). A.P.



#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### CERTIFICATE

This is to certify that the project entitled "DESIGN OF 150CC IC ENGINE CONNECTING ROD" is being submitted by P.SANDEEP ( 20X25A0323) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

Internal Guide

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Head Of the Department

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Dr. K. LALITHA BABU M.Tech, (Ph.D) Associate Professor

**EXTERNAL EXAMINER** 

Dr. N. Lakshmi Narayana M.Tedi, Ph.D.

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#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### CERTIFICATE

This is to certify that the project entitled "DESIGN OF 150CC IC ENGINE CONNECTING ROD" is being submitted by S.SANDEEP KUMAR (19X21A0310) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### CERTIFICATE

This is to certify that the project entitled "DESIGN OF 150CC IC ENGINE CONNECTING ROD" is being submitted by CH N V SAI PAVANKALYAN (20X25A0305) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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## **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **CERTIFICATE**

This is to certify that the project entitled "DESIGN OF 150CC IC ENGINE CONNECTING ROD" is being submitted by CH.SAITEJA (20X25A0306) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

Internal Guide

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Or. K. LALITHA BABU M. Tech 19h D

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Dr. N. Lakshmi Narayana м.теф, Рь. D

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#### DEPARTMENT OF MECHANICAL ENGINEERING

#### **CERTIFICATE**

This is to certify that the project entitled "DESIGN OF 150CC IC ENGINE CONNECTING ROD" is being submitted by M.JYOTHI NAGA SAI (20X25A0320) in the partial fulfillment of therequirement for the award of the degree in MECHANICAL ENGINEERING for the acadimicyear 2019-2023. This work is done under my supervision and guidance.

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#### BONAFIDE CERTIFICATE

This is to certify that this project titled "SIGNATURE VERIFICATION USING NORMALISED STATIC FEATURES AND VERIFICATION is the bonified work done by

G.SOWN	IYA
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19X21A0417

M.SHARMILA

19X21A0429

K.GOPI

19281AD404

M.PRABHANAND

19X21A0427

T.RATNAKUMAR

19X21A0442

Under my guidance and super vision for the award of Bachelor of Technology in Electronics & Communication Engineering to the JNTU KAKINADA.

Signaturesignaturesignature

PT BalakrishnaM tech

SK SahirM tech

D Lakshing Narayana p hd

PRIVADARSHIN' INSTITUTE OF TECHNOLOGY & SCIENCE

ENTERNAL GEIDT: T.R. VICTORIAL CHINTALAPUDI, Duggirala MC. Guntur - 522 306

(Alfillated to Jawaharlal Nebru Technological University, Kakinoda, by A.1 C.T.E., New Delhi) CHINTALAPUDI(V), DUGGIRALA(M), NEAR TENALI - 522 306, GUNTUR DT (A.P)



DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING

#### BONAFIDE CERTIFICATE

This is to certify that the project entitled "AUTOMATIC OF TRAFFIC CONTROL SYSTEM USING MORPHOLOGICAL OPERATIONS a bonafide work of S. NAGASRAVANI(20N25A0407),B,SIVA(192B1A0401),M,ANITHA(19N21A0426), T.BINDU(19X21A0441), \$\text{SUBBARAO(19X21A0439).}

In the partial fulfillment of the requirement for the award of the degree of BACHERLOR of Technology in ELECTRONICS & COMMUNICATIONS ENGINEERING for the academic year 2019-23. This work is done under our guidance and supervision.

Project guide

MS.K.SALSRI

CHANDANA M. Tech

ther Terrall Gilliam (Dis

DR.N.Lakshmi Narayana

EXTERNAL EXAMINER: T.R. VISHILL

# A ROBUST MP3 AUDIO STEGANOGRAPHY WITH IMPROVED CAPACITY

Department of electronics & communication engineeing

# Priyadarshini institute of technology and science

(affiliated to J.N.T.U.Kakinada & approved by A.I.C.T.E., new delhi)

Chintalapudi-522306, near tenali, guntur Dt. (A.P)



## **BONAFIDE CERTIFICATE**

This is to certify that this project titled "A ROBUST MP3 AUDIO STEGNOGRAPHY WITH IMPROVED CAPACITY" is the bonafide work done by

M MEGHANA (19X21A0423)

A OMLA (19X21A0403)

J DINESH KUMAR (19X21A0411)

R GOPI (19X21A0436)

SK NAGULBI (20X25A0409)

Under my guidance and supervision in partial fulfillament for the award of bachelor of technology in electronics & communkcation engineering to the JNTU KAKINADA.

Sk.Sahir M.Tech

External examiner: T.R. Vishy

(Affiliated to JNTU-k & Approved by A.I.C.T.E. New Delhi)

CHINTALAPUDI, NEAR TENALI, GUNTUR (DT.) - 522306. AP



#### **DEPARTMENT** OF **ELECTRONICS & COMMUNICATION ENGINEERING**

### **BONAFIDE CERTIFICATE**

his is to certify that the project entitled "SOIL CLASSIFICATION & CHARATERIZATION BY USING IMAGE PROCESSING" is a bonafide work of in the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in ECTRONICS & COMMUNICATION ENGINEERING for the academic year 2019-2023. This work is done by

> A.PRAVALLIKA 19X21A0402

P MEGHANA 19X21A0405

CH.LAKSHMI SIREESHA 19X21A0410

M.SUHASINI 19X21A0422

LOEV ANAND 192B1A0402

MISS G ANJANI[M TECH]

EXTERNAL EXAMINER.

Near Tenall, Guntur (Dist.) 1 'R. Vishne

#### DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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#### **BONAFIDE CERTIFICATE**

This is to certify that this project titled "COLOR BALANCE AND FUSION FOR UNDERWATER IMAGE ENHANCEMENT" is the bonafide work done by

Y MOUNIKA

19N21A0448

D DIVYA

19X21A0412

ESWAPNA

19X21A0414

EESUB BAIG

19X21A0415

P.CHINNA

192B1A0405

under my guidance and supervision in partial fulfillment for the award of Bachelor of Technology in Electronics & Communication Engineering to the JNTU KAKINADA

Project Head

Mr.K.Rakesh, M.Tech,

Proposition of ECE
Proposition Institute of Technology & Science
CHINTALAPUDI - 522 306

Mrtskes Jenali, Runtur (Dist.)

PRIYADARSE VAT INSTITUTE OF DR.N. IECHHOUGGYAL PEDENCE

CHINTALAPUDI, Duggirala M.

Guntur - 522 306

EXTERNAL EXAMINER
-------------------

J. R. Vishny

# CLASSS ATTENDANCE MANAGEMENT SYSTEM USING FACE RECOGNITION

#### PRIVADARSHINI INSTITUTE OF TECHNOLOGY& SCIENCE

(Affiliated to J.N.T.U., KAKINADA& approved by A.I.C.T.E., New Delhi)
Chintalapudi-522 306, Near Tenali, Guntur Dt. (A.P)



#### BONAPIDE CERTIFICATE

his is to certify that the Project entitled "CLASS ATTENDANCE MANAGEMENT SYSTEM USING FACE RECOGNITION" is a bonafide work

#### done by

IRAJITHA	(19X21A0419)
CH.D.M.SAI LAKSHMI	(19X21A0409)
P SURESH	(19X21A0433)
P SIREESHA	(19X21A0434)
P BHANU PRAKASH	(19X21A0431)

Under my guidance and supervision for the award of Bachelor of Technology in Electronics & Communication Engineering to the JNTU KAKINADA

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DR N LAKSHMI NARAYANA,P.Ind PRINCIPAL

PRIYADARSHINI INSTITUTE OF TECHNOLOGY & SCIENCE CHINTALAPUDI, Duggirala Wica.

Suntur - 522 307

STERNAL EXAMINER T.R. Vishou

(Affiliated to JNTU-k & Approved by A.I.C.T.E. New Delhi)

CHINTALAPUDI, NEAR TENALI, GUNTUR (DT.) - 522306. AP



## **DEPARTMENT** OF **ELECTRONICS & COMMUNICATION ENGINEERING**

# **BONAFIDE CERTIFICATE**

This is to certify that the project entitled "AN ANALYSIS ON LPC, RASTA AND MFCC TECHNIQUES IN AUTOMATIC SPEECH RECOGNITION

SYSTEM"is the bonafided work done by

LANJALI

20X25A0404

R AMRUTHA PRIYA

192B1A0406

P.V.S.SUDARSAN

19X21A0430

LJYOTHIRMAI

19X21A0421

LNAGESWARA RAO

20X25A0405

Under the guidance and super vision in partial fulfilment for the award of BACHELOR OF TECHNOLOGY IN ELECTRONICS&COMMUNICATION ENGINEERING to the JNTU KAKINADA

MRS.CH.PUSHPA[M.TECH]

SK.SAHIR[M.TECH] [PH.D]

SINCIPAL

MR.N.LAKSHMI NARAYANA [PH.D]

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T.R. vishny

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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Chintalapudi-522306, Near Tenali, Guntur Dt. (A.P)



#### **BONAFIDE CERTIFICATE**

This is to certify that this project titled "IMAGE ENCRYPTION AND DECRYPTION ALGORITHM BASED ON THE CHAOTIC SYSTEM" is the G.RUPASRI(20X25A0403),SK.SHARMILA onafide work done by 19X21A0438),G.MALESH(19X21A0416),S.NANI(19X21A0440),A.HEMANTH 19X21A0401), under my guidance and supervision in partial fulfillment for the ward of Bachelor of Technology in Electronics & Communication Engineering to E INTU KAKINADA.

PINTECH

SK.SAHIR M.TECH

Department of ECE Priyadarchiai institute of Technology & Science CHINTALAPUDI - 622 308 Near Tenati, Guntur (Dist.)

DR.N. LAKSHMIRING PRIYADARSHINI TECHNOLOGY & SCIENCE CHINTALAPUDI, Duggirala Mic. Guntur - 522 308

FEIGNAL EXAMINER:

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Department of Electronics and Communication Engineering



#### **BONAFIDE CERTIFICATE**

This is to certify that this project title "Tumor Detection & Classification of MRI brain image using different wavelet transforms & SVMs" is the bonafide work done by

T LAKSHMI PRIYANKA - 19X21A0443

Y MEGHANA

- 19X21A0447

E SANJAY KUMAR

- 19X21A0413

M SYAMALA

- 19X21A0425

DINDRESH

- 20X25A0401

Lachelor of Technology in ELECTRONICS AND COMMUNICATION

ENGINEERING submitted to JNTU Kakinada

T.R. Vishny

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E. Divakar, M. tech

Sk. Sahir M.tech

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D.Lakshini Narayana ph.d

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CHINTALAPUDI, Duggirala Mu

Guntur - 522 368

# DEPARTMENT OF LECTRONICS & COMMUNICATION LNGMERING

PRIYADARSHINI INSTITUTE OF TECUNO FOCK & SCHOOL FICE Affiliated to INTU-k & Approved by ATC TE. New Delta 2019/2024 CHINTALAPODI, NEAR TENALL GUNTUR (DT.) - 522304. AP



#### BONAFIDE CERTIFICATE

This is to certify that the project entitled "FACIAL FEATURES MONITORING FOR REALITIME DROWSINESS DETECTION" is a bona fide work done by

SK I MINNA	[20825 \0108]
BRAMININAR	[19X21A6308]
SK EAS MINING	[1075] 4012.1
A TUNIDARAN	119/21/02451
2" SINANACA PRASAD	[20825A0308]

in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in ELECTRONICS&COMMUNICATION ENGINEERING for the academic year 2019-2023. This work is done under our guidance and supervision.

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T. P. Vishnu

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Guntur (677 108