

2019-18

# SANSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY

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

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

Phones: 08445-22491/92



## DEPARTMENT OF CIVIL ENGINEERING

### CERTIFICATE

This is to certify that the dissertation entitled "DESIGN OF READY MIX CONCRETE M25 GRADE"

Submitted by

UPPALA NARESH

:18L75A0115


VANKUDOTHU SANTHOSH


:18L75A0127

NAKKA NAGARAJU

:16L75A0107


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

  
INTERNAL GUIDE  
Mr. HANIFF  
ASSISTENT PROFESSOR

  
HEAD OF THE DEPARTMENT  
Dr. C.S.C. DEVADAS  
ASSOCIATE PROFESSOR

EXTERNAL EXAMINEE

2

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

**SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(Approved by AICTE, affiliated JNTU-HYDERABAD  
,Kondapur(V),Ghatkesar(M),Medchal(D),Telangana-501301

Department of Civil Engineering



**CERTIFICATE**

This is to certify that the thesis entitled, submitted by **K.SATHEESH (14U11A0134), B.LENINKUMAR(14U11A0106),G.SUMAN(14U11A0172),R.VENKAIAPI(14U11A0150),DS.SURESH(15U15A0105)** in partial fulfillment of the requirements for the award of Bachelor of Technology Degree in Civil Engineering, to the *Jawaharlal Nehru Technological University Hyderabad* during the academic year 2017-2018.

Internal Guide  
**Dr.C.SEIDY RAVI KUMAR**  
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Internal Examiner

Head of the Department  
**Dr.C.SEIDY RAVI KUMAR**  
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External Examiner

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

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DEPARTMENT OF CIVIL ENGINEERING



## BONAFIDE CERTIFICATE

This is to certify that the technical major project report entitled "ESTIMATION AND COSTING FOR AN G+2 INSTISTUTIONAL BUILDING " being submitted by D.Lavanya(13U11A0112), M.Bhavani(13U11A0122), R.Jyoshna(13U11A0129), Y.Nandini(13U11A0137),Shama(14U15A0116), bearing in partial fulfillment for the award of the degree of Bachelor of technology in civil engineering to the Jawaharlal Nehru Technological University, Hyderabad is a record of bonafide work carried out by him under our guidance and supervision.

*P. Sreekanth Reddy*  
Project guide

**Mr.P.SREEKANTH REDDY**  
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Internal Examiner

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28/4/18  
Head of the Department

**Mr.SELIN RAVI KUMAR. PhD**  
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**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

Certified that this is a bonafide record of the dissertation work entitled, "High-Strength Concrete Mix Design' Using Various Admixtures and Evaluation of Properties", done by N.SHRAVAN KUMAR(14U15A0107), P. ANIL (14U15A0109), P. RAJENDER (14U15A0111), R. RUPESH (14U15A0112), S. BALANANDA PRASAD (14U15A0114) submitted to the faculty of Civil Engineering, in partial fulfillment of the requirements for the Degree of Bachelors of Technology in Civil Engineering from Jawaharlal Nehru Technological University, Hyderabad.

  
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**Asst.Professor**

  
Head of the Department

**C SELIN RAVIKUAR, M.Tech.**

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External Examiner

  
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Department of Electrical & Electronics Engineering



## CERTIFICATE

This is to certify that the thesis entitled Transformerless inverter for single phase Photovoltaic systems System being submitted by B.SOMLA (13U11A0205), K.SUMAN (13U11A0213), A.SHRAVAN (14U15A0201), N.RAMESH (14U15A0213) in partial fulfillment of the requirements 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 record of bonafide work carried out by her under my guidance and supervision from December 2016 to April 2017.

The results presented in this Thesis have been verified and found to be satisfactory

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Mr A.SURESH KUMAR, M.Tech(Ph.D).  
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Department of Electrical & Electronics Engineering



**CERTIFICATE**

This is to certify that the thesis entitled, "MODELLING OF DC-DC CONVERTER" done by S.NAGAMALLESH bearing H.NO:13U11A0231; M.GANESH bearing H.NO: 13U11A0218; G.PHANINDRA bearing H.NO:14U15A0207; G.SAIKRUPA CHARY bearing H.NO: 14U15A0219 submitted to the faculty of electrical Engineering in partial fulfillment of the requirements 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 record of bonafide work carried out by him under my guidance and supervision. The results presented in this Thesis have been verified and found to be satisfactory.

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Mr.A.Suresh Kumar, M.Tech(Ph.D)  
Assoc. Professor

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

**External Examiner**

**SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY**

**KONDAPUR (V), GHATKESAR (M), MEDCHIEP. Dist, TS**

**(Affiliated to JNTU-HYD, Approved by AICTE)**

**Department of Electrical & Electronics Engineering**



**CERTIFICATE**

This is to certify that the thesis entitled **LOW LOSS SOFT SWITCHING BOOST CONVERTER** being submitted by **S.MADIHU(13U11A0230), L.SRAVAN (13U11A0216), C.PRATHIBHA REDDY (14U15A0206), V.DURGA PRASAD (14U15A0218)** in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in electrical electronic engineering to the Samskruti College of Engineering and Technology , Affiliated to JNTU Hyderabad is a record of bonafide work carried out by her under my guidance and supervision. The results presented in this Thesis have been verified and found to be satisfactory.

**Internal Guide**  
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**Asst.Professor**

**Head of the Department**  
**A.SURESH KUMAR,M.Tech,(Ph.D.)**  
**Assoc.Professor**

**External Examiner**

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



## CERTIFICATE

This is to certify that the thesis entitled, "SINGLE PHASE TO THREE PHASE DRIVE SYSTEM USING TWO PARALLEL SINGLE PHASE RECTIFIER" done by B.VENKATESH bearing H.No:13U11A0209, BRAJESHWAR bearing H.No:13U11A0204, T.RAJESHIRAJU bearing H.No:13U11A0232, K.PRAKASH bearing H.NO :14U15A0211 submitted to the faculty of electrical engineering, in partial fulfillment of the requirements 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 record of bonafide work carried out by him under my guidance and supervision from December 2016 to April 2017.

The results presented in this Thesis have been verified and found to be satisfactory.

*Indira Rani* 26/4/17  
Internal Guide  
Mrs.G.Indira Rani, M.Tech.  
Asst. Professor

*[Signature]*  
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Mr.A.Suresh Kumar, M.Tech, (Ph.D).  
Assoc. Professor

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External Examiner

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Principal  
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**SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY**

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


**(Affiliated to JNTU-HYD, Approved by AICTE)**


**Department of Electrical & Electronics Engineering**



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This is to certify that the thesis entitled **LOW LOSS SOFT SWITCHING BOOST CONVERTER** being submitted by **S.MADHU(13U11A0230), L.SRAVAN (13U11A0216), C.PRATHIBHA REDDY (14U15A0206), V.DURGA PRASAD (14U15A0218)** in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in electrical electronic engineering to the Samskruti College of Engineering and Technology, Affiliated to JNTU Hyderabad is a record of bonafide work carried out by her under my guidance and supervision. The results presented in this Thesis have been verified and found to be satisfactory.

  
Internal Guide  
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Head of the Department  
**A. SURESH KUMAR, M.Tech, (Ph.D.)**  
Assoc. Professor

  
External Examiner

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



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*Indira Rani* 26/4/17  
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Asst. Professor

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

*[Signature]*  
Principal

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

*[Signature]*

12/1/17

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KONDAPUR, GHATKESAR, MEDCHAL Dist, TS-501301  
Department of Electrical & Electronics Engineering




**CERTIFICATE**

This is to certify that the thesis entitled **POWER CONTROLLABILITY OF A THREE PHASE CONVERTER WITH AN UNBALANCED AC SOURCE** being submitted by **D.Mahender(13U11A0207),B.Mohan(13U11A0202),R.Bhagath(13U11A0226),J.Eshwar(15U11A0210)** in partial fulfillment of the requirements 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 record of bonafide work carried out by her under my guidance and supervision from December 2016 to April 2017.

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Internal Guide 25/4/17

**Mr.P.Jagadeesh, M.Tech.,EPE.**  
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Head of the Department  
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Department of Electrical & Electronics Engineering



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**Head of the Department**  
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**SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
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**Head of the Department**  
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**SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(Affiliated to JNTU-HYD, Approved by AICTE)  
KONDAPUR, GHATKESAR, MEDCHAL Dist, TS-501301  
Department of Electrical & Electronics Engineering



**CERTIFICATE**

This is to certify that the thesis entitled DTC-SVM SCHEME FOR INDUCTION MOTORS FED WITH A THREE LEVEL INVERTER System being submitted by A.KIRANKUMAR(13U11A0201), B.YAKUB(13U11A0203), P.JAYAVARDHAN (13U11A0224), P.SANDEEPCHARY(13U11A0225) in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology from Electrical and Electronics Engineering to the Samskruti College of Engineering and Technology , Affiliated to JNTU Hyderabad is a record of bonafide work carried out by her under my guidance and supervision from 2017.

The results presented in this Thesis have been verified and found to be satisfactory

  
Internal Guide

K.SRIDHAR, M.Tech.  
Asst. Professor

  
Head of the Department

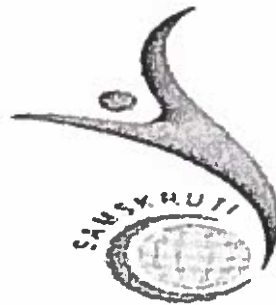
A.SURESH KUMAR, M.Tech(Ph.D).  
Assoc. Professor

  
External Examiner

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

# SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY

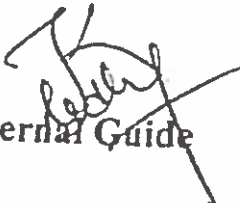
(Affiliated to JNTU-HYD. Approved by AICTE)  
KONDAPUR, GHATKESAR, MEDCHAL Dist, TS-501301  
Department of Electrical & Electronics Engineering



## CERTIFICATE

This is to certify that the thesis entitled "SINGLE-PHASE ACTIVE DEVICE FOR POWER QUALITY IMPROVEMENT OF ELECTRIFIED TRANSPORTATION" System being submitted to G.SURESH (13U11A0211) M.LAL (13U11A0220) B.SAGAR (13U11A0235) KANAND (14U15A0212) in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology from Electrical and Electronic Engineering to the Samskruti College of Engineering and Technology, Affiliated to JNTU Hyderabad is a record of bonafide work carried out by him under my guidance and supervision from 2017.


The results presented in this Thesis have been verified and found to be satisfactory


  
Internal Guide

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(Affiliated to JNTU-HYD, Approved by AICTE)

KONDAPUR, GHATKESAR, MEDCHAL Dist, TS-501301

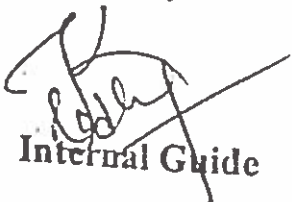
Department of Electrical & Electronics Engineering




## CERTIFICATE

This is to certify that the thesis entitled DTC-SVM SCHEME FOR INDUCTION MOTORS FED WITH A THREE LEVEL INVERTER System being submitted by A.KIRANKUMAR(13U11A0201), B.YAKUB(13U11A0203), P.JAYAVARDHAN (13U11A0224), P.SANDEEPCHARY(13U11A0225) in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology from Electrical and Electronics Engineering to the Samskruti College of Engineering and Technology, Affiliated to JNTU Hyderabad is a record of bonafide work carried out by her under my guidance and supervision from 2017.

The results presented in this Thesis have been verified and found to be satisfactory

  
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**CERTIFICATE**

This is to certify that the thesis entitled **STATCOM AND ELECTRIC SPRINGS BASED ON DISTRIBUTED VOLTAGE CONTROL** System being submitted by **P.DURGAPRASAD** bearing H.T.No:13U11A0223, **G.VINOD** bearing H.T.No:13U11A0210, **B.SRINIVAS** bearing H.T.No :14U15A0204 in partial fulfillment of the requirements 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 record of bonafide work carried out by under my guidance and supervision.

  
Internal Guide

Mr.P.JAGADEESH, M.Tech  
Assoc. Professor



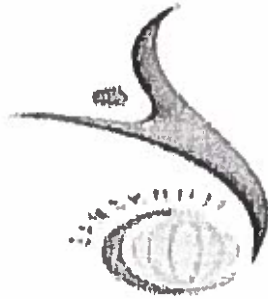
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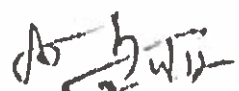
## CERTIFICATE

This is to certify that the thesis entitled "SINGLE-PHASE ACTIVE DEVICE FOR POWER QUALITY IMPROVEMENT OF ELECTRIFIED TRANSPORTATION" System being submitted by .SURESH (13U11A0211) M.L.AL (13U11A0220) B.SAGAR (13U11A0235) K.ANAND (14U15A0212) in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology from Electrical and Electronic Engineering to the Samskruti College of Engineering and Technology, Affiliated to JNTU Hyderabad is a record of bonafide work carried out by her under my guidance and supervision from 2017.

The results presented in this Thesis have been verified and found to be satisfactory

  
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Assoc.Professor

  
External Examiner

  
Principal  
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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).  
(2014-18)




**CERTIFICATE**


This is certify the project entitled "POST TREATMENT IN DRINKING RO PLANT WITH INSTANT PURIFIER AND ADDED MINERALS" Is being submitted by B.V.SUBRAMANYAM (14U11A0311), S. ARAVINDA CHARY(15U151A0328), T.NAGARAJU(14U11A0348), U. VENUGOPAL(14U11A0350)

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.  
Mr. K.VIJAY KUMAR  
Asst. Professor & HOD  
Dept. of. MECH

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

  
External Examiner


(ii)


DEPARTMENT OF MECHANICAL ENGINEERING  
SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY  
KONDAPUR, GHATKESAR, MEDCHAL Dist.  
(AFFILIATED TO JNTU, Hyderabad)



**CERTIFICATE**

This is to certify that the dissertation entitled "MODELING AND ANALYSIS OF CONNECTING ROD OF FOUR STROKE SINGLE CYLINDER ENGINE FOR OPTIMIZATION OF COST & MATERIAL " being submitted by M VINEETH RAJ (14U11A0339), P C LAVAKUMAR (14U11A0341), ANIL SHEELAM (14U11A0344), S SANDEEP (14U11A0345) in partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision .

  
Guide's signature  
Mrs. M SWARNA  
M. Tech  
Asst. Professor  
Dept. of ME

  
Signature of the Head of the Dept.  
Mr. K VIJAY KUMAR  
M. Tech  
Assoc. Professor  
Dept. of ME

Place: Kondapur  
Date:

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

  
Examiner

DEPARTMENT OF MECHANICAL ENGINEERING  
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KONDAPUR, GHATKESAR, MEDCHAL Dist.  
(AFFILIATED TO JNTU, Hyderabad)



**CERTIFICATE**

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Guide's Signature  
G. K. RAKESH

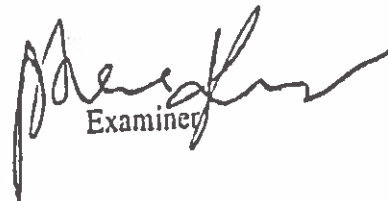
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(2014-18)



**CERTIFICATE**

This is certify the project entitled " PRE-TREATMENT IN DRINKING RO PLANT BACKWASH SYSTEM WITH FLAW LESS TDS ADJUSTER DESIGN" is being submitted by 1. R Yelleswar Goud (14U11A0343), 2. K Shachikumar (14U11A0327), 3. N Rajender (14U11A0340), 4. J Veeresh (14U11A0325). 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 them 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.

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KONDAPUR (V), GHATKESAR (M), MEDCHAL (Dist), TELANGANA-501301.

(2014-2018)



CERTIFICATE

This is to certify that Project report entitled "DESIGN AND MANUFACTURING OF COMBINATION DIE" is being submitted by G. RAJU (14U11A0319), G.SURAJ (14U11A0320), CHANDRAMANI SINGH (14U11A0337), AMERJEET SINGH (14U11A0333) 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.



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This is to certify that the dissertation entitled "PREDICTION OF SURFACE ROUGHNESS IN TURNING OF EN19 ALLOY STEEL BY ACOUSTIC EMISSION TECHNIQUE" being submitted by THOTLA SHIVA KUMAR (15U15A0323), REGU UMA (15U15A0327), BETHI UDAY (14U11A0307), ESLAVATH ANJANEYULU (14U11A0315) in partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision .

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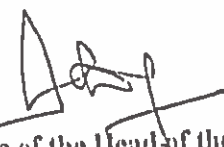
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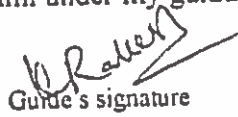


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Dept. of MECH

Place: Kondapur  
Date:

  
**Principal**

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


  
Examiner

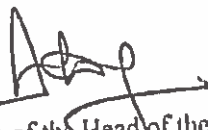
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(AFFILIATED TO JNTU, Hyderabad)



## CERTIFICATE

This is to certify that the dissertation entitled "STUDY AND ANALYSIS OF RO WASTE WATER UTILISATION THROUGH SOFTENER SYSTEM" being submitted by B.NAGENDRA (14U11A0309), A.OMNATH (14U11A0303), CH.RAVINDAR (14U11A0312), A.CHANDRAKANTH (14U11A0302) in partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision .

  
Guide's signature  
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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.

(2014-2018)



## CERTIFICATE

This is to certify that Project report entitled "EXPERIMENTAL INVESTIGATION ON CONCENTRIC TUBE COUNTER FLOW HEAT EXCHANGER WITH TWISTED TAPE INTERRUPTER INTERRUPTER" is being submitted by K.SHVETHA (14U11A0331) L.KRANTHI KUMAR (14U11A0334) M.POCHAM ( 14U11A0335) B.RAJASHEKAR (15U1150304) 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.

*Ramesh Biradar*  
9/14/18  
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Mr.RAMESH BIRADAR B.E., M.Tech.,  
Asst.professor

*K. Vijay Kumar*  
HEAD OF THE DEPARTMENT

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Professor & HOD

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DATE:

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2017-2018

2018-2019

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KONDAPUR, GHATKESAR, MEDCHIAL Dist.  
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## CERTIFICATE

This is to certify that the dissertation entitled "STUDY OF HEAT TRANSFER RATES IN SINGLE SPIRAL AND MULTI SPIRAL WATER BLOCKS AT DIFFERENT FLOW RATES" being submitted by CH.ANUSHEKAR (15U15A0305), K.SAI KIRAN (15U15A0312), MD.AZEEMUDDIN (15U15A0316), S.LOKESH (15U15A0321) in partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and super vision.

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




## CERTIFICATE

This is to certify that the dissertation entitled "PREDICTION OF YIELD STRENGTH OF IN FRICTION STIR WELDING OF AA6082 T6 ALUMINIUM ALLOY PLATES BY ACOUSTIC EMISSION TECHNIQUE" being submitted by B.RAGHU RAM (15U15A0302), M.BALAKRISHNA (14U11A0338), MD.TAJODDIN BABA (14U11A0336), G.KRANTHI KUMAR(15U15A0306) in partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision .

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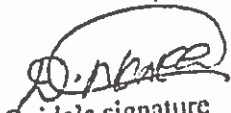
  
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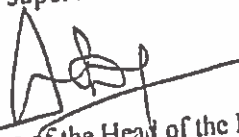
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KONDAPUR, GHATKESAR, MEDCHAL Dist.  
(AFFILIATED TO JNTU, Hyderabad)



CERTIFICATE


This is to certify that the dissertation entitled "POWER GENERATION FROM SILENCER EXHAUST GASES TO CHARGE OWN BIKE BATTERY" being submitted by T SRIKANTH (14U11A0349), V SRINADH (14U11A0352), G SHIVAJI (15U15A0307), G RAVI (15U15A0308) in partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision .

  
Guide's signature  
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DECLARATION BY THE CANDIDATE

We, M VINEETH RAJ (14U11A0339), P C LAYA KUMAR (14U11A0341), ANIL SHEELAM (14U11A0344), S SANDEEP (14U11A0345), hereby declare that the project report titled "MODELING AND ANALYSIS OF CONNECTING ROD OF FOUR STROKE SINGLE CYLINDER ENGINE FOR OPTIMIZATION OF COST & MATERIAL." under the guidance of Mrs. M SWARNA Asst. Professor, Department of Mechanical Engineering, Samskruti College of Engineering and Technology, Kondapur, is submitted in partial fulfillment of the requirements for the award of the degree of *Bachelor of Technology in Mechanical Engineering*.

This is a record of bonafide work carried out by me and the results embodied in this project have not been reproduced or copied from any source. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any Degree or Diploma

M VINEETH RAJ  
P C LAYA KUMAR  
ANIL SHEELAM  
S SANDEEP

  
**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 "AN EXPERIMENTAL INVESTIGATION OF THE HEAT TRANSFER CAPABILITY AND THERMAL PERFORMANCE OF CLOSED LOOP PULSATING HEAT PIPE" being submitted by P. RAJENDRA (15U15A0326), Y. PARAMESHWARI (15U15A0324), V. PRASHANTH (15U15A0329), R. PAVAN KUMAR (15U15A0320) in partial fulfillment for the award of Bachelor of Technology in Mechanical Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision.

*Praveen . A.V.*  
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17-18

Department of Electronics & Communication Engineering  
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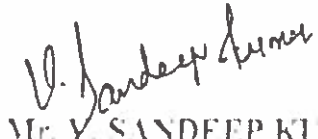
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(2014-2018)



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This is to certify that the project report entitled "RFID SECURITY ACCESS CONTROL SYSTEM" is being submitted by B. GNANAPRAKASH(14U11A0402), MUTUMABUNGMEITEI(14U11A0423), A. SURJIT KUMAR SINGH (14U11A0401) & P. VAMSHI KRISHNA (14U11A0428) respectively in partial fulfillment of the requirements for the award of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING to Jawaharlal Nehru Technological University, Hyderabad. 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

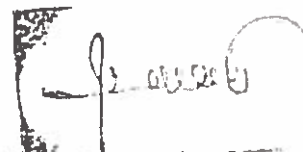
  
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EXTERNAL EXAMINER

  
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**Department of Electronics and Communication Engineering**  
**2014-18**



**CERTIFICATE**

This is to certify that the major project report entitled "RFID BASED ATTENDANCE SYSTEM" is being submitted by U.VENKATA RAMUDU (14U11A0427), T.RAJU (14U11A0426), N.SAI KRISHNA(14U11A0424), R.ABHINAY KUMAR (15U15A0430), 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.

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**Mrs. B.UDAYA SRI** M.Tech.  
Assistant professor

  
**HEAD OF DEPARTMENT**

**Dr.MANJULA.S**  
Professor

  
**EXTERNAL EXAMINER**

  
**Principal**  
Samskruti College of Engg. & Technology  
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Department of Electronics and Communication Engineering

2014-2018



## CERTIFICATE

This is to certify that the major project report entitled "IOT BASED HOME AUTOMATION OVER THE CLOUD" is being submitted by B.SRIKANTH (15U15A0402), P.VISHNU VARDHAN(15U15A0428), P.SIVA KUMAR(15U15A0429), T.HARI KUMAR (15U15A0435) 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

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Assistant professor

HEAD OF DEPARTMENT

Dr.S.MANJULA  
Professor

EXTERNAL EXAMINER

Principal  
Samskruti College of Engg. & Technology  
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Department of Electronics & Communication Engineering  
SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY

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Kondapur (V), Ghatkesar (M), Medchal Dist., 501301.

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This is to certify that the project report entitled "SPEED CHECKER TO DETECT RASH DRIVINGS ON HIGH WAYS" is being submitted by J.NARESH (14U11A0414), K. PRASANTH REDDY (14U11A0406), J.LAKPATHI (14U11A0415) & M.KARTHIK REDDY(14U11A0421) respectively in partial fulfillment of the requirements for the award of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING to Jawaharlal Nehru Technological University, Hyderabad. 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.

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Associate Professor

  
HEAD OF THE DEPARTMENT

Dr. S. MANJULA<sup>Ph.D</sup>

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EXTERNAL EXAMINER

  
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Kondapur (V), Ghatkesar (M), Medchal (Dist), 503 304.

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### CERTIFICATE

This is to certify that the project report entitled "STREET THAT GLOWS ON DETECTING VEHICLE MOVEMENT" is being submitted by CH. MANEESHA (14U11A0408), MARUNA(14U11A0422), K.POOJANAIAK(14U11A0417), B. SOUJANYA (14U11A0403) in partial fulfillment of the requirements for the award of Bachelor of Technology in Electronics and Communication Engineering to Jawaharlal Nehru Technological University, 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

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## CERTIFICATE

This is to certify that the dissertation entitled "A Framework to Facilitate Selection of Cloud Service Providers" being submitted by GANPA SUKESH (14U11A0506), MAMIDALA RAJANIKANTH (14U11A0510), ADEPU KARTHIK (14U11A0501), ONIAM DAYANANDA SINGH (14U11A0515) in partial fulfillment for the award of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision.

  
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**CERTIFICATE**

This is to certify that the dissertation entitled "Cloud Federation Formation in the Sky: Game and Mechanism" being submitted by GANTALA SRIKANTH (14U11A0507), NAGUNURI SRILEKHA (14U11A0514), ROYYALA AKHIL KUMAR (14U11A0521), PONNALA YESHWANTH (14U11A0518) in partial fulfillment for the award of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision.

  
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KONDAPUR, GHATKESAR R.R. Dist.  
(AFFILIATED TO JNTU, Hyderabad)



## CERTIFICATE

This is the certify that the dissertation entitled "Co-Extracting Opinion Targets and Opinion Words from Online Reviews Based on the Word Alignment Model" being submitted by PAMARTHI TRIVENI (15U15A0509), KOLA SHIRISHA (15U15A0504), AKULA NAG MANISH (14U11A0502), VANGA PRATHYUSHA (14U11A0526) in partial fulfillment for the award of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision .

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Asst. Professor  
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Ms. G. RADHA DEVI

M.Tech,  
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Place: Kondapur

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

Examiner

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CERTIFICATE

This is to certify that the dissertation entitled "Secure And Distributed Data Discovery And Dissemination In Wireless Sensor Networks" being submitted by VEMULA PRANAY (14U11A0527), MOHAMMAD FARUKHKHAN (14U11A0513), SAMA RAMAKRISHNA REDDY (14U11A0522), ROLI SNEHA (14U11A0520), K NIKHIL REDDY (13U11A0511) in partial fulfillment for the award of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision.

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Date: 11-04-18


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## CERTIFICATE

This is to certify that the dissertation entitled "A DISTRIBUTED FAULT TOLERANT TOPOLOGY CONTROL ALGORITHM FOR HETEROGENEOUS WIRELESS SENSOR NETWORKS" being submitted by GADDAMIDI MANASA (14U11A0505), LAKSHMI NAVEEN (14U11A0509), SHIKHA MANASA (14U11A0525), PARSANABOINA DEEPA (14U11A0517) in partial fulfillment for the award of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision.

  
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Examiner


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## CERTIFICATE

This is to certify that the dissertation entitled "A SCALABLE AND RELIABLE MATCHING SERVICE FOR CONTENT BASED PUBLISH/SUBSCRIBE SYSTEMS" being submitted by MOHAMMAD REZAUL (15U15A0507), RACHAKATLA ARUN KUMAR (15U15A0510), THOLICHUKKA SWARNA SREE (15U15A0511), in partial fulfillment for the award of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision

  
Guide's Signature  
Mrs P. K. Y. A.  
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Asst Professor  
Dept. of CSE

  
Signature of the Head of the Dept.  
Ms. G. RADHA DEVI  
M. Tech  
Asst. Professor  
Dept. of CSE

Place: Kondapur  
Date: 11/04/2018

  
  
Principal  
Examiner

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



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KONDAPUR, GHATKESAR R.R. Dist.

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**CERTIFICATE**

This is the certify that the dissertation entitled "Fully Anonymous Profile Matching In Mobile Social Networking" being submitted by K.SATISH REDDY (14U15A0503), CHUNCHU SWATHI (14U15A0502), CHANDALURI JAYAKRISHNA (14U15A0501), MULLAGIRI AYODHA SREERAM (14U15A0505) in partial fulfillment for the award of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technology University is a record of confined work carried out by him under my guidance and supervision .

  
Guide's signature

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M. Tech

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Examiner

  
**Principal**  
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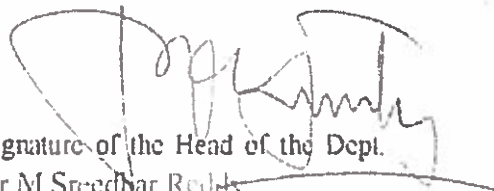
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DS" in partial fulfillment of the requirements for the award of degree of Master of Busi  
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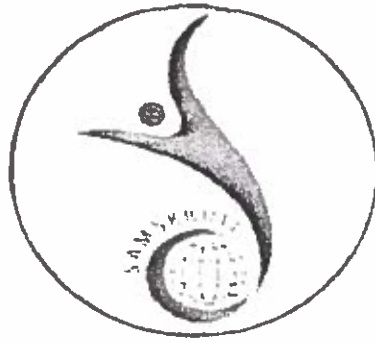
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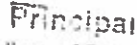
  
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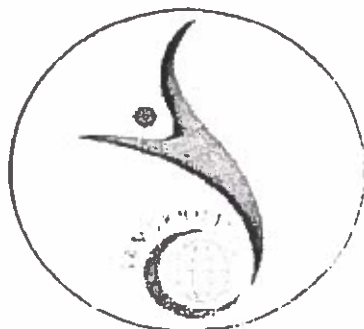
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