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<b>KALYAN TEJA</b>	<b>:</b>	<b>17U11A0106</b>
<b>D.SRINIVAS</b>	<b>:</b>	<b>17U11A0107</b>
<b>R.SHIVA KUMAR</b>	<b>:</b>	<b>17U11A0126</b>
<b>M.CHENNAKESHAV</b>	<b>:</b>	<b>18U15A0135</b>
<b>U.ARTHIKA</b>	<b>:</b>	<b>18U15A0138</b>

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**Asst. Professor**

**HEAD OF THE DEPARTMENT**

**Mr. P.Avinash M.Tech**

**Asst. professor**

**EXTERNAL EXAMINER**

**Principal**

**Samskruti College of Engg. & Technology**  
**Kondapur (V), Ghatkesar (M), R.R. Dist**

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Kondapur(V), Ghatkesar(mandal), medchal(Dist)

Pin: 501301. Phones: 08415-222491/92.



## DEPARTMENT OF CIVIL ENGINEERING CERTIFICATE

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submitted by

B.KAMALAKAR (16U11A0104)


G.JASHWANTH (16U11A0109)

G.SANGEETHA (17U11A0113)

J.PRASHANTH (17U11A0135)

M.SHIRISHA (18U15A0114)

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HEAD OF THE DEPARTMENT  
Mr. P.AVINASH  
ASSISTANT PROFESSOR

EXTERNAL EXAMINER

  
Principal  
Samskruti College of Engg. & Technology  
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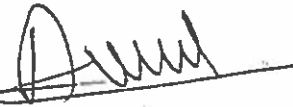
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SIGNATURE OF THE GUIDE:

Mr. S. MAHESH M Tech



HEAD OF THE DEPARTMENT:

Mr. P. AVINASH M Tech

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B. SHANMUKHA SRINIVASAN	(18L75A0103)
N. SHIVA RAMUDU	(18L75A0104)
R. MAHESH	(18L75A0113)
T. SAIKRISHNA	(18L75A0114)

  
Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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Kondapur (Village), Ghatkesar (Mandal), Medchal Dist. Pin – 501301.

Phones: 08415-222491/92



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**CERTIFICATE**


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“ANALYSIS OF PARTIAL  
REPLACEMENT OF CEMENT WITH  
RHA IN M25 GRADE CONCRETE”

submitted by

KOMMA RANJITH KUMAR	: 17U11A0117
BANDI YESUDAS	: 17U11A0131
BANOTHU PAVAN KALYAN NAYAK	: 17U11A0132
MANIKARAO SAI KUMAR	: 18U15A0113
KONNOJU SHRAVANI	: 18U15A0132

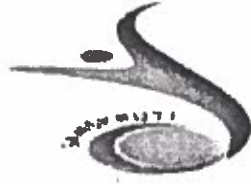
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ASSISTANT PROFESSOR

  
HEAD OF THE DEPARTMENT  
Mr. P. AVINASH (M. Tech)  
ASSISTANT PROFESSOR

EXTERNAL EXAMINER

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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Kondapur Village, Ghatkesar (Mandal), Medchal Dist Pin-501301  
Phones: 08415-222491/92

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**CERTIFICATE**

This is to certify that the dissertation entitled "**STRENGTH BASALT FIBER REINFORCED CONCRETE**" submitted  
by

**N.SREEKANTH**  
**CH.BHARGAV**  
**K.RAVI**  
**M.HEMANTH**  
**S.GANESH**

**:18U 15A0115**  
**:18U 15A0128**  
**:18U 15A0131**  
**:18U 15A0134**  
**:18U 15A0136**

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**Mr.P.AVINASH M.Tech**  
ASSISTANT PROFESSOR

  
HEAD OF THE DEPARTMENT  
**Mr.P.AVINASH M.Tech**  
ASSISTANT PROFESSOR

EXTERNAL EXAMINER

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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DEPARTMENT OF CIVIL ENGINEERING

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SUBGRADE THICKNESS BY USING GEOGRIDS "

**SUBMITTED BY**

<b>BAYYANI SRILATHA</b>	<b>18C25A0102</b>
<b>KAMMARI PRAVALIKA</b>	<b>18C25A0105</b>
<b>KATHROJI SHRAVAN KUMAR</b>	<b>18C25A0106</b>
<b>JADHAV DEEPIKA</b>	<b>18C25A0114</b>

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**INTERNAL GUIDE**

Mr. KHAJA KAMRANUDDIN M.Tech  
ASSISTANT PROFESSOR

**HEAD OF THE DEPARTMENT**

Mr. P. AVINASH M.Tech  
ASSISTANT PROFESSOR

**EXTERNAL EXAMINER**

**Principal**

Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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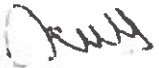
**CERTIFICATE**


This is to certify that the dissertation entitled "STRENGTH CHARACTERISTICS OF CONCRETE ON PARTIAL REPLACEMENT OF CEMENT BY STEEL FIBER".

submitted by

<b>THOTA MANISH</b>	<b>:17C21A0126</b>
<b>SAMPATHI NAVEEN</b>	<b>:17C21A0132</b>
<b>KUNDALA KALYAN KUMAR</b>	<b>:18C25A0107</b>
<b>K VINODKUMAR</b>	<b>:17C21A0116</b>

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**MR.P.AVINASH M.Tech**  
**ASSISTANT PROFESSOR**

  
**HEAD OF THE DEPARTMENT**  
**MR.P.AVINASH M.Tech**  
**ASSISTANT PROFESSOR**

**EXTERNAL EXAMINER**

  
**Principal**  
**Samskruti College of Engg. & Technology**  
**Kondapur (V), Ghatkesar (M), R.R. Dist**



**DEPARTMENT OF CIVIL ENGINEERING**

**CERTIFICATE**

This is to certify that the dissertation entitled "PLANNING OF SUPER SPECIALTY HOSPITAL IN CAD".

submitted by

**K.DATTA SAI EASWAR RAO**

**: 17C21A0115**

**JADHAV RAJU**

**: 17C21A0114**

**GUTLA RAJU**

**: 17C21A0113**

**THALLAPPELLY RAKESH**

**: 17C21A0125**

**MADDDHIKUNTA VENKATESH**

**: 17C21A0128**

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MR P.AVINASH M.Tech  
ASSISTANT PROFESSOR**

**HEAD OF THE DEPARTMENT  
MR.P.AVINASH M.Tech  
ASSISTANT PROFESSOR**

**EXTERNAL EXAMINER**

**Principal  
Samskruti College of Engg. & Technology  
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(Approved by A.I.C.T.E., New Delhi, Affiliated to JNTU, Hyderabad)

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Phones: 08415-222491/92



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This is to certify that the dissertation entitled "SELF COMPACTING CONCRETE"

submitted by

D.GANESH	: 18U15A0102
J.VAMSHI KRISHNA	: 18U15A0108
K.BHARATH	: 18U15A0110
G.RAVITEJA	: 17U11A0111
V.GANESH	:17U15A0119

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Ms.G.PRASANNA LAKSHMI M.Tech  
ASSISTANT PROFESSOR

  
HEAD OF THE DEPARTMENT  
Mr.P.AVINASH M.Tech  
ASSISTANT PROFESSOR

EXTERNAL EXAMINER

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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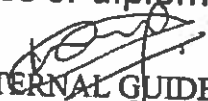



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**A STUDY ON WORKING OF KINETIC ROADS.**  
submitted by

<b>THEMBARENI KALKIRAM</b>	<b>:18U15A0137</b>
<b>BUJUNU RAKESH REDDY</b>	<b>:18U15A0126</b>
<b>KATTEKOLA PRADEEP</b>	<b>:18U15A0109</b>
<b>GUDISE HRUTHIK</b>	<b>:18U15A0105</b>
<b>BODA NAVEEN</b>	<b>:17U11A0105</b>

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**Mr. P. BIKKU**  
*Assistant Professor M. Tech*

  
**HEAD OF THE DEPARTMENT**  
**Mr. P. AVINASH**  
*Assistant Professor M. Tech*

**EXTERNAL EXAMINER**

  
**Principal**  
**Samskruti College of Engg. & Technology**  
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*SUBMITTED BY*

INUGURTHI VINAY KUMAR	18C25A0104
BOJJA MANOHAR	17C21A0129
BATHINI MALLESH	18C25A0101
BANOTH LAVA KUMAR	18C25A0111

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ASSISTANT PROFESSOR

  
**HEAD OF THE DEPARTMENT**  
Mr.P.AVINASH M.Tech  
ASSISTANT PROFESSOR

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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RAPOLU GANESH	17C21A0122
ARUMULLA NAVEEN	18C25A0111
SURAKANTA TIRUPATHI	17C21A0124
MENDE ANISH	18C25A0115

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ASSISTANT PROFESSOR

HEAD OF THE DEPARTMENT

Mr.P.AVINASH M.Tech  
ASSISTANT PROFESSOR

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Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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Kondapur (Village), Ghatkesar (Mandal), Medchal Dist. Pin – 501301.



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<b>N. VAMSHI KRISHNA</b>	<b>:</b>	<b>16BE1A0113</b>
<b>D. AKHIL</b>	<b>:</b>	<b>17U11A0108</b>
<b>D. PRASHANTH</b>	<b>:</b>	<b>17U11A0109</b>
<b>K. RAJESH REDDY</b>	<b>:</b>	<b>17U11A0116</b>
<b>S. MAHESH</b>	<b>:</b>	<b>18U15A0120</b>

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INTERNAL GUIDE

Ms. G. Prasanna Lakshmi M.Tech

Asst. Professor

  
HEAD OF THE DEPARTMENT

Mr. P. Avinash M.Tech

Asst. professor

EXTERNAL EXAMINER

  
Principal  
Samskruti College of Engg. & Technology,  
Kondapur (V), Ghatkesar (M), R.R. Dist



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submitted by

<b>BHUKYA VAMSHI</b>	<b>: 17C21A0104</b>
<b>NAREDLA HARI KRISHNA</b>	<b>: 17C21A0131</b>
<b>BOLLIGORLA SAIKRISHNA</b>	<b>: 18C25A0113</b>
<b>E RAMA KRISHNA GOUD</b>	<b>: 18C25A0117</b>

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**MS V. SRUJANA M.Tech**  
**ASSISTANT PROFESSOR**

**HEAD OF THE DEPARTMENT**  
**MR. P. AVINASH M.Tech**  
**ASSISTANT PROFESSOR**

**EXTERNAL EXAMINER**

**Principal**  
**Samskruti College of Engg. & Technology**  
**Kondapur (V), Ghatkesar (M), R.R. Dist**



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**CERTIFICATE**

is is to certify that the dissertation entitled "STUDY ON WASTE WATER TREATMENT".

submitted by

<b>BORRA MALLIKHARJUN</b>	<b>: 17C21A0106</b>
<b>GAJULA MAHENDER</b>	<b>: 17C21A0111</b>
<b>BHUKYA VIJAYKUMAR</b>	<b>: 17C21A0105</b>
<b>CHILUMULA CHETAN REDDY</b>	<b>: 17C21A0108</b>
<b>LELELA PRUDVU KUMAR</b>	<b>: 18U15A0133</b>

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**HEAD OF THE DEPARTMENT**  
**MR.P.AVINASH M.Tech**  
**ASSISTANT PROFESSOR**

**EXTERNAL EXAMINER**

**Principal**  
**Samskruti College of Engg. & Technology**  
**Kondapur (V), Ghatkesar (M), R.R. Dist**



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<b>BHUKYA VIJAYKUMAR</b>	<b>: 17C21A0105</b>
<b>CHILUMULA CHETAN REDDY</b>	<b>: 17C21A0108</b>
<b>LELELA PRUDVU KUMAR</b>	<b>: 18U15A0133</b>

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**ASSISTANT PROFESSOR**

**HEAD OF THE DEPARTMENT**  
**MR. P. AVINASH M.Tech**  
**ASSISTANT PROFESSOR**

**EXTERNAL EXAMINER**

**Principal**  
**Samskruti College of Engg. & Technology**  
**Kondapur (V), Ghatkesar (M), R.R. Dist**



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(Approved by AICTE, New Delhi, Affiliated to JNTU, Hyderabad)

Kondapur (Village), Ghatkesar (Mandal), Medchal Dist. Pin - 501301.

Phones: 08415-222491/92



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## CERTIFICATE

This is to certify that the dissertation entitled  
**STUDY ON COMPRESSIVE STRENGTH PROPERTY OF  
CONCRETE USING INDUSTRIAL WASTE**

submitted by

G SAIKUMAR

17U11A0112

K ANIL

17U11A0118

M HEMANTH

17U11A0122

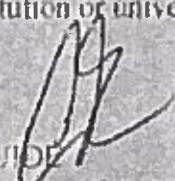
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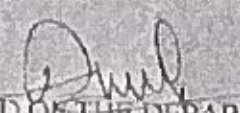
17U11A0128

K HARSHA VARDHAN

18U15A0130

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Mr. P. M. B. RAJ KIRAN NANDURI (PhD)  
ASSISTANT PROFESSOR

  
HEAD OF THE DEPARTMENT  
Mr. P. AVINASH  
ASSISTANT PROFESSOR

EXTERNAL EXAMINER,

  
Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



CELLULAR LIGHT WEIGHT CONCRET BY USING FLY ASH



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CERTIFICATE

This is to certify that the dissertation entitled "CELLULAR LIGHT WEIGHT CONCRETE BY USING FLY ASH".

submitted by

YENGOJU KRANTHI KUMAR : 17C21A0127

DATTHUNADAV MG : 17C21A0109

BHUKYA RAJU : 17C21A0102

BHUKYA SRIKANTH : 17C21A0103

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MSV SRUJANA M.Tech  
ASSISTANT PROFESSOR

HEAD OF THE DEPARTMENT  
MR.P.AVINASH M.Tech  
ASSISTANT PROFESSOR

EXTERNAL EXAMINER

Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist  
Page:ii

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# SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, Affiliated to JNTU, Hyderabad)

Kondapur (Village), Ghatkesar (Mandal), Medchal Dist. Pin - 501301.

Phones: 08415-222491/92

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## CERTIFICATE


This is to certify that the dissertation entitled "Comparative Study of Multistoried Building under Wind Loads using Standard" is

submitted by


L. NAGARAJU	: 18U15A0111
M. CHANDRASEKHARA GHARY	: 18U15A0112
V. SATEESH KUMAR	: 18U15A0122
B. SAI KIRAN GOUD	: 18U15A0125
H. SHASHANK	: 18U15A0129

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INTERNAL GUIDE  
Mr. P.M.B. RAO KIRAN NANDURI (Ph.D.)  
ASSISTANT PROFESSOR

  
HEAD OF THE DEPARTMENT  
Mr. P. AVINASH M.TECH  
ASSISTANT PROFESSOR

EXTERNAL EXAMINER

  
Principal  
Samskruti College of Engg. & Technology,  
Kondapur (V), Ghatkesar (M), R.R. Dist



**SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY**

(Approved by A.I.C.T.E., New Delhi, Affiliated to JNTU, Hyderabad)

Kondapur (Village), Ghatkesar (Mandal), Medchal Dist. Pin - 501301

Phones: 08445-222491/92



**DEPARTMENT OF CIVIL ENGINEERING  
CERTIFICATE**

This is to certify that the dissertation entitled "DESIGN OF FLEXIBLE PAVEMENT BY USING CBR TEST FOR SOAKED AND UNSOAKED SUB"

submitted by

GAREHAM JAGDEESH BABU	(17U15A0106)
KEISHM KISHAN SINGH	(17U15A0130)
MOHAMMED RUMAN	(16U11A0129)

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INTERNAL GUIDE

Mr P.M.B RAJ KIRAN NANDURI

ASSISTANT PROFESSOR

HEAD OF THE DEPARTMENT

Mr P. AVINASH

ASSISTANT PROFESSOR

EXTERNAL EXAMINER

Principal

Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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Kondapur (Village), Ghatkesar (Mandal), Medchal Dist. Pin - 501301



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CERTIFICATE

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N. VAMSHI KRISHNA	:	16BE1A0113
D. AKHIL	:	17U11A0108
D. PRASHANTH	:	17U11A0109
K. RAJESH REDDY	:	17U11A0116
S. MAHESH	:	18U15A0120

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INTERNAL GUIDE

Ms. G. Prasanna Lakshmi M.Tech

Asst. Professor

HEAD OF THE DEPARTMENT

Mr. P. Avinash M.Tech

Asst. professor

EXTERNAL EXAMINER

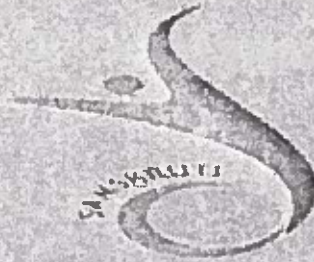
Principal

Samskruti College of Engg. & Technology  
Kondapur (M), Ghatkesar (M), R.R. Dist



# SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to JNTU Hyderabad  
Vidyalaya Ghatkesar (M) Kondapur Medical Forest Rd - 501301  
Phone: 08445-222191, 92  
222192  
222193



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### CERTIFICATE

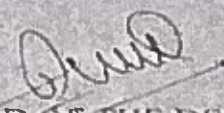
This is to certify that the dissertation entitled "light transmitting concrete"  
submitted by

VILASAGARAM SHRAVAN KUMAR  
SRIPAD SHRU THI  
THATIKONDA ANJALI  
VADLA SANDHYA

-18U15A0124  
-18U15A0119  
-18U15A0121  
-18U15A0139

Bearing the towards partial fulfilment for the award of Bachelor's Degree in Civil engineering department from SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY, is a record of bonafied work done by them under our guidance. The content in this dissertation in full or in parts are not submitted to any other institution or university, for the award of any degree or diploma.

  
INTERNAL GUIDE  
Mr. S. Mahesh M. Tech  
Assistant professor

  
HEAD OF THE DEPARTMENT  
Mr. P. AVINASH M. Tech  
Assistant professor & HOD

EXTERNAL EXAMINER

  
Principal  
Samskruti College of Engg. & Technology  
Kondapur (M), Ghatkesar (M), R.R. Dist

20-11

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KONDAPUR(V), GHATKESAR(M), MEDCHAL DIST.**

**[Approved by AICTE and Affiliated to JNTUH, HYDERABAD]**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING**



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Certified that this is a bonafide record of the dissertation work entitled, "DESIGN OF MODIFIED T-TYPE MULTILEVEL INVERTER FOR ELECTRIC VEHICLE APPLICATION USING MATLAB SIMULINK".done by ADJARLA AJAY KUMAR (18U15A0213), BALLA VAMSHI BHARATH (18U15A0217), KANNAI NIKHIL (18U15A0228),RAVULA ARAVIND (17U11A0211), LAVOORI NAVEEN (18L75A0230), submitted in partial fulfillment of the requirements for the Degree of BACHELOR OF TECHNOLOGY with specialization in ELECTRICAL & ELECTRONICS ENGINEERING from Jawaharlal Nehru Technological University, Hyderabad.

  
Internal Guide

Mr.A.Suresh Kumar M.Tech(Ph.D)

Asso. Professor

Department of EEE

  
Head of the Department

Mr.A.Suresh Kumar M.Tech(Ph.D)

Asso.Professor & Head

Department of EEE

  
Principal

  
Principal  
Samskruthi College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY

KONDAPUR(V), GHATKESAR(M), MEDCHAL DIST.

[Approved by AICTE and Affiliated to JNTUH, HYDERABAD]

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Certified that this is a bonofide record of the dissertation work entitled, "DESIGN AND IMPLEMENTATION OF MULTILEVEL INVERTER TOPOLOGIES BASED ON FLEXABLE TRANSFORMER", done by A.VIGNESH (18U15A0214), CH.CHANDRA MOULI(18U15A0219),K.THARUN(18U15A0226),P.MAHESH(18U15A0238),S.ABHISHEK (18U15A0242) submitted in partial fulfillment of the requirements for the Degree of BACHELOR OF TECHNOLOGY with specialization in ELECTRICAL & ELECTRONICS ENGINEERING from Jawaharlal Nehru Technological University, Hyderabad.

Internal Guide

Mr.K.SRIDHAR M.Tech

Asst.Professor

Department of EEE

Head of the Department

Mr.A.Suresh Kumar M.Tech(Ph.D)

Asso.Professor

Head Department of EEE

PRINCIPAL

Principal

Samskruti College of Engg. & Techno.  
Kondapur (V), Ghatkesar (M), R.R. Dist



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KONDAPUR(V), GHATKESAR(M), MEDCHAL DIST.**

**[Approved by AICTE and Affiliated to JNTUH, HYDERABAD]**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



**CERTIFICATE**

Certified that this is a bonafide record of the dissertation work entitled, "**DESIGN AND IMPLEMENTATION OF DC LINK VOLTAGE REGULATION STRATEGY FOR GRID CONNECTED CONVERTERS**", done by **BASWARAJU KARTHIK (18U15A0218), CHALLA AVINASH (17U11A0204), CHOUDARI SAI VINODH (18U15A0224), JATOTH ANUSHA (18U15A0224), MUDDAMALLA VINAY KUMAR (18L75A0215)** submitted in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** with specialization in **ELECTRICAL & ELECTRONICS ENGINEERING** from Jawaharlal Nehru Technological University, Hyderabad.

Internal Guide

**Mrs.A. Swathi Gupta M. Tech**

**Asst. Professor**

**Department of EEE**

Head of the Department

**Mr.A. Suresh Kumar M. Tech (Ph.D.)**

**Asso. Professor & Head**

**Department of EEE**

**PRINCIPAL.**

**Principal**  
**Samskruthi College of Engg. & Technology**  
**Kondapur (V), Ghatkesar (M), R.R. Dist**

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**KONDAPUR(V), GHATKESAR(M), MEDCHAL DIST.**  
**[Approved by AICTE and Affiliated to JNTUH, HYDERABAD]**

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**ENGINEERING**



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Internal Guide

**Mr A.SURESH KUMAR** M.Tech(ph.d)  
Assoc.Professor  
Department of EEE

  
Head of the Department

**Mr.A.Suresh Kumar** M.Tech(Ph.D)  
Assoc.Professor & Head  
Department of EEE

  
PRINCIPAL

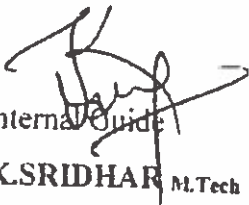
  
**Principal**  
Samskruthi College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dis.

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[Approved by AICTE and Affiliated to JNTUH, HYDERABAD]  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**




**CERTIFICATE**

Certified that this is a bonafide record of the dissertation work entitled, "DESIGN AND IMPLEMENTATION OF MULTI-LEVEL SINGLE PHASE CONVERTER WITH TWO DC LINKS USING MATLAB", done by A.SRILEKHA (18U15A0201), R.SHARATH CHANDRA (18U15A0241) P.VAMSHI KRISHNA (18U15A0210), K.RAMAGOPALAM (18U15A0227), F.HUSSAIN SYED (17U11A0212) submitted in partial fulfillment of the requirements for the Degree of BACHELOR OF TECHNOLOGY with specialization in ELECTRICAL & ELECTRONICS ENGINEERING from Jawaharlal Nehru Technological University, Hyderabad.

  
Internal Guide  
Mr.K.SRIDHAR M.Tech

Asst. Professor  
Department of EEE

  
Head of the Department  
Mr.A.Suresh Kumar M.Tech(Ph.D)  
Asso.Professor  
Head Department of EEE

  
Principal

  
Principal  
Samskruthi College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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**KONDAPUR(V), GHATKESAR(M), MEDCHAL DIST.**  
[Approved by AICTE and Affiliated to JNTUH, HYDERABAD]  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



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Certified that this is a bonafide record of the dissertation work entitled, “**DESIGN OF SOLAR POWERED INDUCTION MOTOR DRIVE FOR PUMPING WITH REDUCED SENSORS**”, done by **KASAM AKHIL (18U15A0229)**, **PURAMOLLA SUSHMITHA (17U11A0210)**, **ANNEBOINA RAJU (18U15A0215)**, **PEDDAGONI VAMSHI (18U15A0239)**, **JARPULA CHANDHULAL (18L75A0212)** submitted in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** with specialization in **ELECTRICAL & ELECTRONICS ENGINEERING** from Jawaharlal Nehru Technological University, Hyderabad.

  
Internal Guide

**Mrs.B.SRAVANTHI**M.Tech(PE&ED)

Asst. Professor

Department of EEE


  
Head of the Department

**Mr.A.Suresh Kumar**M.Tech(Ph.D)

Asso .Professor& Head

Department of EEE

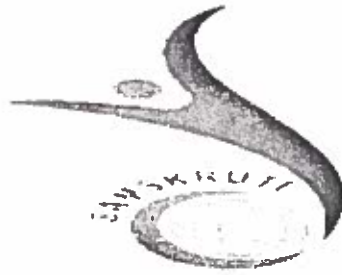
  
PRINCIPAL.

  
Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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(Affiliated to JNTUH, Approved by AICTE & Accredited by NAAC)

Kondapur(V), Ghatkesar(M), Medchal(D), Hyderabad-501301

Department of Electrical & Electronics Engineering



**CERTIFICATE**

This is to certify that the project entitled "A NEW STEP-UP SWITCHED CAPACITOR VOLTAGE BALANCING CONVERTER FOR NPC MULTILEVEL INVERTER-BASED SOLAR PHOTO-VOLTAIC SYSTEM " being submitted by T.SAIGANESH (18U15A0212), B.SAIKUMAR (18U15A0203), B.NISHMA (18U15A0204), J.SRIKANTH (18U15A0225), B.SHIVA SHANKAR (18L75A0219) in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electrical and Electronics Engineering, to the Samskruti College of Engineering and Technology, Affiliated to JNTU Hyderabad is a bonafide work carried out by him under my guidance and supervision.

INTERNAL GUIDE:  
Mr.A.SURESHKUMAR M.Tech(Ph.D)  
Assoc. Professor  
Department of EEE

HEAD OF THE DEPARTMENT  
Mr. A.SURESH KUMAR M.Tech(Ph.D)  
Assoc. Professor  
Department of EEE

PRINCIPAL

Principal

Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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KONDAPUR(V), GHATKESAR(M), MEDCHAL DIST.**

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Internal Guide

**Mrs. B. SRAVANTHI** M.Tech (PE & ED)

*Asst. Professor*

Department of EEE

Head of the Department

**Mr. A. Suresh Kumar** M.Tech (Ph.D)

*Asso. Professor & Head*

Department of EEE

**PRINCIPAL:**

**Principal**

**Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist**

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Kondapur (V), Ghatkesar (M), Medchal (District), Hyderabad - 501301

Department of Electrical and Electronics Engineering



## CERTIFICATE

This is to certify that the major Project report entitled "TEMPERATURE MONITORING AND CONTROLLING SYSTEM USING MICROCONTROLLER" is being submitted by A.KRANTHI KUMAR (16U11A0202), P.NIRAJ KUMAR (17U15A0206), V.SWAPNA (17U15A0209), B.USHA (17U15A0214), S.D.RAJU (17U15A0215) in

partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY to JNTU Hyderabad in ELECTRICAL AND ELECTRONICS ENGINEERING. This record is a bonafide work carried out by them under my guidance and supervision. The results embodied in this report have not been submitted to any other university for the award of any degree.

  
UNDER GUIDANCE

Mrs. B.SRAVANTHI

M.Tech

Assistant Professor  
Department of EEE.


  
HEAD OF DEPARTMENT

Mr. A.SURESH KUMAR

M.Tech,(Ph.D)

Associate professor,  
Head of the Department (EEE).

  
PRINCIPAL

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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**KONDAPUR(V), GHATKESAR(M), MEDCHAL DIST.**  
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Internal Guide

**Mrs.A.SWATHI GUPTA**M.Tech

Asst. Professor

Department of EEE

Head of the Department

**Mr.A.Suresh Kumar**M.Tech(Ph.D)

Asso.Professor & Head

Department of EEE

PRINCIPAL

**Principal**  
**Samskruthi College of Engg. & Technology**  
**Kondapur (V), Ghatkesar (M), R.R. Dist**



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TECHNOLOGY**

(Affiliated to JNTUH, Approved by AICTE & Accredited by NAAC)

Kondapur (V), Ghatkesar (M), Medchal (D), Hyderabad-501301 2020 -


2021


Department of Electrical & Electronics Engineering



**CERTIFICATE**

This is to certify that the project entitled "IMPLEMENTATION OF RENEWABLE ENERGY AND DIESEL GENERATOR BASED ELECTRIC VEHICLE CHARGING STATION" being submitted by LEKKITA SHREE NEKKONDA(18U15A0208), LAVUDIYA PRAVEEN(18U15A0230), KAPPALA SAIKUMAR(17U11A0206), MANPATI SAIRAM(18U15A0233) in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Electrical And Electronics Engineering, to the Samskruti College of Engineering and Technology, Affiliated to JNTU Hyderabad is a bonafide work carried out by him/her under my guidance and supervision.

  
INTERNAL GUIDE  
Mr. B. RAJU M Tech  
Asst. Professor  
Department of EEE

  
HEAD OF THE DEPARTMENT  
Mr. A.SURESH KUMAR M.Tech(PhD)  
Assoc. Professor  
Department of EEE

  
PRINCIPAL

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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**KONDAPUR(V), GHATKESAR(M), MEDCHAL DIST.**  
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**ENGINEERING**



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Internal Guide

**Mr.A.SURESH KUMAR**M.Tech(ph.d)  
Assoc.Professor  
Department of EEE

  
Head of the Department

**Mr.A.Suresh Kumar**M.Tech(Ph.D)  
Assoc.Professor & Head  
Department of EEE

  
PRINCIPAL

  
**Principal**  
Samskruthi College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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ENGINEERING

SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY

KONDAPUR (V), GHATKESAR (M), MEDCHAL (D)

(AFFILIATED TO JNTU, Hyderabad)



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This is to certify that the dissertation entitled "DESIGN OF ADVANCED SMART MEDICINE BOX FOR OLD PEOPLE WITH VOICE ALERT USING ARDUINO" is being submitted by P.RACHANA(17U11A0443), T.NIKHILA(18U15A0408), T.SAINATH(17U11A0474), A.DEEKSHITHA(18U15A0409), B.UDAYKUMAR (17U11A0459) in partial fulfillment of the requirement for award of the degree of Bachelor of Technology in Electronics & Communication Engineering to the Jawaharlal Nehru Technology University as a record of confined work carried out under our guidance and supervision.

Guide's Signature  
Mr. G.H.RANJITH

M.Tech  
Asst. Professor

Signature of Head of the Dept  
Dr. SRINIVASULU  
M.Tech.,  
B.E., M.E., Ph.D.

HOD & Professor

  
PRINCIPAL

Dr. J. GOVARDHAN, M.E., Ph.D.

Place: Kondapur

Date:

  
Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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(Approved By AICTE, New Delhi Affiliated to J.N.T.U Hyderabad)  
Kondapur(V), Ghatkesar(M), Medchal (District), Hyderabad - 501301  
2020-2021


Department of Electronics & Communication Engineering




CERTIFICATE

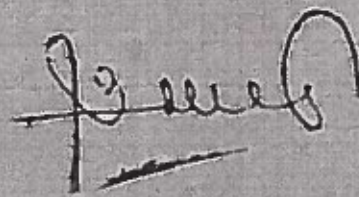
This is to certify that the technical seminar report entitled "WIRELESS GESTURE CONTROLLED ROBOT" is being submitted by M. ROJA (17C21A0414) in partial fulfilment of the requirements for the award of **BACHELOR OF TECHNOLOGY** to JNTU Hyderabad in **ELECTRONICS & COMMUNICATION ENGINEERING**. This record is a bonafide work carried out by them under my guidance and supervision. The results embodied in this report have not been submitted to any other university for the award of any degree.

UNDER THE GUIDANCE OF


  
26/6/21  
Mr. V. SANDEEP KUMAR,  
M.Tech.,(Ph.D),  
Assistant Professor.

HEAD OF THE DEPARTMENT

  
Mr. M. GREENIVASULU,  
M.Tech.,Ph.D,  
Head of the Department.



ii

  
Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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(Approved By AICTE, New Delhi Affiliated to J.N.T.U Hyderabad) Kondapur (V), Ghatkesar (M), Medchal  
(District), Hyderabad - 501301

Department of Electronics & Communication Engineering



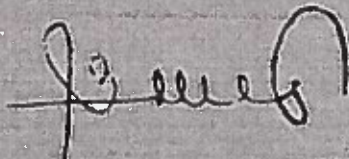
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It is to certify that the technical seminar report entitled "DESIGN OF GSM BASED ADVANCED REMOTE CONTROLLED AC MOTOR FOR AGRICULTURE FIELDS" is being submitted by

P. HEENA	(17U11A0440)
G. SANTHOSHI	(17U11A0422)
S. SWETHA	(17U11A0449)
M. ROHITH RAJ	(17U11A0471)

It is a full fulfillment of the requirements for the award of Bachelor of Technology to JNTU Hyderabad in **ELECTRONICS AND COMMUNICATION ENGINEERING**. This record is a bonafide work carried out by under my guidance and supervision. The results embodied in this report have not been submitted to any other university for the award of any degree.

**UNDER GUIDANCE**  
G. SUSMITHA  
M.Tech.  
Assistant Professor

  
EXTERNAL EXAMINAR

**HEAD OF DEPARTMENT**  
Mr. M. SREENIVASULU  
M.Tech(Ph.D)

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist





# SANSKRUTI

## COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE & Affiliated to JNTU Hyderabad  
Ghatkesar, Medchal Dist, Hyderabad - 501301, TELANGANA

### CERTIFICATE

This is to certify that the dissertation work entitled **BLUETOOTH BASED ADVANCED SMART WHEEL CHAIR FOR PHYSICALLY DISABLED USING ARDUINO** being submitted by P. TUSHITHA, K.SAI SHANKER, B.TARUN,P.SHRAVYA bearing Roll Numbers 17U11A0441, 17U11A0425, 17U11A0410 and 17U11A0439 respectively, in partial fulfillment for the degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic year 2020-2021.

Certified further, to the best of our knowledge that the work reported is not a part of any other project on the basis of which a degree or an award has been given on an earlier occasion to any other candidate. The results have been verified and found to be satisfactory.

Internal guide:

Mrs. K. ANUSHA M.Tech,

ASSISTANT PROFESSOR (ECE)

Head of Department

Mr. M. Steenivasulu

PROFESSOR & HOD

External Examiner

Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.N. Dist






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**COLLEGE OF ENGINEERING & TECHNOLOGY**  
Approved by AICTE & Affiliated to JNTU Hyderabad  
Ghatkesar, Medchal Dist, Hyderabad - 501301, TELANGANA

## CERTIFICATE

This is to certify that the dissertation work entitled "Design and implementation of IoT based advanced railway station system" being submitted by CH.Naveen, R.Sravani, P.Saikiran, M.Swetha bearing Roll Numbers 17U11A0415, 17U11A0447, 17U11A0442 and 17U11A0433 respectively, in partial fulfillment for the degree of Bachelor of Technology in "ELECTRONICS AND COMMUNICATION ENGINEERING" during the academic year 2020-2021.


Certified further, to the best of our knowledge that the work reported is not a part of any other project on the basis of which a degree or an award has been given on an earlier occasion to any other candidate. The results have been verified and found to be satisfactory.

  
Internal guide:

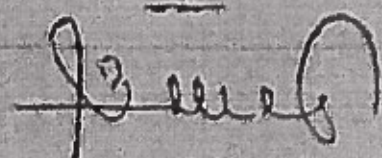
Mrs. Sangeetha Balne ,M.Tech.(Ph.D).

ASSISTANT PROFESSOR (ECE)

Head of Department

  
Mr. M. Sreenivasulu

PROFESSOR & HOD

  
External Examiner

  
Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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Kondapur (V), Ghatkesar (M), Medchal (District), Hyderabad - 501301


Department of Electronics & Communication Engineering




## CERTIFICATE

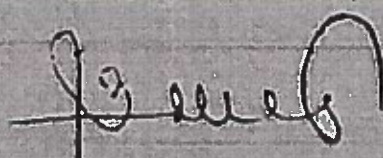
This is to certify that the major project report entitled "DESIGN AND IMPLEMENTATION OF ADVANCED WOMEN SAFETY SYSTEM USING GSM AND GPS" is being submitted by CHSAHITI , K.LAVANYA , B.PRUDHVI VARMA , CH.OMKAR in partial fulfillment of the requirements for the award of BACHELOR OF TECHNOLOGY to JNTU Hyderabad in ELECTRONICS AND COMMUNICATION ENGINEERING. This record is a bonafide work carried out by them under my guidance and supervision. The results embodied in this report have not been submitted to any other university for the award of any degree.

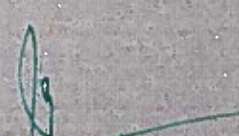
INTERNAL GUIDE

  
Miss R. ANUJA  
M.Tech.  
Assistant Professor.

HEAD OF DEPARTMENT

  
Sir M. SRINIVASULU M.Tech.,  
B.E., M.E., Ph.D.  
HOD & Professor

  
EXTERNAL EXAMINER

  
Principal

Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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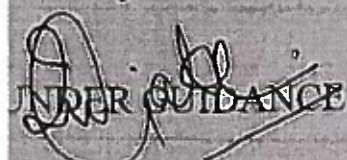
(Approved By AICTE, New Delhi Affiliated to J.N.T.U Hyderabad)  
Kondapur (V), Ghatkesar (M), Medchal (District), Hyderabad - 501301

Department of Electronics & Communication Engineering



## CERTIFICATE

This is to certify that the major project report entitled " DESIGN AND IMPLEMENTATION of ADVANCED VEHICLE SAFETY MONITORING AND ALERTING SYSTEM " is being submitted by V.PRATHYUSHA (17U11A0457), M. PRADEEPTHI (17U11A0435), T.NIHARIKA (17U11A0453), H. SATWIKA (17U11A0419), B.SAI KUMAR (16U11A0410) in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY to JNTU Hyderabad in ELECTRONICS AND COMMUNICATION ENGINEERING. This record is a bonafide work carried out by them under my guidance and supervision. The results embodied in this report have not been submitted to any other university for the award of any degree.

  
UNDER GUIDANCE

Mrs. Y. JALAJAKSHI  
M.Tech, (Ph.D.)  
Assistant Professor,  
Department of BCE

  
HEAD OF DEPARTMENT

Dr. SREENIVASLU M.Tech.,  
B.E., M.E., Ph.D.

  
HOD & Professor

EXTERNAL EXAMINAR

  
Principal

Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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Department of Electronics & Communication Engineering



**CERTIFICATE**

This is to certify that the major project report entitled "DESIGN AND IMPLEMENTATION OF TRAFFIC PRIORITY SYSTEM FOR EMERGENCY VEHICLES USING ARDUINO" is being submitted by A K SAI SRAVAN, KHUSH SRIVASTAV, RAHUL PATNAIK, S SAI VINAY REDDY in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY to JNTU Hyderabad in ELECTRONICS AND COMMUNICATION ENGINEERING. This record is a bonafide work carried out by them under my guidance and supervision. The results embodied in this report have not been submitted to any other university for the award of any degree.

INTERNAL GUIDE

Mr. D NARESH M.Tech.,  
Assistant Professor.

EXTERNAL EXAMINER

HEAD OF DEPARTMENT

Dr. SRINIVASULU M.Tech.,  
B.E, M.E, Ph.D.  
HOD & Professor

Principal

Samskruti College of Engg. & Technology,  
Kondapur (V), Ghatkesar (M), R.R. Dist



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2020-2021


Department of Electronics & Communication Engineering



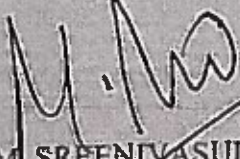
CERTIFICATE


This is to certify that the technical seminar report entitled "WIRELESS GESTURE CONTROLLED ROBOT" is being submitted by G. JANE GLADYS (17C21A0406) in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY to JNTU Hyderabad in ELECTRONICS & COMMUNICATION ENGINEERING. This record is a bonafide work carried out by them under my guidance and supervision. The results embodied in this report have not been submitted to any other university for the award of any degree.

UNDER THE GUIDANCE OF

  
Mr. V. SANDEEP KUMAR,  
M.Tech.,(Ph.D),  
Assistant Professor.

HEAD OF THE DEPARTMENT

  
Mr. M. SREENIVASULU,  
M.Tech.,Ph.D,  
Head of the Department.



  
Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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Kondapur (V), Ghatkesar (M), Medchal (District), Hyderabad - 501301

Department of Electronics & Communication Engineering



## CERTIFICATE

This is to certify that major project report entitled "DESIGN AND IMPLEMENTATION OF DEVICE CONTROLLING WITH BILL GENERATION SYSTEM USING IOT" being submitted by

E. SAIKUMAR	(18U15A0405)
P. SUSHMITHA	(18U15A0414)
K. BRAHMA REDDY	(17U11A0464)
K.L. BALA SHOWRY	(17U11A0465)

In partial fulfilment for the award of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING to JNTU Hyderabad, is a record of bonafide work carried out under my guidance and supervision.

The results embodied in this project report have not been submitted to any other university or Institute for the award of any Degree.

UNDER GUIDANCE,  
Mr. CH. RANJITH M.Tech.,  
Assistant Professor

HEAD OF DEPARTMENT  
Dr. SREENIVASULU M.Tech.,  
HOD & Professor

EXTERNAL EXAMINER

Principal

Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Medchal



20-21

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(Approved by AICTE, New Delhi, Affiliated to J.N.T.U, HYDERABAD)  
Kondapur (V), Ghatkesar (M), Medchal Malkajgiri. (Dist)  
(2020-2021)



**CERTIFICATE**

This is certify the project entitled "Design and analysis of spindle in milling machine" is being submitted by P.Mahipal (17U11A0319), M.Venu(17U11A0313), MD.Aamer (17U11A0314), B.Ganesh (17U11A0323) in partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the JNTU, HYDERABAD. This record is a bonafied work carried out by him under my guidance and supervision. The result embodied in this project report has not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide's signature

Mr. Gopi Chand Boosa  
Asst.Professor  
Dept.of. MECH

Signature of Head of the Dept.

Mr. Gopi Chand Boosa  
Head of the Dept.  
Dept.of MECH

External Examiner

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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Kondapur (V), Ghatkesar (M), Medchal Malkajgiri. (Dist).

(2020-21)



**CERTIFICATE**

This is certify the project entitled “ DESIGN AND OPTIMISATION WITH CO  
RELATION PARAMETERS TO TEST PROPELLE R” Is being submitted by

**G.Nikhil sai(18U15A0324)**

In partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering  
to the JNTU, HYDERABAD. This record is a bonafide work carried out by him under my  
guidance and supervision. The result embodied in this project report has not been submitted  
to any other university or institute for the award of any degree or diploma.

Internal Guide's signature

Mr S.Naresh  
Asst.Professor  
Dept. of. MECH

Signature of the  
Head Of the  
Dept.

Gopi Chand Boosa  
HOD  
Dept. of. MECH

External Examiner

  
**Principal**  
Samskruti College of Engg. & Technolog;  
Kondapur (V), Ghatkesar (M), R.R. Dist


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SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY  
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Kondapur (V), Ghatkesar (M), Medchal Malkajgiri. (Dist).  
(2020-21)



**CERTIFICATE**

This is certify the project entitled **FABRICATION OF HOME MADE SOLAR AIR COOLER** .”Is being submitted by B.HUSSAIN (18U15A0304) G.VENU KUMAR (18U15A0307) K.KRISHNA SAI (18U15A0308) V.MAHESH (16L75A0306) In partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the JNTU, HYDERABAD. This record is a bonafide work carried out by him under my guidance and supervision. The result embodied in this project report has not been submitted to any other university or institute for the award of any degree or diploma.

External Examiner

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist.

Internal guide s Singnature

M.SWARNA  
Asst. Professor  
Dept. of. MECH

Signature of the Head Of the Dept.

GOPICHAND BOOSA  
HOD  
Dept. of. MECH

DEPARTMENT OF MECHANICAL ENGINEERING

SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY

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Kondapur (V), Ghatkesar (M), Medchal Malkajgiri. (Dist).

(2020-21)



**CERTIFICATE**

This is certify the project entitled "Thermal Analysis And Execution Of Heat Resistance Material To Overhauling Of Engine Cylinder From Internal Heat Generation" Is being submitted by V.pramod(18U15A0319), S.nagashiva(16U11A0322), N.saikiran(18U15A0315

In partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the JNTU, HYDERABAD. This record is a bonafide work carried out by him under my guidance and supervision. The result embodied in this project report has not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide's signature

Mr.B.Venkatesh  
Asst.Professor  
Dept. of. MECH

Signature of the Head  
Of the Dept.

Gopi Chand Boosa  
HOD  
Dept. of. MECH

External Examiner

  
**Principal**

**Samskruti College of Engg. & Technology**  
Kondapur (V), Ghatkesar (M), R.R. Dist



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Kondapur (V), Ghatkesar (M), Medchal Malkajgiri. (Dist.)  
(2020-2021)



**CERTIFICATE**

This is certify the project entitled "Design and Analysis of Isotropic and Orthotropic Material Propeller Blade for Aircraft" is being submitted by N. Rajender (18U15A0314), CH. Vidyarthi (18U15A0323), G. Raviteja (18U15A0325), CH. Madhukar Goud (16891A0316). in partial fulfillment for the award of **Bachelor of Technology in Mechanical Engineering** to the **JNTU, HYDERABAD**. This record is a bonafied work carried out by him under my guidance and supervision. The result embodied in this project report has not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide's signature

Mrs. K. Anusha  
Asst. Professor  
Dept. Of. MECH

Signature of the Head of the Dept.

Gopi Chand Boosa  
HOD  
Dept. Of MECH

External Examiner

  
**Principal**  
Samskruti College of Engg. & Technology,  
Kondapur (V), Ghatkesar (M), R.R. Dist

DEPARTMENT OF MECHANICAL ENGINEERING  
SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY  
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Kondapur (V), Ghatkesar (M), Medchal Malkajgiri. (Dist). (2020-21)



## CERTIFICATE

This is certify the project entitled “ Design and simulation of automobile active suspension system ” Is being submitted by Bandi Sampath (18L75A0328) and Balasani Raju (16L75A0308)

In partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the JNTU, HYDERABAD. This record is a bonafide work carried out by him under my guidance and supervision. The result embodied in this project report has not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide Signiture

Dept  
Mr.s.naresh  
Asst.Professor  
Dept. of. MECH

Signiture Of The Head Of The

Gopi chand boosa  
HOD  
Dept. of. MECH

External Examiner

**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



DEPARTMENT OF MECHANICAL ENGINEERING

SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY  
(Approved by AICTE, New Delhi, Affiliated to J.N.T.U, HYDERABAD)  
Kondapur (V), Ghatkesar (M), Medchal Malkajgiri. (Dist)  
(2020-2021)



**CERTIFICATE**

This is certify the project entitled "Modeling and Analysis of multi-plate clutch" is being submitted by Md.Amzad (18U15A0313), O. Anil Kumar (18U15A0316), K.Somesh Reddy (18U15A0328), S.Raj Kumar (18U15A0330) in partial fulfillment for the award of **Bachelor of Technology in Mechanical Engineering** to the **JNTU, HYDERABAD**. This record is a bonafied work carried out by him under my guidance and supervision. The result embodied in this project report has not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide's signature

Mr. Gopi Chand Boosa  
Asst. Professor, HOD  
Dept. of MECH

Signature of the Head of the Dept.

Mr. Gopi Chand Boosa  
HOD  
Dept. of MECH

External Examiner

  
Principal  
Samskruti College of Engg. & Techno.  
Kondapur (V), Ghatkesar (M), R.R. Dist

DEPARTMENT OF MECHANICAL ENGINEERING

SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to J.N.T.U, HYDERABAD)

Kondapur (V), Ghatkesar (M), Medchal-Malkajgiri. (Dist).

(2020-21)



**CERTIFICATE**

This is to certify the project entitled "VIBRATION ANALYSIS AND TOPOLOGY OPTMIZATIONOF HERMITICALLY SEALED RECIPROCATING COMPRESSOR HOUSING" Is being submitted by G. SANGAMESHWAR (17U11A0324), M. RANJITH KUMAR (18U15A0312), J. NAVEEN (18U15A0326), K. NEERAJ REDDY (18U15A0327) In partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the JNTU, HYDERABAD. This record is a bonafide work carried out by him under my guidance and supervision. The result embodied in this project report has not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide's signature  
Mr. S. Veerendra Prasad  
(Ph.D.)  
Dept. of. MECH

Signature of the Head Of the Dept.  
Mr. Gopi Chand Boosa  
HOD  
Dept. of. MECH

External Examiner

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

(ii)



DEPARTMENT OF MECHANICAL ENGINEERING  
SANSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY  
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Kondapur (V), Ghatkesar (M), Medchal Malkajgiri. (Dist)  
(2020-2021)



**CERTIFICATE**

This is certify the project entitled "Design and Analysis of rocker arm" is being submitted by K.Sai Vikas (18U15A0310), K.Vinay Kumar (18U15A0311), S.Anil (18U15A0317), T.Suresh Kumar (18U15A0318) in partial fulfillment for the award of **Bachelor of Technology in Mechanical Engineering** to the **JNTU, HYDERABAD**. This record is a bonafied work carried out by him under my guidance and supervision. The result embodied in this project report has not been submitted to any other university or institute for the award of any degree ordiploma.

Internal Guide's signature

Mr. Gopi Chand Boosa  
Asst.Professor,HOD  
Dept.of. MECH

Signature of the Head of the Dept.

Mr.Gopi Chand Boosa  
Asst Professor HOD  
Dept.of MECH

External Examiner

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

DEPARTMENT OF MECHANICAL ENGINEERING  
SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY  
(Approved by AICTE, New Delhi, Affiliated to J.N.T.U, HYDERABAD)  
Kondapur (V), Ghatkesar (M), R.R. (Dist.).  
(2020-21)



**CERTIFICATE**

This is certifying the project entitled "TRANSIENT THERMAL ANALYSIS AND POTENTIAL OF ANGULAR FINES WITH DIVERSE MATERIAL" Is being submitted by AJMEERA DHANRAJ (17U11A0301), BELIDE LOKESH (17U11A0302), DARNABOINA MANISH RAJ (17U11A0305) and YAMAGONI RAMYA (18L75A0320) in partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the JNTU, HYDERABAD. This record is a bonafide work carried out by him under my guidance and supervision. The result embodied in this project report has not been submitted to any other university or institute for the award of any degree.

Internal Guide's signature

Mr. B. VENKATESH

Signature of the Head  
Of the Dept.

Mr. GOPI CHAND BOOSA

External Examiner

  
Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



DEPARTMENT OF MECHANICAL ENGINEERING  
SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY  
(Approved by AICTE, New Delhi, Affiliated to J.N.T.U, HYDERABAD)  
Kondapur (V), Ghatkesar (M), Medchal Malkajgiri. (Dist.).  
(2020-21)



**CERTIFICATE**

This is certifying the project entitled "CFD ANALYSIS ON PIN-FIN WATER BLOCK." Is being submitted by S. RAJESH KUMAR (17U11A0321), G. Vishnu Vardhan Reddy (17U11A0307), K. Shiva prasad Reddy (17U11A0311), K. Vinith (17U11A0325). In partial fulfilment for the award of Bachelor of Technology in Mechanical Engineering to the JNTU, HYDERABAD. This record is a bonafide work carried out by him under my guidance and supervision. The result embodied in this project report has not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide's signature

Mr. S. VEERENDRA PRASAD  
Asst. Professor  
Dept. of. MECH

Signature of the Head  
Of the Dept.  
Gopi Chand Boosa  
HOD  
Dept. of. MECH

External Examiner

**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist.

20-21

**DEPARTMENT OF MECHANICAL ENGINEERING  
SAMSKRUTI COLLEGE OF ENGINEERING AND  
TECHNOLOGY**

(Approved by AICTE, New Delhi, Affiliated to J.N.T.U-HYD, Approved by AICTE)  
KONDAPUR (V), GHATKESAR (M), MEDCHAL (Dist.), TELANGANA-501301.  
(2017-2021)



**CERTIFICATE**

This is to certify that Project report entitled "THERMAL AND FLUID FLOW ANALYSIS IN A HEAT SINK" is being submitted by CH. VENUGOPAL(17U11A0304), B. ANUSHA(18L75A0307), C.SRAVANI(18L75A0308) and G. SRIKANTH(18L75A0323) in partial fulfillment of the requirements for the award of BACHELOR OF TECHNOLOGY to JNTU Hyderabad in DEPARTMENT OF MECHANICAL ENGINEERING. This Project is a bonafide work carried out by her/him under my guidance and supervision. The results embodied in this report have not been submitted to any other university for the award of under graduation.

**GUIDE**

Mrs. ANUSHA,  
Assistant Professor

**HEAD OF THE DEPARTMENT**

Mr. GOPI CHAND BOOSA  
M. Tech, Associate Professor

**PLACE:**

**DATE:**

**EXAMINAR**

II

  
Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

DEPARTMENT OF MECHANICAL ENGINEERING  
SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY  
(Approved by AICTE, New Delhi, Affiliated to J.N.T.U, HYDERABAD, Accredited by NAAC)  
Kondapur (V), Ghatkesar (M), Medchal (Dist).

(2017-2021)



## CERTIFICATE

This is to certify the project entitled "LINEAR LAYER ANALYSIS OF DISC BRAKE WITH FUNCTIONALLY GRADED MATERIALS USING FEA TECHNIQUE" is being submitted by

POTUGANTI MEGHANA REDDY

(17U11A0318)

K.V.SAI PRAKASH

(17U11A0309)

KORICHERLA ANURUDH RAJ VARMA


(17U11A0312)

TEJAVATH SANDHYA

(18L75A0311)

In partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY, KONDAPUR. This record is a bonafide work carried out by him under my guidance and supervision. The result embodied in this project report has not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide  
(Mrs. SWARNA)

  
**Principal**  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist  
Head of the Department.  
(Mr. GOPI CHAND BOOSA)



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SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY  
(Approved by AICTE, New Delhi, Affiliated to J.N.T.U-HYD, Approved by AICTE)  
KONDAPUR (V), GHATKESAR (M), MEDCHAL (Dist.), TELANGANA-501301.

(2018-2021)



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This is to certify that Project report entitled "MODELLING AND COMPARATIVE ANALYSIS OF INTERNAL COMBUSTION ENGINE PISTON" is being submitted by

B.Pawan Kalyan	18U15A0303
A.Hemanth	18U15A0301
B.Laxmi Narayana	18U15A0302
B.Manikumar	18U15A0305

in partial fulfillment of the requirements for the award of BACHELOR OF TECHNOLOGY to JNTU Hyderabad in DEPARTMENT OF MECHANICAL ENGINEERING. This Project is a Bonafide work carried out by her/him under my guidance and supervision. The results embodied in this report have not been submitted to any other university for the award of under graduation.

**GUIDE**  
Mr. SILIVERI NARESH  
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**HEAD OF THE DEPARTMENT**  
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**PLACE:**  
**DATE:**

**EXAMINAR**

  
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**A MAJOR PROJECT REPORT**  
**ON**  
**DESIGN AND ANALYSIS OF PISTON WEIGHT OPTIMIZATION BY FEM USING ADVANCED COMPOSITE MATERIALS**

Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**  
For the partial Fulfilment of the Requirement for the Award of the Degree of

**BACHELOR OF TECHNOLOGY**

In

**MECHANICAL ENGINEERING**

SUBMITTED BY

<b>G. MALLESWARI</b>	<b>18L75A0302</b>
<b>B. SURESH</b>	<b>18L75A0302</b>
<b>G. LAKSHMAN</b>	<b>18L75A0310</b>
<b>K. SREEDHAR REDDY</b>	<b>18L75A0318</b>

UNDER THE GUIDANCE OF

**Mr. R. PANDU**  
Assistant Professor  
Mechanical Engineering Department



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Guide's Signature

Mr.K.VAMSHEE KRISHNA

M. Tech

Asst. Professor

Dept. of CSE



Place: Kondapur

Date: 28/06/2021



Signature of Head of the Dept

Mr.K.VAMSHEE KRISHNA

M. Tech

Head of the Department

Asst. Professor Computer Science Engineering

Samskruti College of Engineering and Technology

Dept. of CSE



PRINCIPAL

Dr. J.GOVARDHAN, M.E, Ph.D.

Head of the Department

Principal  
Computer Science Engineering  
Samskruti College of Engg. & Technology  
Samskruti College of Engineering and Technology  
Kondapur (V), Ghatkesar (M), Medchal (D)



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Samskruti College of Engg. & Technology  
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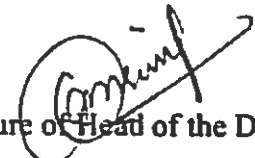
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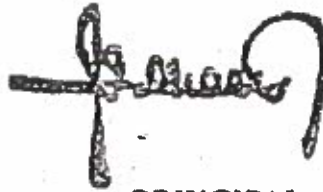


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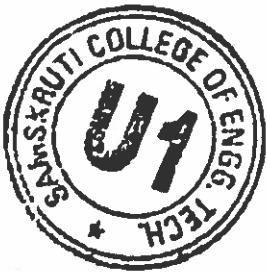
  
Guide's Signature  
P.YAMUNA  
M. Tech  
Asst. Professor

  
Signature of Head of the Dept  
Mr.K.VAMSHEE KRISHNA  
M. Tech  
Head of the Department  
Asst. Professor  
Computer Science Engineering  
Dept. of CSE, College of Engineering and Technology




PRINCIPAL

Dr. J.GOVARDHAN, M.E, Ph.D.  
Principal  
Samskruthi College of Engg. & Technology  
Kondapur(V), Ghatkesar(M), Medchal (D)



Place: Kondapur

Date: 28/6/2021

  
Principal  
Samskruthi College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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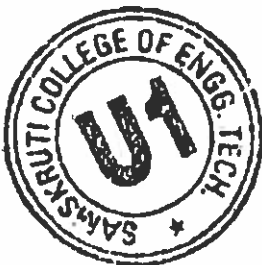
Guide Signature

Ms. P.Regina  
M. Tech  
Asst. Professor  
Dept. of CSE

Signature of Head of the Dept

Mr.K.VAMSHEE KRISHNA  
M. Tech

Asst. Professor  
Head of the Department  
Dept. of CSE Computer Science Engineering  
Samskruti College of Engineering and Technology



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Dr. J.GOVARDHAN, M.E, Ph.D.

Principal

Samskruthi College of Engg. & Technology  
Kondapur(V), Ghatkesar(M), Medchal (D)

Place: Kondapur

Date:

Principal

Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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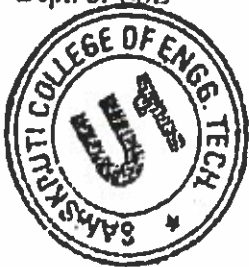
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Guide's Signature

Dr. P. MEENA KUMARI  
MCA., M Tech., Ph.D.,  
Associate Professor  
Dept. of CSE

  
Signature of Head of the Dept

Mr. K.VAMSHEE KRISHNA  
M.Tech.,  
Head of the Department  
Asst. Professor Computer Science Engineering  
Dept. of Samskruti College of Engineering and Technology



PRINCIPAL  
Dr. J.GOVARDHAN, M.E., Ph.D.,  
Principal  
Samskruthi College of Engg. & Technology  
Kondapur(V), Ghatkesar(M), Medchal (D)

Place: Kondapur

Date: 28/06/2021

  
Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dis



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Guide's Signature

Mr.CH.MURALI KRISHNA

M. Tech.

Asst. Professor

Dept. of CSI



Place: Kondapur

Date: 28/06/2021

Signature of Head of the Dept

Mr.K.VAMSHEE KRISHNA

M. Tech

Asst. Professor

Dept. of CSI

PRINCIPAL

Dr. J.GOVARDHAN, M.E, Ph.D.

Principal

Samskruthi College of Engg. & Technology

Kondapur(V), Ghatkesar(M), Medchal (D)

Head of the Department  
Computer Science Engineering  
Samskruti College of Engineering and Technology

Principal

Samskruti College of Engg. & Techn  
Kondapur (V), Ghatkesar (M), R.R. Dist

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Asst. Professor  
Dept. of CSE

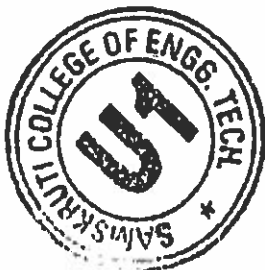
  
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Mr.K.VAMSHEE KRISHNA  
M. Tech

Asst. Professor  
Dept. of CSE  
Head of the Department  
Computer Science Engineering  
Samskruti College of Engineering and Technology


  
PRINCIPAL

Dr. J.GOVARDHAN, M.E, Ph.D.  
Principal  
Samskruthi College of Engg. & Technology  
Kondapur(V), Ghatkesar(M), Medchal (D)



Place: Kondapur

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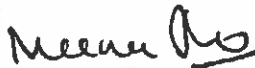
  
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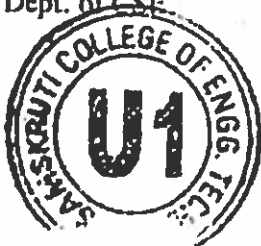


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Guide's Signature  
**Dr.P.MEENA KUMARI**  
MCA., MTech., Ph.D.,  
Associate Professor  
Dept. of CSE

  
Signature of Head of the Dept  
**Mr.K.VAMSHEE KRISHNA**  
M.Tech., Head of the Department  
Asst. Professor Computer Science Engineering  
Dept. of CSE Samskruti College of Engineering and Technology



  
PRINCIPAL

**Dr. J.GOVARDHAN, M.E., Ph.D.,**  
Principal  
Samskruthi College of Engg. & Technology  
Kondapur(V), Ghatkesar(M), Medchal (D)

Place: Kondapur  
Date: 28/06/2021

  
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Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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Guide's Signature  
Mrs. P YAMUNA  
M. Tech  
Asst. Professor  
Dept. of CSE



Place: Kondapur  
Date: 28 June 2021

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Mr. K. VAMSHEE KRISHNA  
M. Tech

Head of the Department  
Asst. Professor  
Computer Science Engineering  
Dept. of CSE  
Samskruti College of Engineering and Technology

PRINCIPAL

Dr. J. GOVARDHAN, M.E, Ph.D.  
Principal  
Samskruthi College of Engg. & Technology  
Kondapur(V), Ghatkesar(M), Medchal (D)

Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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KONDAPUR [V], GHATKESAR [M], MEDCHAL[D]  
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Guide's Signature

Mr.K.VAMSHEE KRISHNA

M. Tech

Asst. Professor

Dept. of CSE

Signature of Head of the Dept

Mr.K.VAMSHEE KRISHNA

M. Tech

Asst. Professor

Head of the Department  
Computer Science Engineering  
Dept. of CSE  
Samskruti College of Engineering and Technology



Place: Kondapur

Date: 28/06/2021

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Dr. J.GOVARDHAN, M.E, Ph.D.

Principal

Samskruthi College of Engg. & Technology  
Kondapur(V), Ghatkesar(M), Medchal (D)

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Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY  
KONDAPUR [V], GHATKESAR [M], MEDCHAL, Dist.  
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Guide's Signature

**Mr.P.Satyanarayana**  
M. Tech (Ph.D)  
Asst. Professor  
Dept. of CSE

  
Signature of Head of the Dept  
**Mr.K.VAMSHEE KRISHNA**  
M. Tech  
Asst. Professor  
Head of the Department  
Computer Science Engineering  
Dept. of CSE  
Samskruti College of Engineering and Technology

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**Dr. J.GOVARDHAN, M.E, Ph.D.**

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**Date: 28/6/21**



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Samskruthi College of Engg. & Technology  
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Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY  
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Guide's Signature

**MS. P. REGINA**

M. Tech

Asst. Professor

Dept. of CSE

Signature of Head of the Dept.

**Mr. K. VAMSHEE KRISHNA**

M. Tech

Head of the Department  
Asst. Professor Computer Science Engineering

Dept. of CSE Samskruti College of Engineering and Technology



**PRINCIPAL**

**Dr. J.GOVARDHAN, M.E, Ph.D.**

Principal

Samskruthi College of Engg. & Technology

Kondapur(V), Ghatkesar(M), Medchal (D)

Place: Kondapur

Date: 28/6/21

Principal  
Samskruti College of Engg. & Technoic.,  
Kondapur (V), Ghatkesar (M), R.R. Dist

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Guide's Signature  
Mr. CH MURALI KRISHNA  
M.TECH  
Assistant Professor  
Dept. of CSE

Signature of the Head of the Dept.  
Mr. K.VAMSHEE KRISHNA  
M.TECH  
Head of the Department  
Assistant Professor  
Computer Science Engineering  
Dept. of CSE  
Samskruti College of Engineering and Tech

PRINCIPAL  
Dr. J.GOVARDHAN, M.E., Ph.D.  
Principal  
Samskruthi College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), Medchal (D)



Place: Kondapur  
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External Examiner


Principal  
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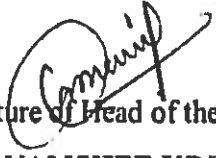
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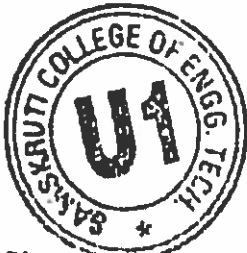


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Guide's Signature  
Mr.K.VAMSHEE KRISHNA  
M. Tech  
Asst. Professor  
Dept. of CSE

  
Signature of Head of the Dept  
Mr.K.VAMSHEE KRISHNA  
M. Tech  
Head of the Department  
Asst. Professor  
Dept. of CSE  
Computer Science Engineering  
Samskruti College of Engineering and Technology



Place: Kondapur

Date: 28/06/21

PRINCIPAL  
Dr. J.GOVARDHAN, M.E, Ph.D.

Principal  
Samskruti College of Engg. & Technology  
Kondapur(V), Ghatkesar(M), Medchal (D)

  
Principal  
Samskruti College of Engg. & Technol  
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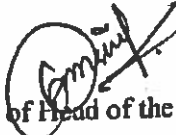
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(AFFILIATED TO JNTU, Hyderabad)



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Guide's Signature  
Mrs. P. YAMUNA  
M. Tech  
Asst. Professor  
Dept. of CSE


  
Signature of Head of the Dept  
Mr. K. VAMSHEE KRISHNA  
M. Tech  
Head of the Department  
Computer Science Engineering  
Asst. Professor  
Samskruti College of Engineering and Technology  
Dept. of CSE



Place: Kondapur

Date: 28/06/2021

PRINCIPAL  
Dr. J. GOVARDHAN, M.E, Ph.D.  
Principal  
Samskruthi College of Engg. & Technology  
Kondapur (V), Ghatkesar (M) Medchal (D)

  
Principal  
Samskruthi College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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KONDAPUR (V), GHATKESAR (M), MEDCHAL, Dist.  
(AFFILIATED TO JNTU, Hyderabad)**



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This is to certify that the dissertation entitled "GENERATING CLOUD MONITORS FROM MODELS TO SECURE CLOUD" is being submitted by CH. HEMANTH SAI KUMAR (17U11A0507), T. MANASA (17U11A0528), D.S. AMIT KUMAR (17U11A0535), M.SAI NARESH (17U11A0517), in partial fulfilment of the requirement for award of the degree of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out under our guidance and supervision.

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M. Tech

Asst. Professor

Dept. of CSE

Signature of Head of the Dept.

Mr. K. VAMSHEE KRISHNA

M. Tech

Head of the Department  
Asst. Professor Computer Science Engineering

Dept. of CSE Samskruti College of Engineering and Technology



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Dr. J.GOVARDHAN, M.E, Ph.D.

Principal

Samskruti College of Engg. & Technology

Kondapur(V), Ghatkesar(M), Medchal (D)

Place: Kondapur

Date: 28/6/21

Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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This is to certify that the dissertation entitled "STRESS DETECTION IN IT PROFESSIONALS BY IMAGE PROCESSING AND MACHINE LEARNING" is being submitted by ERRA HARATHI (17U11A0536), VISHAKA SHARMA (17U11A0557), SOMALAKSHMI (17U11A0526), B.M.S.S KIRANMAYI (17U11A0547) in partial fulfillment of the requirement for award of the degree of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out under our guidance and supervision.

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Mr. K.VAMSHEE KRISHNA

M. Tech

Asst. Professor

Dept. of CSE

Signature of Head of the Dept

Mr. K.VAMSHEE KRISHNA

M. Tech

Head of the Department  
Asst. Professor

Computer Science Engineering  
Dept. of CSE Samskruti College of Engineering and Technology



Place: Kondapur

Date: 28/06/2021

PRINCIPAL

Dr. J.GOVARDHAN, M.E, Ph.D.

Principal  
Samskruti College of Engg. & Technology  
Kondapur(V), Ghatkesar(M), Medchal (D)

Principal  
Samskruti College of Engg. & T  
Kondapur (V), Ghatkesar (M),

Dist



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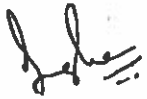
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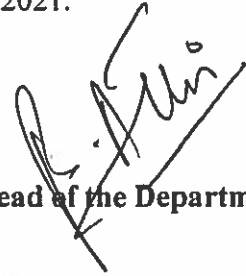
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**Principal**

**Principal**  
Samskruthi College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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**Kondapur (V), Ghatkesar (M), R.R. Dist**

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*Moelkuri*  
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*BLW*  
**External Observer**

*[Signature]*  
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Samskruthi College of Engg. & Technology  
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*[Signature]*  
**Principal**  
Samskruthi College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist

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This is to certify that **RAMEDI PRIYANKA YADAV, H.T NO: 19011E0025**  
has satisfactorily completed the project entitled "A STUDY ON HUMAN RESOURCE  
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*Medhavi*  
Internal Guide

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External Observer

*R. J. Srinivas*  
Head of the Department

*[Signature]*  
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Samskruti College of Engg. & Technology  
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Principal  
Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), R.R. Dist



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This is to certify that P SHAMBIHAVI, H.T NO: 19UHE0042 has satisfactorily completed the project entitled "QUALITY OF WORKLIFE KARUR VYSYA BANK." in partial fulfillment of the requirements for the award of degree of Master of Business Administration prescribed by Jawaharlal Nehru Technological University Hyderabad for the year 2019-2021.

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Samskruti College of Engg & Technology  
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Samskruti College of Engg. & Technology  
Kondapur (V), Ghatkesar (M), Medchal (D)



## CERTIFICATE

This is to certify that the Project Report entitled “**PERFORMANCE MANAGEMENT SYSTEMS**” submitted in partial fulfilment for the award of MBA Programme of Department of Business Management, **Samskruthi Engineering And Technology**, Ghatkesar, affiliated to JNTUH University, Hyderabad, was carried out by **JIDDU SUMITHRA** H.T.No.19U11E0011 under our guidance. This has not been submitted to any other University or Institution for the award of any degree/diploma/certificate.

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**Principal**

Principal  
Samskruthi College of Engg. & Technology  
Kondapur(V), Ghatkesar(M), R.R. Dist

Principal  
Samskruthi College of Engg. & Technoic  
Kondapur (V), Ghatkesar (M), R.R. Dist



## CERTIFICATE

This is to certify that the Project Report entitled "RECRUITMENT AND SELECTION PROCESS" submitted in partial fulfillment for the award of MBA Programme of Department of Business Management, **Samskruthi Engineering And Technology**, Ghatkesar, affiliated to JNTU University, Hyderabad, was carried out by MAMATHA SHERNO H.T.No.19U11E0028 under our guidance. This has not been submitted to any other University or Institution for the award of any degree/diploma/certificate.

*Mamathu*  
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*[Signature]*  
Head of the Department

Principal

*[Signature]*

*[Signature]*  
**Principal**  
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Kondapur (V), Ghatkesar (M), R.R. Dist



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This is to certify that **AKKALADEVI RADHIKA, H.T NO: 19U11E0002** has satisfactorily completed the project entitled "**A PERFORMANCE APPRAISAL OF HCL INFOSYSTEMS**" in partial fulfillment of the requirements for the award of degree of Master of Business Administration prescribed by Jawaharlal Nehru Technological University Hyderabad for the year 2019-2021.

*M. Mohan*  
Internal Guide

*Ashani*  
External Guide

*[Signature]*  
**Principal**  
Samskruti College of Engg. & Technology  
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*[Signature]*  
**Head of the Department**



### CERTIFICATE

This is to certify that **THANMI VINEELA**, H.T NO: 19011E 0031 has satisfactorily completed the project entitled "A STUDY ON CASH FLOW STATEMENT AT MADHUCON INDUSTRIES LTD" in partial fulfillment of the requirements for the award of degree of Master of Business Administration prescribed by Jawaharlal Nehru Technological University Hyderabad for the year 2019-2021.

*[Signature]*  
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*[Signature]*  
Head of the Department

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