

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**STRENGTH PERFORMANCE OF LIGHT WEIGHT  
CONCRETE USING PUMICE STONE**

*A project report submitted to the*

**Jawaharlal Nehru Technological University Kakinada**

*In partial fulfilment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**In**

**CIVIL ENGINEERING**

**By**

**A.KUMAR SWAMY(15H71A0109) MAISHWARYA RANI (15H71A0131)  
G.NIVEDITHA(15H71A0121) P.CHARAN TEJ(15H71A0106)  
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**Under the Esteemed Guidance of**

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**2018-2019**



*An ISO 9001:2008  
Certified Institute*



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2018-2019



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## CERTIFICATE

This is to certify that the project report entitled "STRENGTH PERFORMANCE OF LIGHT WEIGHT CONCRETE USING PUMICE STONE " BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA, is a bonafied work done by A. KUMARA SWAMY, M. AISHWARYA RANI , G. NIVEDITHA , P. CHARAN TEJ, CH. RAVI CHAND bearing Registration number 15H71A0109, 15H71A0131, 15H71A0121, 15H71A0106 and 15H71A0130 under my guidance during the academic year 2018-19 and it has been suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

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Assistant Professor

Project guide

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EXTERNAL EXAMINER

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## MODELLING FOR DETERMINING SOURCE MECHANISM OF EARTHQUAKES

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

In

**DEPARTMENT OF CIVIL ENGINEERING**

Submitted by

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A. Sai Reddy (15H71A0148)

K. Jyothirmai (15H71A0114)

B. Venu Gopal (15H71A0149)

G.L. Narayana (15H71A0117)

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Assistant Professor

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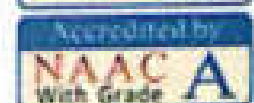
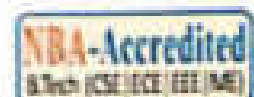
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### CERTIFICATE

This is to certify that the project report entitled "MODELLING FOR DETERMINING SOURCE MECHANISM OF EARTHQUAKES" being submitted for the partial fulfilment of the requirements for the award of the course in Bachelor of Technology in Civil Engineering from Jawaharlal Nehru Technology University, Kakinada. It is bonafide work done by K. Amrutha, A. Sai Reddy, K. Jyothirmai, B. Venu Gopal, G.L. Narayana bearing 15H71A0102, 15A71A0148, 15H71A0114, 15H71A0149, 15H71A0117 of IV B.Tech submitted to DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY (JNTUK) fulfilment of B.Tech course for the award of B.Tech in Civil Engineering during the academic year 2018 -2019.

  
Mr. AJAY KUMAR VERMA

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**EXPERIMENTAL STUDY ON USAGE OF METAKAOLIN  
AND EGGHELL POWDER AS A PARTIAL REPLACEMENT  
OF CEMENT AND FINE AGGREGATE IN CONCRETE**

A project report submitted to the

**Jawaharlal Nehru Technological University Kakinada**

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

in

**CIVIL ENGINEERING**

By

**V.RAMYA SREE(15H71A0129)**

**B.NARESH(15H71A0120)**

**S.DURGA PRAKASH(15H71A0107)**

**M.JOSHUA(15H71A0113)**

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This is to certify that the project report entitled "EXPERIMENTAL STUDY ON USAGE OF METAKAOLIN AND EGGSHELL POWDER AS A PARTIAL REPLACEMENT OF CEMENT AND FINE AGGREGATE IN CONCRETE" from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA, is a bonafide work done by Ms.V.RAMYA SREE (15H71A0129), Mr.B.NARESH (15H71A0120), Mr.S.DURGA PRAKASH (15H71A0107), Mr.M.JOSHUA (15H71A0113) under my guidance during the academic year 2018-19 as it has been suitable for acceptance according to the requirements of the university. This work is not submitted to any other institution or university for the award of any degree.

  
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Assistant professor

Project Guide

  
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Associate professor

Head of the Department



  
Dr. Y. Sudheer Babu, Ph.D (IITM)

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PRINCIPAL

Devineni Venkata Ramana & Dr. Himasekhar  
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KANCHIKACHERLA, Krishna District

  
EXTERNAL EXAMINER

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**REINFORCING THE SUBGRADE SOIL BY  
COIR GEOTEXTILE USING KANPAVE**

Submitted to

**Jawaharlal Nehru Technological University Kakinada**

In partial fulfilment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**DEPARTMENT OF CIVIL ENGINEERING**

Submitted by

<b>K. APARNA</b>	<b>(16H75A0101)</b>
<b>N. JAYARAM PRASAD</b>	<b>(16H75A0105)</b>
<b>N. JAGADESH</b>	<b>(15H71A0112)</b>
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**2018-2019**

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**NAAC**  
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## CERTIFICATE

This is to certify that the project report entitled "REINFORCING THE SUBGRADE SOIL BY COIR GEOTEXTILE USING KANPAVE" being submitted for the partial fulfilment of the requirements for the award of the course in Bachelor of Technology in Civil Engineering from Jawaharlal Nehru Technology University, Kakinada. It is bonafied work done by with register no K. Aparna, N. Jayram Prasad, N. Jagadesh, A. Fanindra bearing 16H75A0101, 16H75A0105, 15H71A0112, 15H71A0108 of IV B.Tech submitted to DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY (JNTUK) fulfilment of B.tech course for the award of B.tech in Civil Engineering during the academic year 2018 -2019.

  
Project Guide

Mr. J.DIVAKAR M.Tech

  
Head of the Department

Mr. N.V SUBBARAO (Ph.D)





Principal

Dr. Y. SUDHEER BABU

Dr. Y. SUDHEER BABU  
Principal  
MIC College of Technology  
Kanchikacherla, Krishna District

  
Examiner



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**EXPERIMENTAL STUDY ON STABILIZATION OF BLACK COTTON  
SOIL USING PLASTER OF PARIS**

A project report submitted to the  
**Jawaharlal Nehru Technological University Kakinada**  
In partial fulfilment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

In

**CIVIL ENGINEERING**

By

**M. Siva Kalyan (15H71A0138)      U. Prasanna Lakshman (15H71A0124)**  
**G. Chandra Sekhar (16H75A0102)    A. Dasaradha (16H75A0103)**

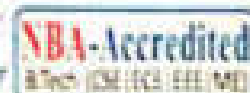
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This is to certify that the project report entitled "EXPERIMENTAL STUDY ON BLACK COTTON SOIL USING PLASTER OF PARIS" BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA, is a bonafied work done by M. Siva Kalyan (15H71A0138) , U. Prasanna Lakshman (15H71A0124) , G. Chandra Sekhar (16H75A0102) , A. Dasaradha (16H75A0103) under my guidance during the academic year 2018-19 and it has been suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

Mr. P. Sathibabu , M.Tech  
Associate professor  
Project Guide



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Associate professor  
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Kanchikacherla, Krishna District

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**STUDY ON BIO GAS PRODUCTION AND WASTE WATER  
TREATMENT AT MIC COLLEGE**

A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment for the award of the degree of  
**BACHELOR OF TECHNOLOGY**

**In  
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**By**

**A. RAHUL (15H71A0125)**

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**A. MANASWI (15H71A0118)**

**D. VAMSI SAI KRISHNA (15H71A0145)**

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*As per the 2008  
Contract between*



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As per NAAC 2008  
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This is to certify that the project report entitled "STUDY ON BIO GAS PRODUCTION AND WASTE WATER TREATMENT AT MIC COLLEGE" BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA, is a bonafied work done by Mr. RAHUL (15H71A0125), Mr. RAJASHEKAR (15H71A0126), Ms. MANASWI (15H71A0118), Mr. VAMSI SAI KRISHINA (15H71A0145) under my guidance during the academic year 2018-19 and it has been suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
**Ms. G. SUKANYA M.Tech**  
Assistant professor  
Project Guide

  
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Associate professor  
Head of the Department



  
**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
Principal

  
**External Examinee**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**

**KAKINADA**



**ANALYSIS AND DESIGN OF (G+5) RESIDENTIAL  
BUILDING**

*A project report submitted to the*

**Jawaharlal Nehru Technological University Kakinada**

*In partial fulfillment for the award of the Degree of*

**BACHELOR OF TECHNOLOGY**

*In*

**CIVIL ENGINEERING**

*By*

**G. CHANDRIKA (15H71A0105)**

**N.PRAKASHRAJ (15H71A0123)**

**K.KOTI KRISHNA (15H71A0116)**

**J.MANOJ**

**(15H71A0119)**

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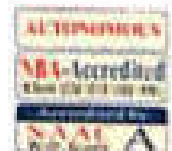
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**2018-2019**



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

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**CERTIFICATE**

This is to certify that the project report entitled "ANALYSIS AND DESIGN OF (G+5) RESIDENTIAL BUILDING" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Civil Engineering from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA, is a Bonafide work done by G.CHANDRIKA, N.PRAKASH RAJ, K.KOTIKIRSHNA, J.MANOJ with Regd Nos: 15H71A0105, 15H71A0123, 15H71A0116, 15H71A0119 under my guidance during the academic year 2018-19 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

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Project Guide

*Subba Rao*

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Devineni Venkata Ramana & Dr Hima Sekhar  
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EXTERNAL EXAMINER

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**

**KAKINADA**



**EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF  
CEMENT WITH MARBLE POWDER AND FINE  
AGGREGATE WITH MANUFACTURED SAND**

A project report is submitted to the  
**Jawaharlal Nehru Technological University, Kakinada**  
in partial fulfilment for the award of the degree of  
**BACHELOR OF TECHNOLOGY**

**IN  
CIVIL ENGINEERING**

by

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This is to certify that the project report entitled "Experimental Investigation on partial replacement of cement with marble powder and fine aggregate with manufactured sand" being submitted for the partial fulfilment of the requirements for the award of the degree in Bachelor of Technology in Civil Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafied work done by K.Sai Krishna (15H71A0132), G.Durga Malleswari (16H75A0104), V.Sai teja (15H71A0135), V.Vijay (15H71A0150) under my guidance during the academic year 2018-19 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
Mr. R. NAVEEN KUMAR, M.TECH

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**

**KAKINADA**



**EXPERIMENTAL USAGE OF BITUMINOUS ROADS  
MODIFIED WITH CRUMB RUBBER**

*A project report submitted to the*

**Jawaharlal Nehru Technological University Kakinada**

*In partial fulfillment for the award of the Degree of*

**BACHELOR OF TECHNOLOGY**

*In*

**CIVIL ENGINEERING**

*By*

**CH.MOHAN (16H75A0106)**

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*Under the esteemed guidance of*

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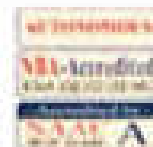
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**2018-2019**



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**CERTIFICATE**

This is to certify that the project report entitled "EXPERIMENTAL STUDY ON BITUMINOUS ROADS MODIFIED WITH CRUMB RUBBER" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Civil Engineering from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA, is a Bonafide work done by CH. MOHAN, SK. SIRAJ, CH. VENKAT, P. ANVESH with Regd. Nos: 16H75A0106, 15H71A0137, 15H71A0147, 15H71A0122 under my guidance during the academic year 2018-19 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

*Mounica. G.*

**Ms. K. MOUNICA, M Tech**

Assistant Professor

Project Guide



*Subba Rao*

**Mr. N V SUBBA RAO, M.E (PhD)**

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 Kanchikacherla, Krishna District

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**ASSESSMENT OF POPULATION GROWTH AREA UTILISATION BY  
USING GIS IN AMARAVTHI REGION**

A project report submitted to the  
**Jawaharlal Nehru Technological University Kakinada**  
In partial fulfilment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

In

**CIVIL ENGINEERING**

By

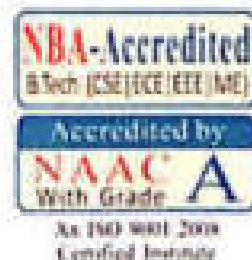
**D.MOHAN SAI (16H75A0107)**  
**R.SAITEJAREDDY (15H71A0136)**

**N. RAMANAIDU (15H71A0128)**  
**K. ANIL (15H71A0103)**

Under the Esteemed Guidance of  
**Mr. N.V.SUBBARAO, M.E, (Ph.D)**  
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**2018-2019**





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### CERTIFICATE

This is to certify that the project report entitled "ASSESSMENT OF POPULATION GROWTH AREA UTILISATION BY USING GIS IN AMARAVATHI REGION" BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA, is a bonafied work done by Mr. MOHANSAI (16H75A0107), Mr. RAMANAIDU (15H71A0128), Mr. SAITEJAREDDY (15H71A0136), Mr. ANIL (15H71A0103) under my guidance during the academic year 2018-19 and it has been suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
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Project Guide

  
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**STRENGTH AND DURABILITY STUDIES ON 3D-STEEL FIBER  
REINFORCED CONCRETE**

*A project report submitted to the*

**Jawaharlal Nehru Technological University Kakinada**

*In partial fulfilment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
in  
CIVIL ENGINEERING**

**By**

**K.SIVA MARUTHI (15H71A0139) K.GOPI CHAND (15H71A0111)  
B.TIRUMALA NAIK (15H71A0142) CH.BHUPATHI (15H71A0104)**

**Under the Esteemed Guidance of**

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**ASSISTANT PROFESSOR**

**Department of Civil Engineering**

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**2018-2019**



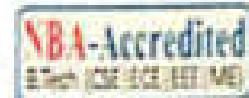
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2018-2019



### CERTIFICATE

This is to certify that the project report entitled "STRENGTH AND DURABILITY STUDIES ON 3D-STEEL FIBER REINFORCED CONCRETE" being submitted for the partial fulfilment of the requirements for the award of the course in Bachelor of Technology in Civil Engineering from Jawaharlal Nehru Technology University, Kakinada. It is bonafide work done by K.SIVAMARUTHI, K.GOPICHAND, B.TIRUMALANAİK, CH.BHUPATHI bearing 15H71A0139, 15A71A0111, 15H71A0142, 15H71A0104, of IV B.Tech submitted to DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY (JNTUK) fulfilment of B.Tech course for the award of B.Tech in Civil Engineering during the academic year 2018 -2019.

*N.S.M. Ravi Kumar*

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Assistant Professor

Project guide

*N.V. Subba Rao*

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*Y.Sudheer Babu*

Dr. Y.SUDHEER BABU, Ph.D (IITM)

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PRINCIPAL

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*External Examiner*

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**SOIL STABILIZATION BY USING SAW DUST AS AN  
ADDITIVE**

A project report submitted to the

**Jawaharlal Nehru Technological University Kakinada**

In partial fulfilment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

In

**CIVIL ENGINEERING**

By

**SK.KHASIM SAIDA (15H71A0115) M.RAJESH (15H71A0127)**  
**SK.VASEEM (15H71A0146) CH.SAI SYAMBABU (15H71A0133)**

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As per ISO 9001:2008  
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### CERTIFICATE

This is to certify that the project report entitled " SOIL STABILIZATION BY USING SAW DUST AS AN ADDITIVE " Bachelor of Technology in Civil Engineering from Jawaharlal Nehru Technological University, Kakinada is a bonafied work done by KHASIM SAIDA, SK (15H71A0115), RAJESH, M (15H71A0127), VASEEM, SK (15H71A0146), SAI SYAM BABU, CH (15H71A0133) during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
Ms. B. DURGA PRIYANKA, M.Tech  
Assistant Professor  
Project guide

  
Mr. N. V. SUBBA RAO, M.E (Ph. D)  
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Head of the department

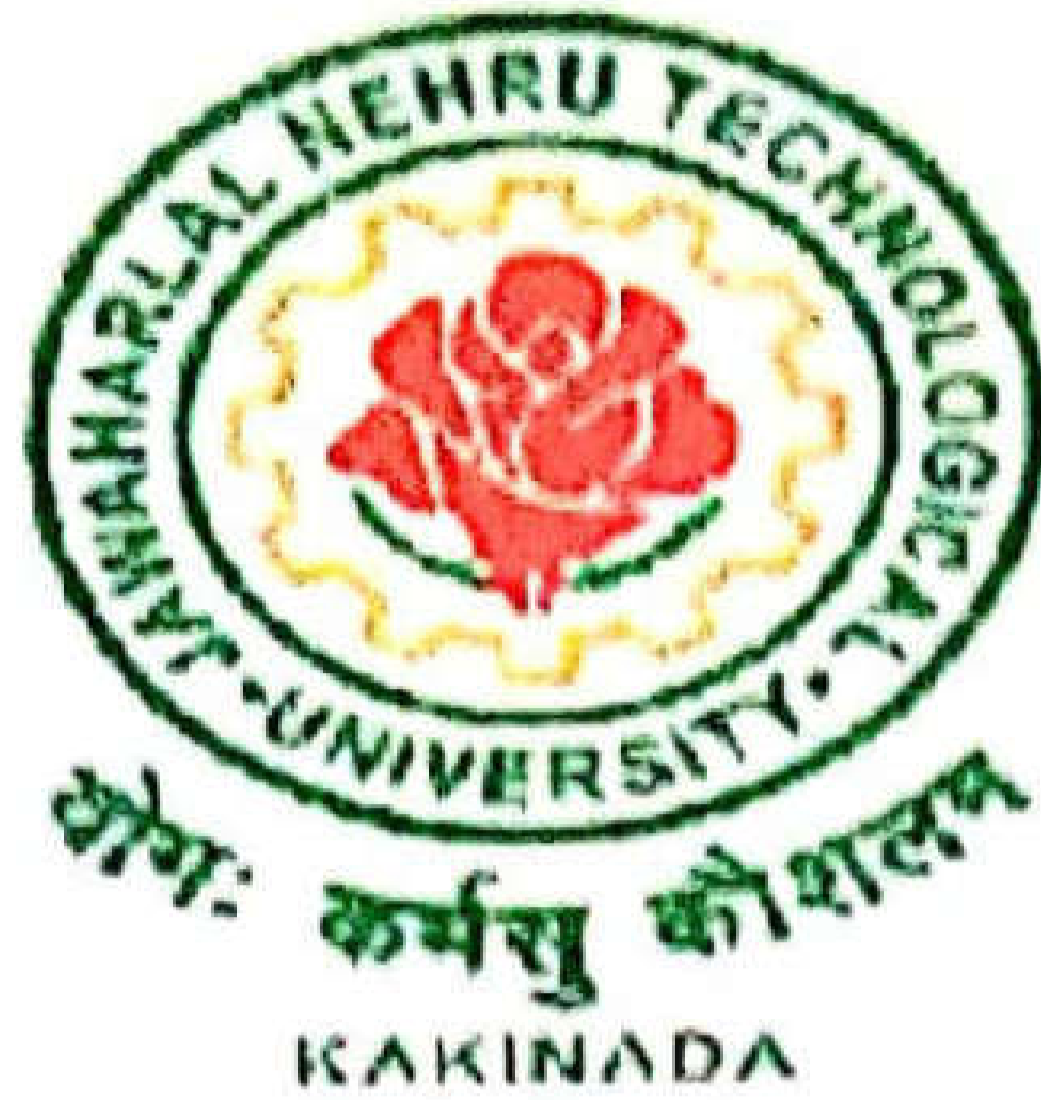


  
Dr. Y. SUDHEER BABU, Ph.D (ITM)  
Principal

  
External Examiner



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**ANALYSIS OF DRINKING WATER QUALITY AT  
GOVERNMENT SCHOOLS IN AMARAVATI REGION, ANDHRA  
PRADESH**

*A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
CIVIL ENGINEERING**

*By*

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**I. NAVEEN (15H71A0164)**

**K. RAVI KUMAR (16H75A0115)**

**SK. ROSHAN (16H75A0117)**

**G. HIMA TEJA (14H71A016P1)**

**Under the esteemed guidance of  
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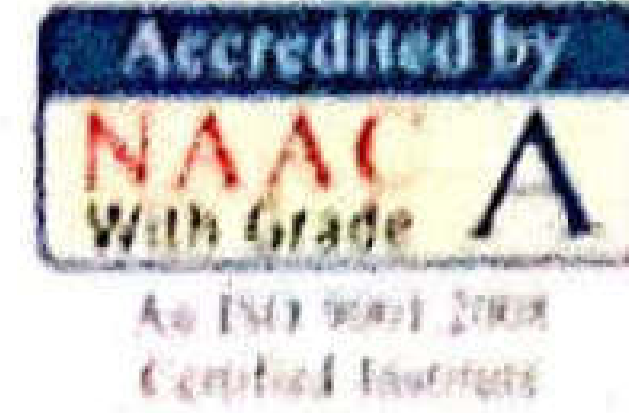


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### CERTIFICATE

This is to certify that the project report entitled “ANALYSIS OF DRINKING WATER QUALITY AT GOVERNMENT SCHOOLS IN AMARAVATI REGION, ANDHRA PRADESH” being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Civil Engineering from Jawaharlal Nehru Technological University, Kakinada. It is a bonafide work done by CH. GEETHA KEERTHI, I. NAVEEN, K. RAVI KUMAR, SK. ROSHAN, and G. HIMA TEJA bearing Reg. No. 15H71A0155, 15H71A0164, 16H75A0115, 16H75A0117, and 14H71A0161 under my guidance during the academic year 2018-'19 and it has been found suitable for acceptance according to the requirement of the University. This work is not submitted to any other institution or university for the award of any degree.

Submitted for the End Semester Examination held on.....

*Subba Rao*

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Associate Professor & Project Guide

*Subba Rao*

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*Sudheer Babu*

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**

**KAKI NADA**



**DESIGN AND ANALYSIS OF A G+4 RESIDENTIAL BUILDING**

A project report submitted to the

**Jawaharlal Nehru Technological University Kakinada**

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

in

**CIVIL ENGINEERING**

By

**K.SAI GUNA SEKHAR (16H75A0118) CH.RAVI TEJA(16H75A0116)**

**K.PRAKASH REDDY (15H71A0170) S.SIVA NAGA (15H71A0185)**

Under the esteemed guidance of

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**Assistant professor**

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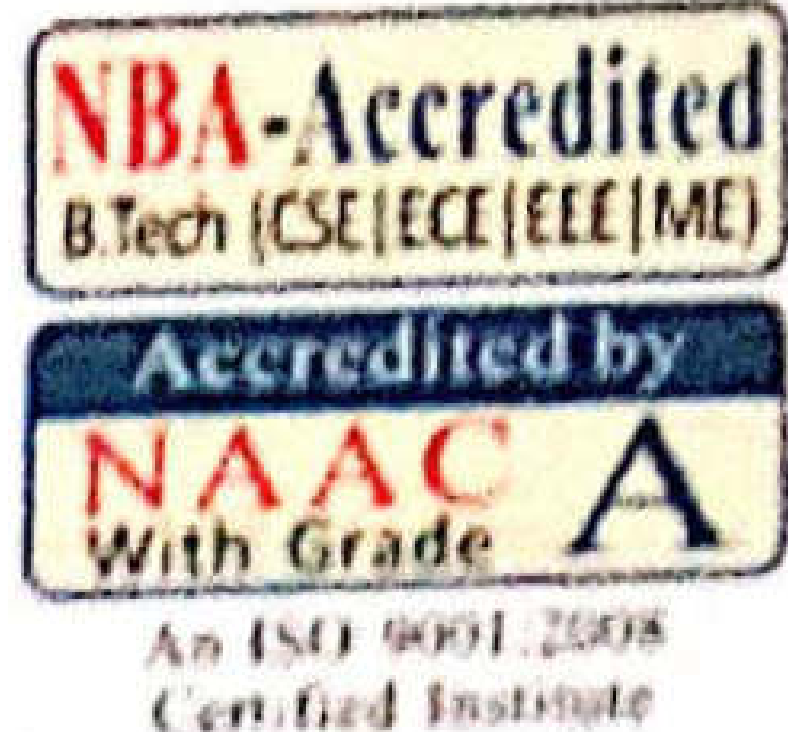




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## CERTIFICATE

This is to certify that the project report entitled “**DESIGN AND ANALYSIS OF A G+4 RESIDENTIAL BUILDING**” **BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING** from **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**, is a bonafide work done by **Mr.K.SAI GUNA SEK HAR (16H75A0118), Mr.CH.RAVITEJA(16H75A0116), Mr.K.PRAKASHREDDY(15H71A0170), Mr.S.SIVA NAGA(15H71A0185)** under my guidance during the academic year 2018-19 and it has been suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
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Assistant professor

Project Guide

  
**Mr.N.V.SubbaRao ME, (Ph.D)**

Associate professor

Head of The Department



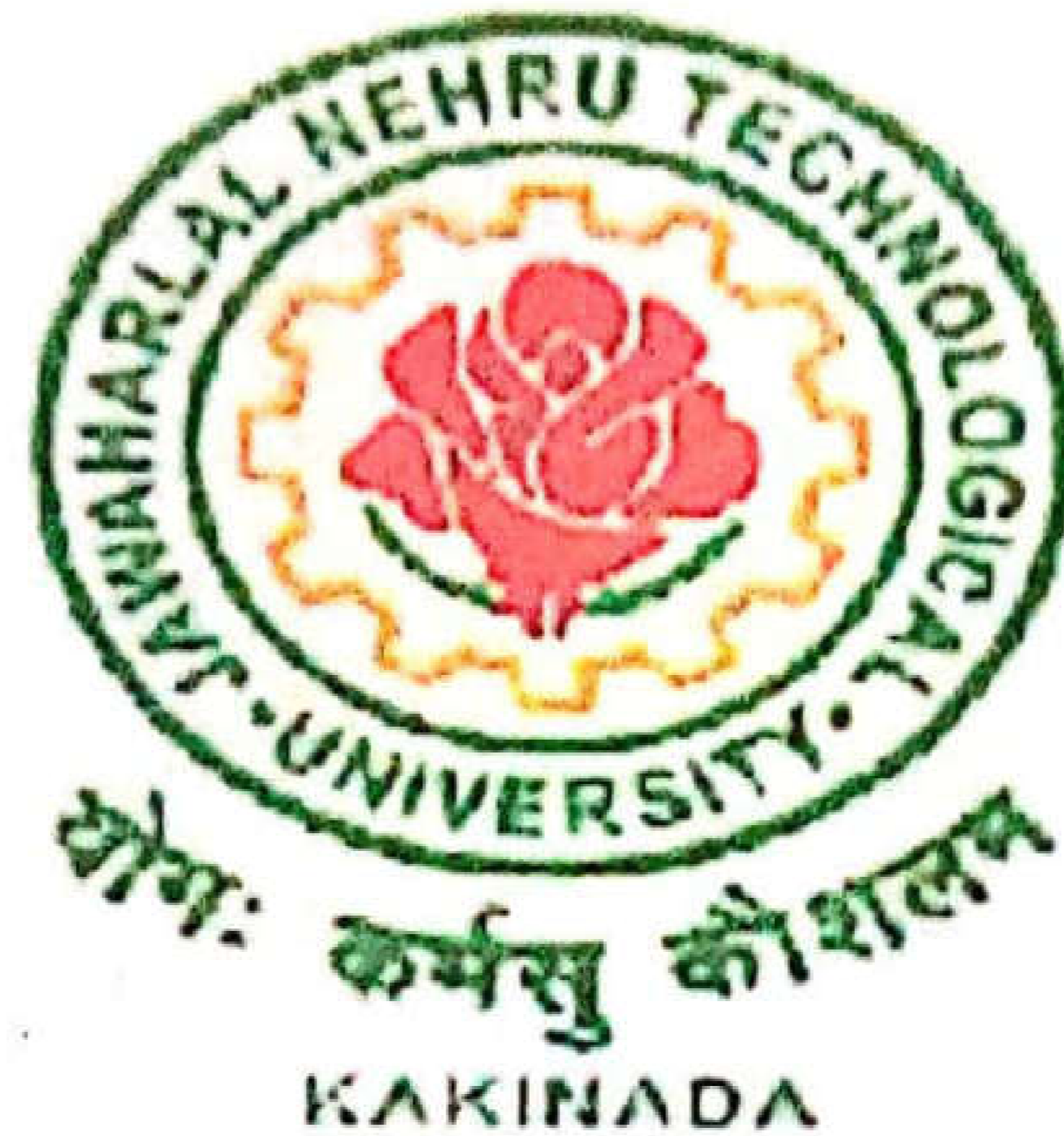
  
**Dr.Y.SudheerBabu, Ph.D (IITM)**

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**External Examiner**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**STUDY ON BEHAVIOUR OF CONCRETE BY PARTIAL  
REPLACEMENT OF CEMENT BY GGBS AND FINE  
AGGREGATES BY PLASTIC GRANULES**

*A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
CIVIL ENGINEERING**

*By*

**P. RESHMA (15H71A0178)**

**N. SHIVA (15H75A0183)**

**V. VAMSI (15H71A0192)**

**M. SARVESWARA REDDY  
(16H75A0119)**

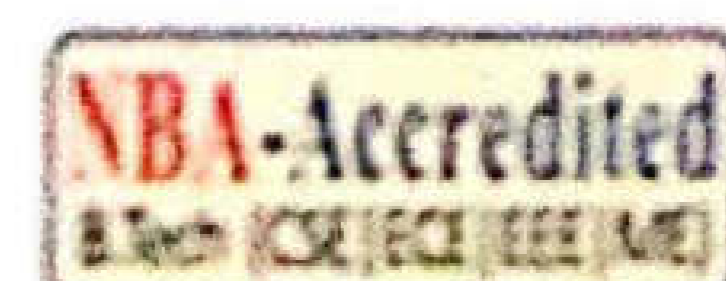
**Under the esteemed guidance of  
Ms. K.NAGA.SAI. SRAVYA  
Assistant Professor  
Department of Civil Engineering**



**Devineni Venkata Ramana & Dr.Hima Sekhar  
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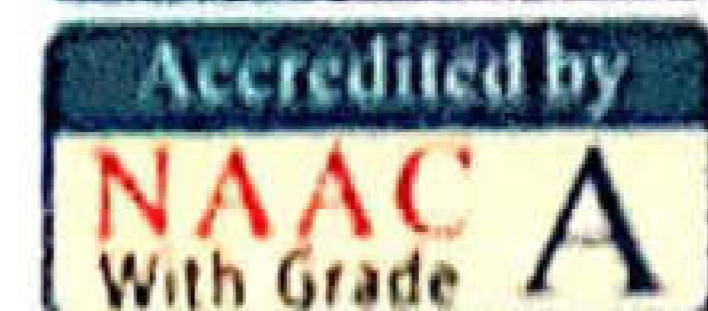
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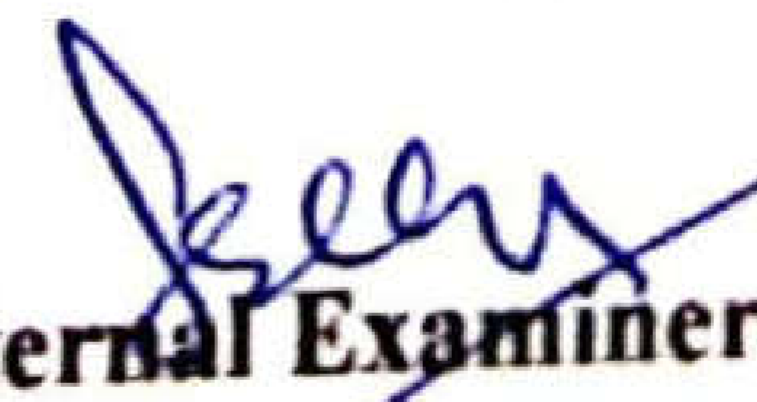
This is to certify that the project report entitled **“STUDY ON BEHAVIOUR OF CONCRETE BY PARTIAL REPLACEMENT OF CEMENT BY GGBS AND FINE AGGREGATES BY PLASTIC GRANULES”** being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Civil Engineering from Jawaharlal Nehru Technological University, Kakinada. It is a bonafide work done by **P. RESHMA, N. SHIVA, V. VAMSI and M. SARVESWARA REDDY** bearing Reg.No.15H71A0178, 15H71A0183, 15H71A0192, and 16H75A0119 under my guidance during the academic year 2018-'19 and it has been found suitable for acceptance according to the requirement of the University. This work is not submitted to any other institution or university for the award of any degree.

Submitted for the End Semester Examination held on.....

  
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Assistant Professor & Project Guide

  
Head of the Department



  
External Examiner

  
Prof. Y. SUDHEER BABU  
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**ANALYSIS & DESIGN OF MULTI-LEVEL CAR PARKING STRUCTURE  
UNDER SEISMIC ZONE-III**

A project report submitted to the  
**Jawaharlal Nehru Technological University Kakinada**

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**In**

**CIVIL ENGINEERING**

**By**

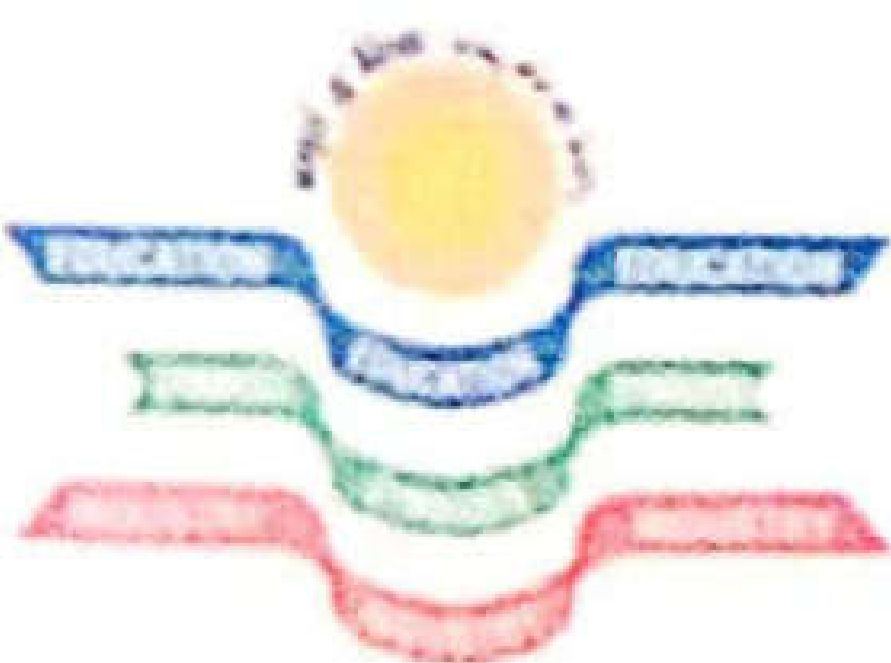
**V.VYSHNAVI (15H71A0196)**

**SK.SIMRAN BASHA (15H71A0184)**

**SK.HUSSAIN SHARIF (15H71A0157)**

**SK.HAMEED BASHA (14H71A0162)**

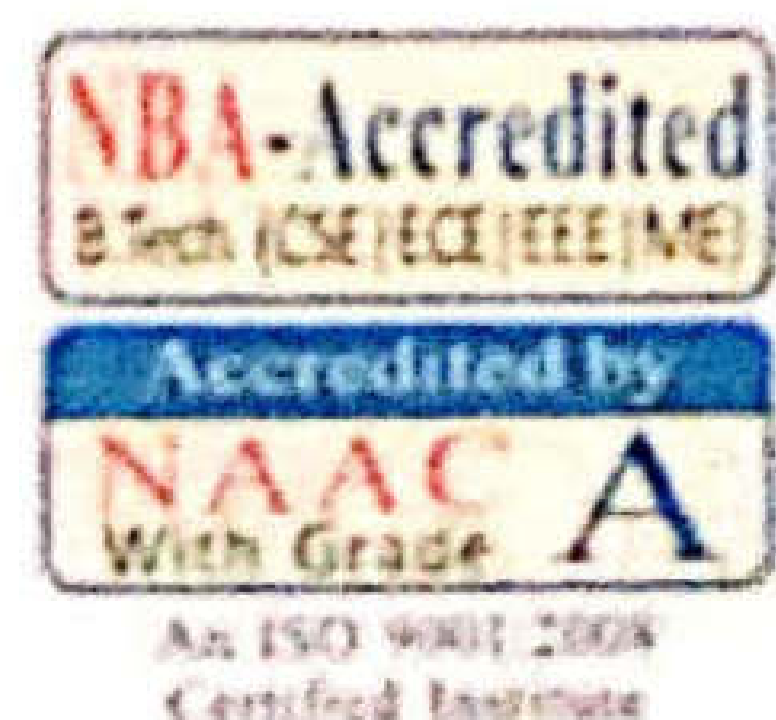
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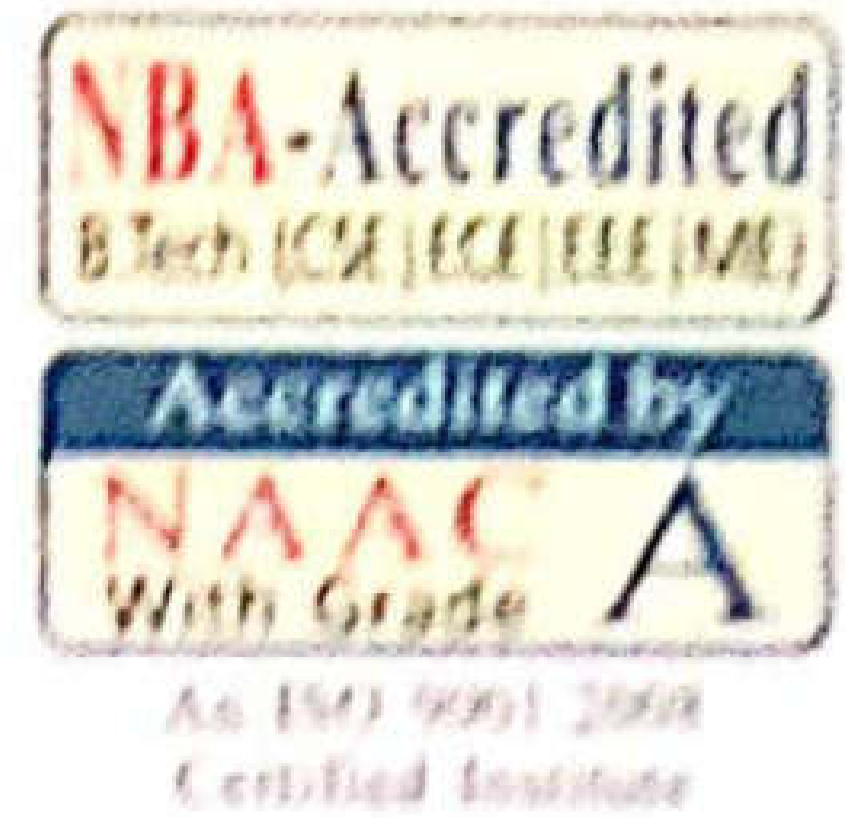




Devineni Venkata Ramana & Dr.Hima Sekhar  
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This is to certify that the project report entitled "ANALYSIS & DESIGN OF MULTI-LEVEL CAR PARKING STRUCTURE UNDER SEISMIC ZONE-III" from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA, is a bonafide work done by Ms. V.VYSHNAVI (15H71A0196), Mr. SK. SIMRANBASHA (15H71A0184), Mr. SK.HUSSAIN SHARIF (15H71A0157), Mr. SK.HAMEED BASHA (14H71A0162) under my guidance during the academic year 2018-19 and it has been suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
Ms. K. NAGA SAI SRAVYA M.Tech  
Assistant Professor  
Project Guide

  
Mr. N.V.SUBBA RAO ME. (Ph.D)  
Associate Professor  
Head of the Department



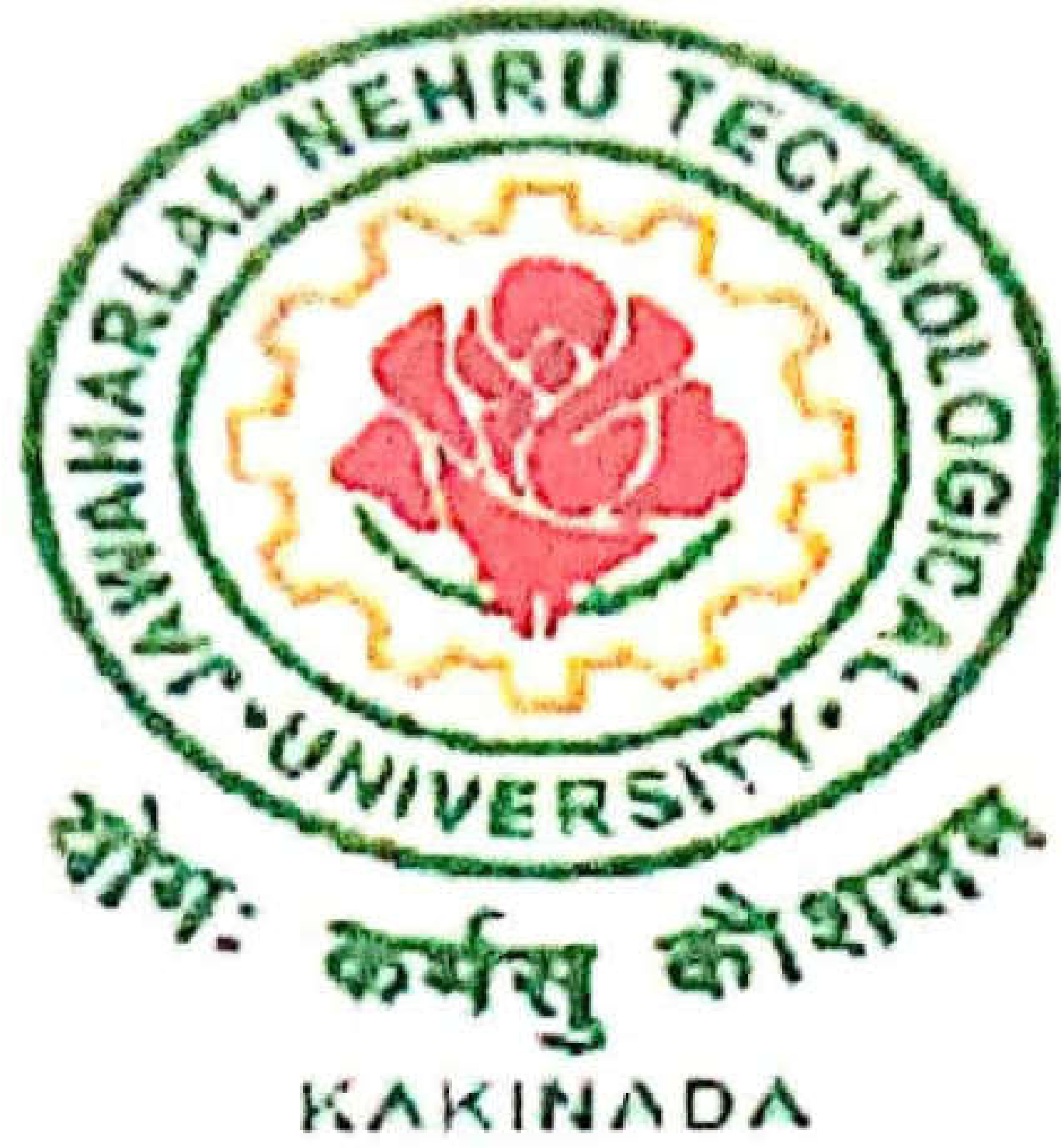
  
Dr. Y. SUDHEER BABU, Ph.D (IITM)

  
EXTERNAL EXAMINER

Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL  
Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**DESIGN AND ANALYSIS OF A STEEL INDUSTRIAL SHED**

*A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
CIVIL ENGINEERING**

*By*

**M. NAGA SWATHI MANI (16H75A0109)**

**N. NARENDRA (16H75A0111)**

**B. TARUN GOPAL (15H71A0189)**

**K.SAI SRI HARSHA(15H71A180)**

**Under the esteemed guidance of  
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Assistant Professor  
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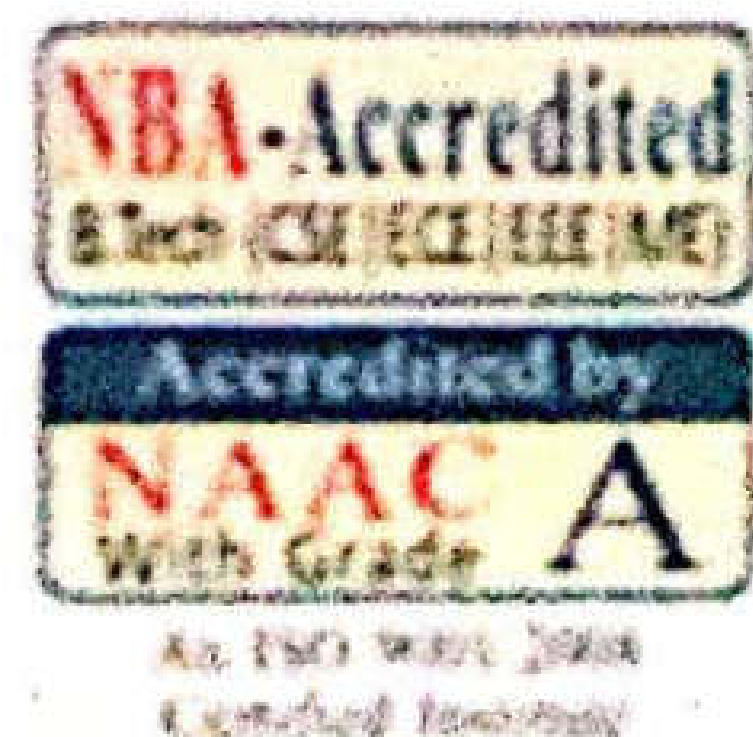
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**NBA-Accredited**  
B.Tech (CSE|ECE|EEE|ME)

Accredited by  
**NAAC**  
With Grade **A**

An ISO 9001:2008  
Certified Institute

## CERTIFICATE

This is to certify that the project report entitled "Design and analysis of steel industrial shed" being submitted for the partial fulfillment of the requirements for the award of the degree in bachelor of technology in Civil Engineering from Jawaharlal Nehru Technological University, Kakinada. Is abonafide work done by M. Naga Swathi Mani (16H75A0109),

N. Narendra (16H75A0111), B. TarunGopal (15H71A0189),K. Sai Sri Harsha (15H71A0180) under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for award of any degree.

*N. S. M. Ravi Kumar*  
Mr. N.S.M.Ravi Kumar, M.Tech  
Assistant Professor  
Project Guide

*N. V. Subbarao*  
Mr. N.V. Subbarao, M.E (Ph.d)  
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Dr. Y. Sudheer Babu, M.Tech, PhD, IITM

*Y. Sudheer Babu*  
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Principal

Devineni Venkata Ramana & Dr. Himasekhar  
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*J. Green*  
External Examiner

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**

**KAKINADA**



**DESIGN OF STABLE IRRIGATION CHANNEL FOR  
INTERLINKING OF GODAVARI & PENNA RIVERS**

**A project report submitted to the**

**Jawaharlal Nehru Technological University Kakinada**

**In partial fulfillment for the award of the degree of**

**BACHELOR OF TECHNOLOGY**

**IN**

**CIVIL ENGINEERING**

**BY**

**M. RAMYA (15H71A0176)**

**V. ADISESHU (15H71A0151)**

**B. HARIKA (15H71A0156)**

**B. KOUSHIK (15H71A0191)**

**Under the esteemed guidance of**

**Mr. R. NAVEEN KUMAR, M. Tech**

**Assistant Professor**

**Department of Civil Engineering**



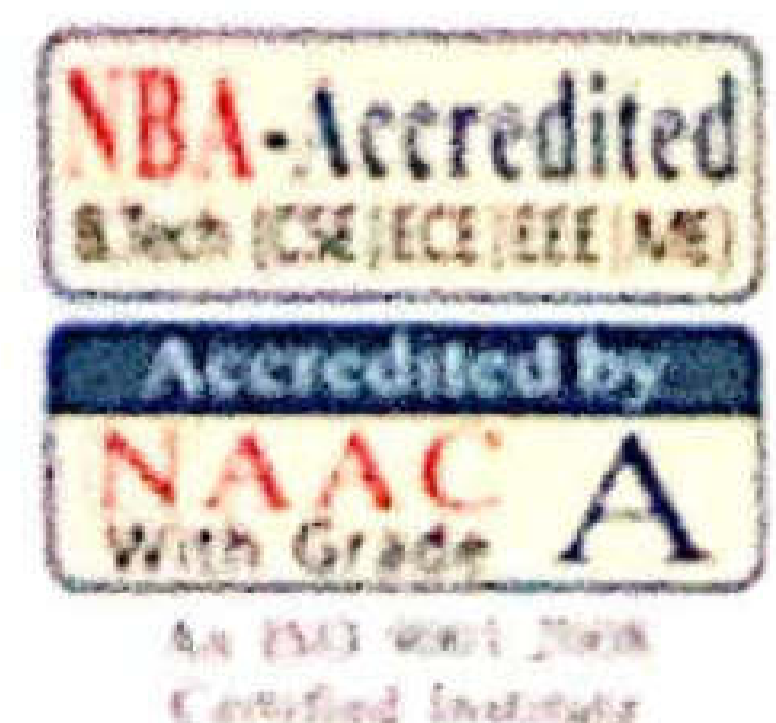
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## CERTIFICATE

This is to certify that the project report entitled “**DESIGN OF STABLE IRRIGATION CHANNEL FOR INTERLINKING OF GODAVARI & PENNA RIVERS** ” being submitted for the partial fulfillment of the requirements for the award of the degree in bachelor of technology in **Civil Engineering** from **Jawaharlal Nehru Technological University, Kakinada**. Is a bonafide work done by **M.RAMYA (15H71A0176), B. HARIKA (15H71A0156), V. ADISESHU (15H71A0151), B. KOUSHIK (15H71A0191)** under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for award of any degree.

Submitted for the End Semester Examination held on.....

  
**Mr. R. NAVEEN KUMAR, M.Tech**  
Assistant Professor  
Project Guide



  
**Mr. N.V.SUBBARAO, M.E**  
Associate Professor  
Head of the department

  
**Dr. Y. SUDHEER BABU, M.Tech, PhD, IITM**

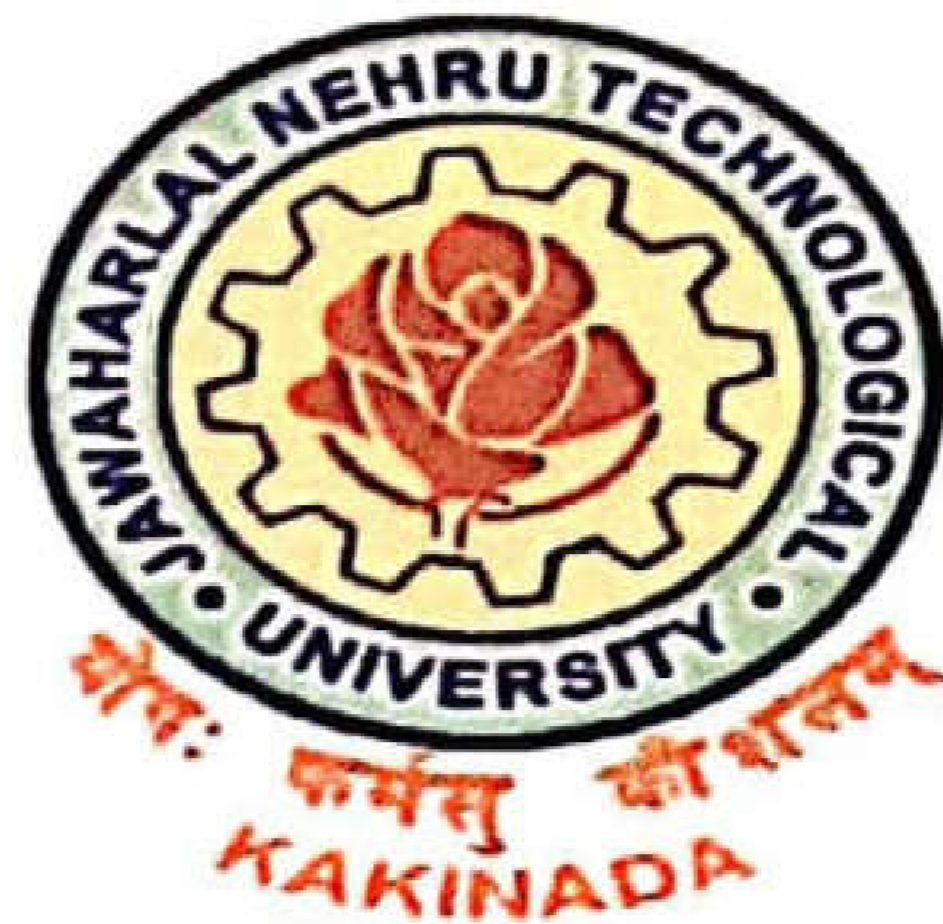
  
**External Examiner**

  
**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
PRINCIPAL

Devineni Venkata Ramana & Dr. Himasekhar  
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KANCHIKACHERLA, Krishna District

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**

**KAKINADA**



**STRENGTHENING OF BITUMINOUS MATERIAL USING  
EGGSHELL & STONE DUST AS FILLERS**

**A project report submitted to the**

**Jawaharlal Nehru Technological University Kakinada**

**In partial fulfillment for the award of the degree of**

**BACHELOR OF TECHNOLOGY**

**IN**

**CIVIL ENGINEERING**

**BY**

**T.MOHAN KRISHNA (15H71A0161)**

**K.RAJA SEKHAR (15H71A0174)**

**SK.ZAHEER BABA (16H75A0124)**

**SK.ASIF PASHA (15H71A0153)**

**Under the guidance of**

**Mr. J. DIVAKAR, M. Tech**

**Assistant Professor**



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**Department of Civil Engineering**



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B.Tech (CSE|ECE|EEE|ME)

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**NAAC**  
With Grade **A**


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## CERTIFICATE

This is to certify that the project report entitled "**STRENGTHENING OF BITUMINOUS MATERIAL USING EGG SHELL & STONE DUST AS FILLERS**" being submitted for the partial fulfillment of the requirements for the award of the degree in bachelor of technology in Civil Engineering from Jawaharlal Nehru Technological University, Kakinada. Is a bonafide work done by **T. MOHAN KRISHNA (15H71A0161), K. RAJA SEKHAR (15H71A0174), SK ZAHEER BABA (16H75A0124), SK. ASIF PASHA (15H71A0153)** under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for award of any degree.

  
**Mr. J. Divakar, M.Tech**  
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Project Guide




  
**Mr. N.V. Subbarao, M.E**  
Associate Professor  
Head of the department

  
**Dr. Y. Sudheer Babu, M.Tech, PhD, IITM**  
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**DELINEATION AND ASSESSMENT OF WATERSHED  
USING GEOGRAPHICAL INFORMATION SYSTEM (GIS)**

A project report submitted to the

**Jawaharlal Nehru Technological University Kakinada**

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

In

**CIVIL ENGINEERING**

By

**P. RAVI TEJA (15H71A0177)**

**P. PAVA NAGA SAI KUMAR (15H71A0169)**

**S. VINAY KUMAR (16H75A0123)**

**A. PAVAN BHAVANI KUMAR (15H71A0167)**

Under the esteemed guidance of

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## CERTIFICATE

This is to certify that the project report entitled "DELINEATION AND ASSESSMENT OF WATERSHED USING GEOGRAPHICAL INFORMATION SYSTEM" from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA, is a bonafide work done by Mr. P. RAVI TEJA (15H71A0177), Mr. P. PAVAN NAGA SAI KUMAR (15H71A0169), Mr. S. VINAY KUMAR (16H75A0123), Mr. A. PAVAN BHAVANI KUMAR (15H71A0167) during the academic year 2018-19 and it has been suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

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Assistant Professor

Project Guide

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Associate Professor

Head of the Department



Dr. Y. Sudheer Babu, Ph.D. (IITM)

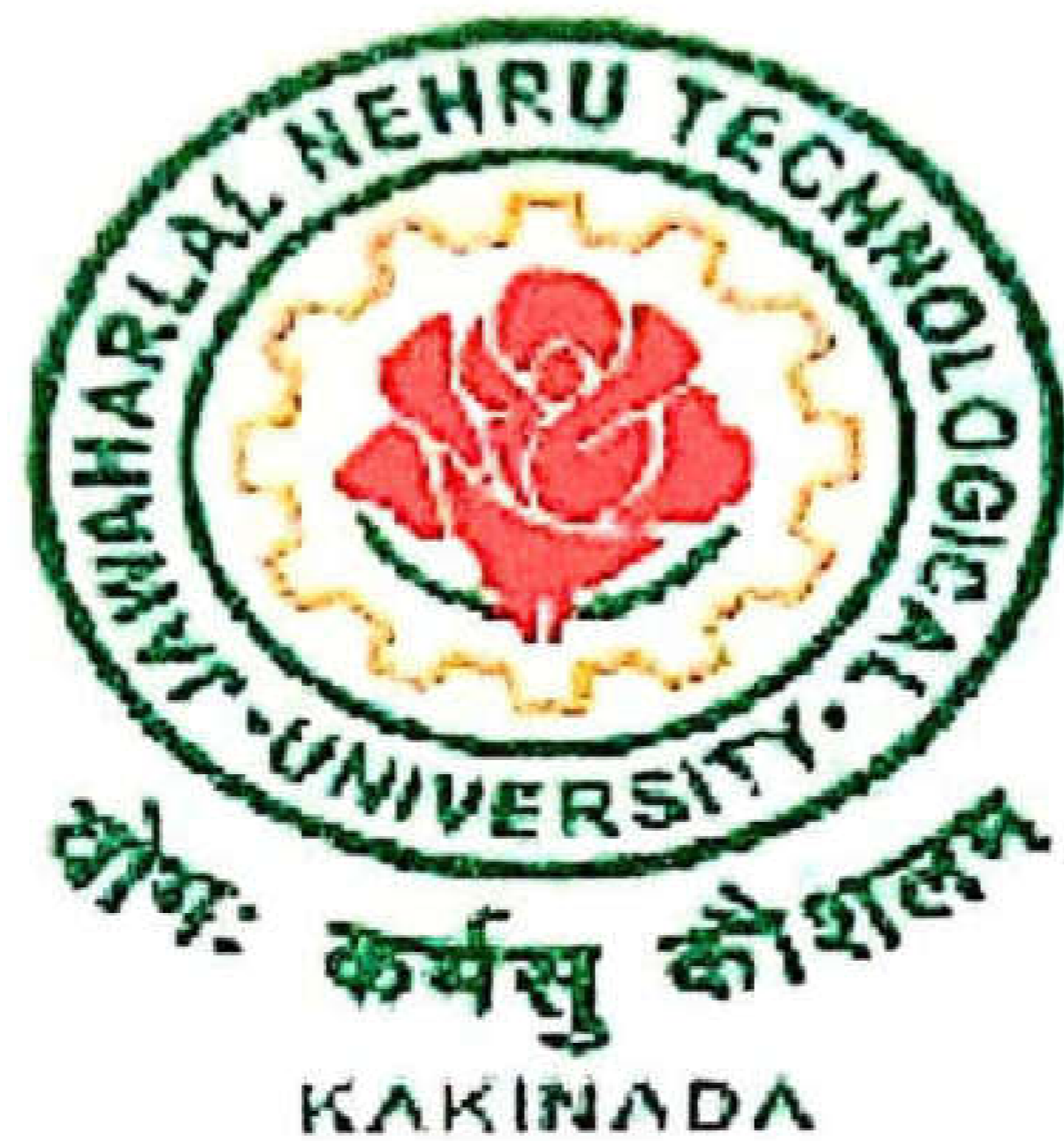
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PRINCIPAL

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KANCHIKACHERLA, Krishna District

EXTERNAL EXAMINER



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**EXPERIMENTAL STUDIES ON PARTIAL REPLACEMENT OF  
FINE AGGREGATE WITH QUARRY DUST IN CONCRETE**

A project report submitted to the  
**Jawaharlal Nehru Technological University Kakinada**  
In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
CIVIL ENGINEERING**

By

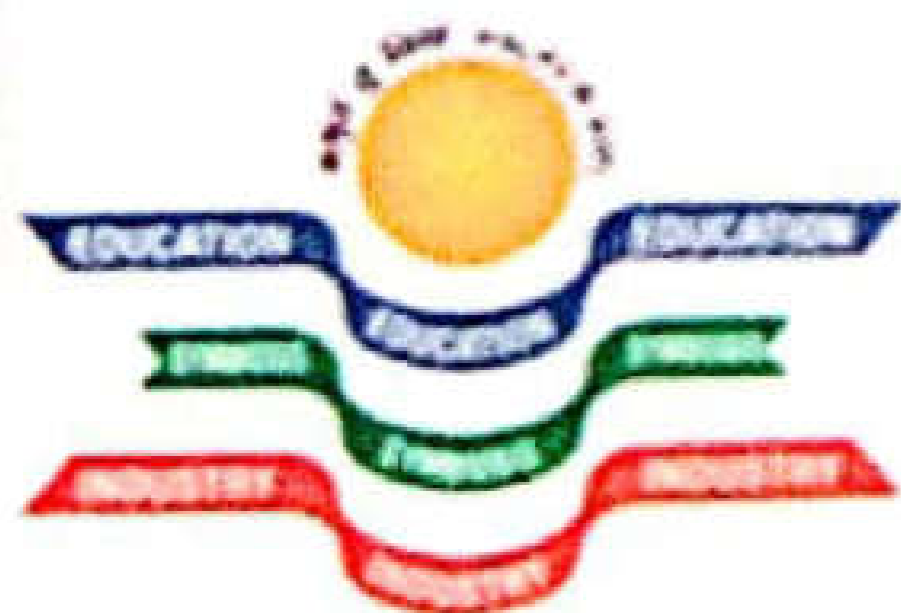
**M. VENKATESH (16H75A0121)**

**K. VIJAY VARDHAN (16H75A0122)**

**J. MALLIKARJUN (15H71A0160)**

**D. SRI VASTAV (15H71A0188)**

Under the esteemed guidance of  
**Mr. P. SATHIBABU**  
Assistant Professor  
Department of Civil Engineering



**Devineni Venkata Ramana & Dr. Hima Sekhar**  
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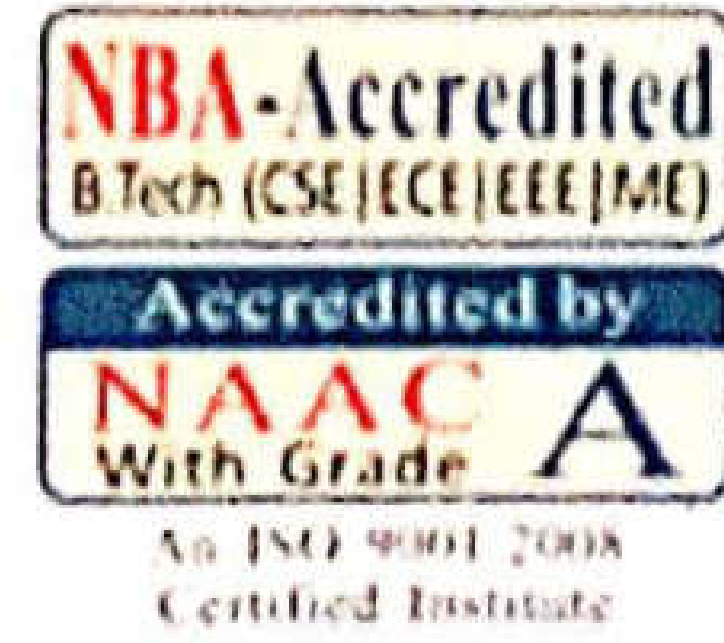
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## CERTIFICATE

This is to certify that the project report entitled "**EXPERIMENTAL STUDIES ON PARTIAL REPLACEMENT OF FINE AGGREGATE WITH QUARRY DUST IN CONCRETE**" being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Civil Engineering** from **Jawaharlal Nehru Technological University, Kakinada**, It is a benefited work done by **M.VENKATESH, K.VIJAY VARDHAN, J.MALLIKARJUN, D.SRI VASTAV**, bearing Regd.Nos.16H75A0121, 16H75A0122, 15H71A0160, 15H71A0188, under my guidance during the academic year 2018-19 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
**Mr. P.SATHIBABU**

Assistant Professor

**Project Guide**



  
**Mr.N.V SUBBA RAO M.E(Ph.D.),**

Associate Professor

**Head of the Department**

  
**Dr.Y. SUDHEER BABU Ph.D., IITM**  
**Dr.Y. SUDHEER BABU, Ph.D, IITM**  
**Principal**

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**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

  
**EXAMINER**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**

**KAKINADA**



**ESTIMATION AND COSTING OF A G+3 RESIDENTIAL BUILDING**

A project report submitted to the

**Jawaharlal Nehru Technological University Kakinada**

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

in

**CIVIL ENGINEERING**

By

**B.SATEESH (15H71A0182)**

**D.NARENDRA(16H75A0110)**

**G.PRASANNAKUMAR(16H75A0112) CH.SAIRAM(15H71A0187)**

Under the esteemed guidance of

**Mr. Y. NIKHIL, M-Tech**

**Assistant Professor**

**Department of Civil Engineering**

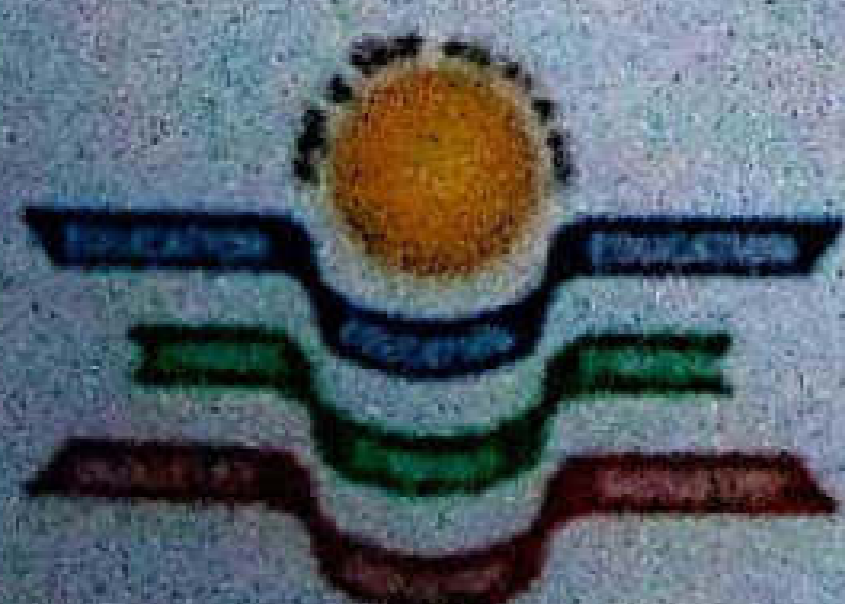
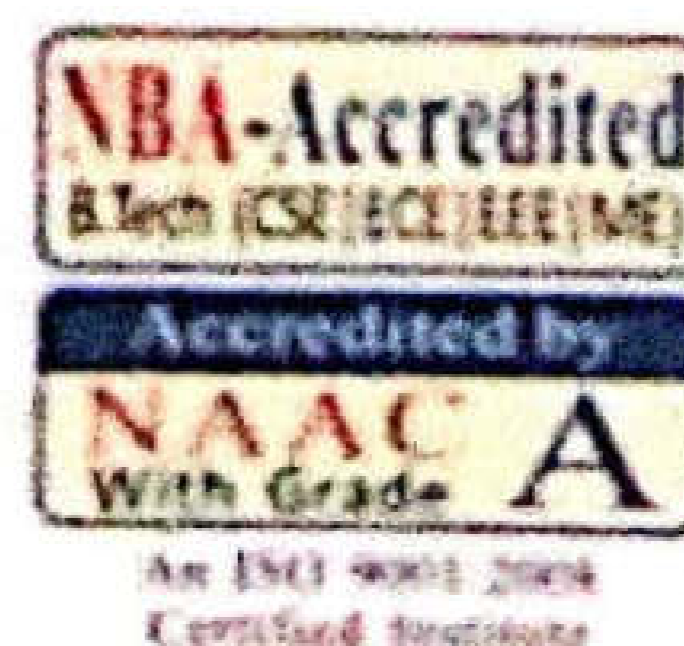
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With Grade **A**

An ISO 9001:2008  
Certified Institute

## CERTIFICATE

This is to certify that the project report entitled "ESTIMATION AND COSTING OF A G+3 RESIDENTIAL BUILDING" from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA, is a bonafied work done by Mr.B.SATEESH (15H71A0182), Mr.D.NARENDRA(16H75A0110), Mr.G.PRASANNAKUMAR (16H75A0112), Mr.CH.SAIRAM (15H71A0187) under my guidance during the academic year 2018-19 as it has been suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

**Mr. Y. NIKHIL M-Tech**  
Assistant professor  
Project Guide



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Associate Professor  
Head of the Department

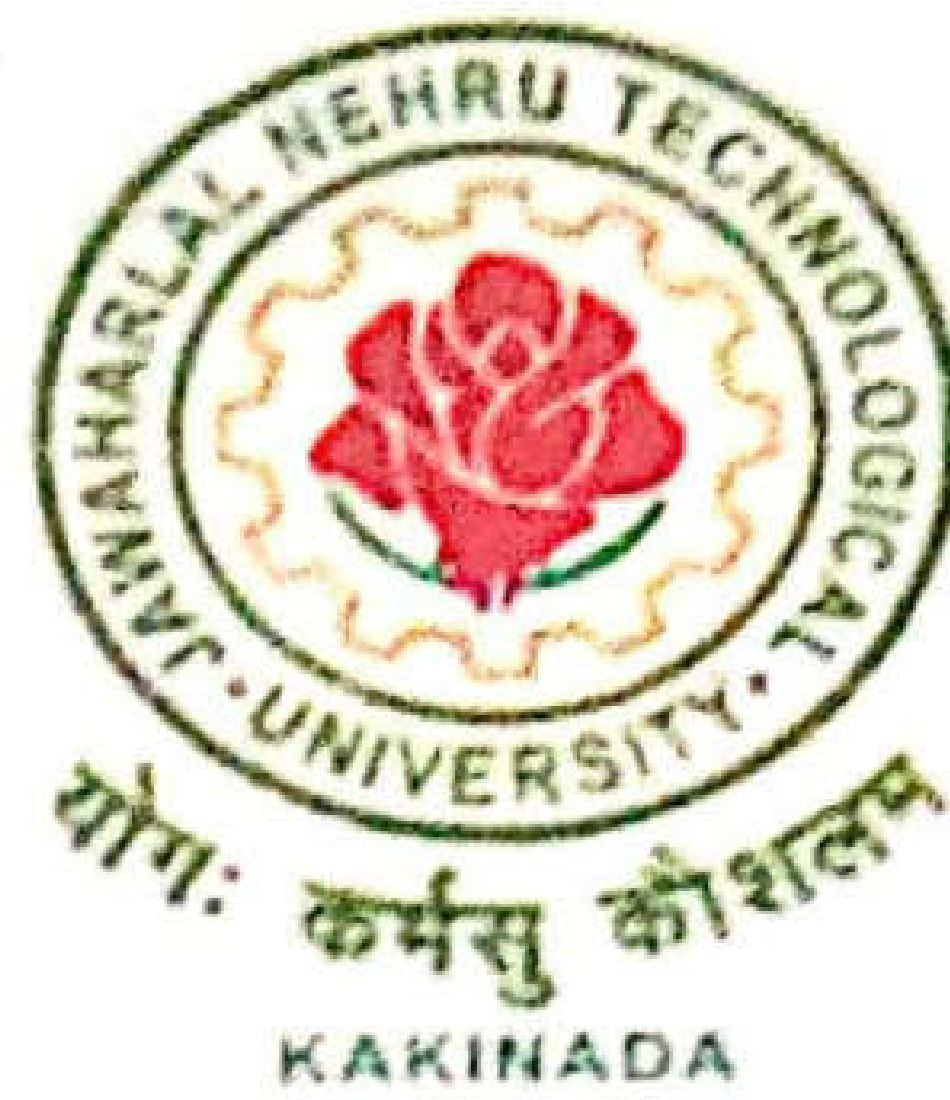
**Dr. Y. SUDHEER BABU, Ph.D (IITM)**

Principal

**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
PRINCIPAL

Devineni Venkata Ramana & Dr.Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

**EXTERNAL EXAMINER**



**ANALYSIS AND ESTIMATION OF VEHICULAR UNDERPASS (VUP)**

A Project Report submitted to  
**Jawaharlal Nehru Technological University Kakinada**  
in partial fulfillment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**CIVIL ENGINEERING**

Submitted by

**T. RamaKrishna (15H71A0175)**

**B. Vineel Kiran (15H71A0195)**

**D. RamaKrishna (16H75A0114)**

**M. Ashok Reddy (15H71A0152)**

Under the Guidance of

**Mr. Ajay Kumar Verma**

Assistant Professor

**DEPARTMENT OF CIVIL ENGINEERING**

**Devineni Venkata Ramana & Dr.Hima Sekhar**  
**MIC College of Technology**

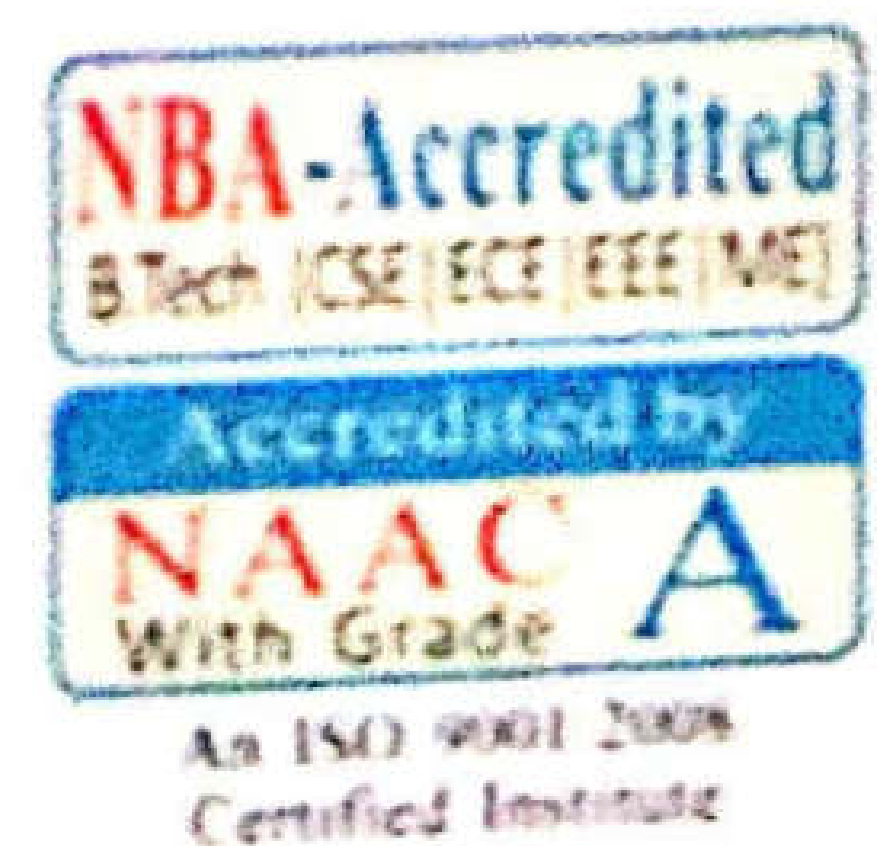
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**2018-2019**





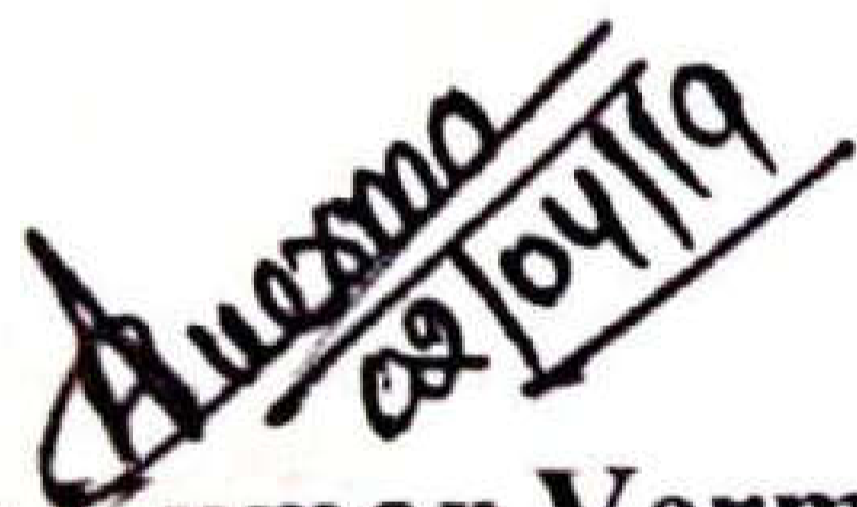
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## DEPARTMENT OF CIVIL ENGINEERING

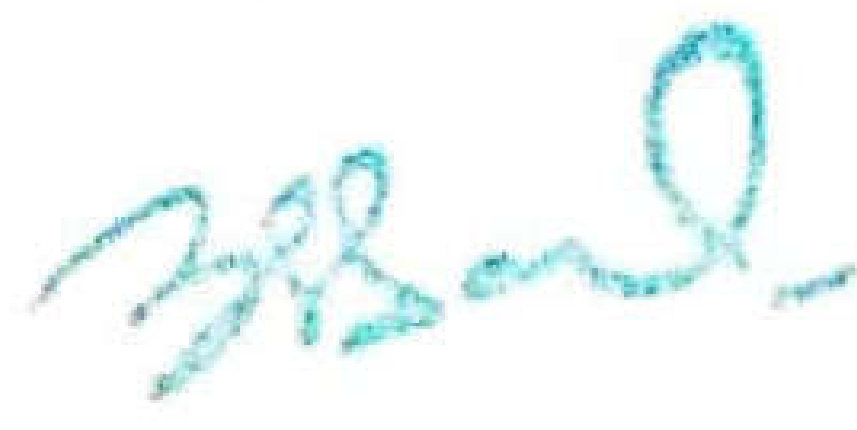
### CERTIFICATE


This is to certify that the project work ent**ANALYSIS AND ESTIMATION OF VEHICULAR UNDERPASS (VUP)** is a bonafied work carried out by **Mr. RAMAKRISHNA. T (15H71A0175), Mr. RAMAKRISHNA. D (16H75A0114), Mr. VINEEL KIRAN. B (15H71A0195), Mr. ASHOK REDDY. M (15H71A0152)** in partial fulfillment for the award of the degree of Bachelor of Technology in Civil Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

  
**Mr. Ajay Kumar Verma**  
(Project Guide)



  
**Mr. N. V. SubbaRao**  
(Head of the Department)

  
**Prof. Y. Sudheer Babu, Ph.D (IITM)**  
Principal  
Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna Distric'

  
**External Examiner**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**DESIGN OF OVERHEAD TANK AND WATER  
DISTRIBUTION SYSTEM FOR A VILLAGE USING  
WATERCAD**

A project report submitted to the

**Jawaharlal Nehru Technological University Kakinada**

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**In**

**CIVIL ENGINEERING**

**By**

**N. JASWANTH (15H71A0158)**

**K. NAGA KOTESWARA RAO (15H71A0162)**

**K. VENKATA TEJA (15H71A0193) J. NIHARIKA (15H71A0165)**

Under the esteemed guidance of

**Mr. CH. P. S. SAINADH, M.Tech**

**Assistant Professor**

**Department Of Civil Engineering**



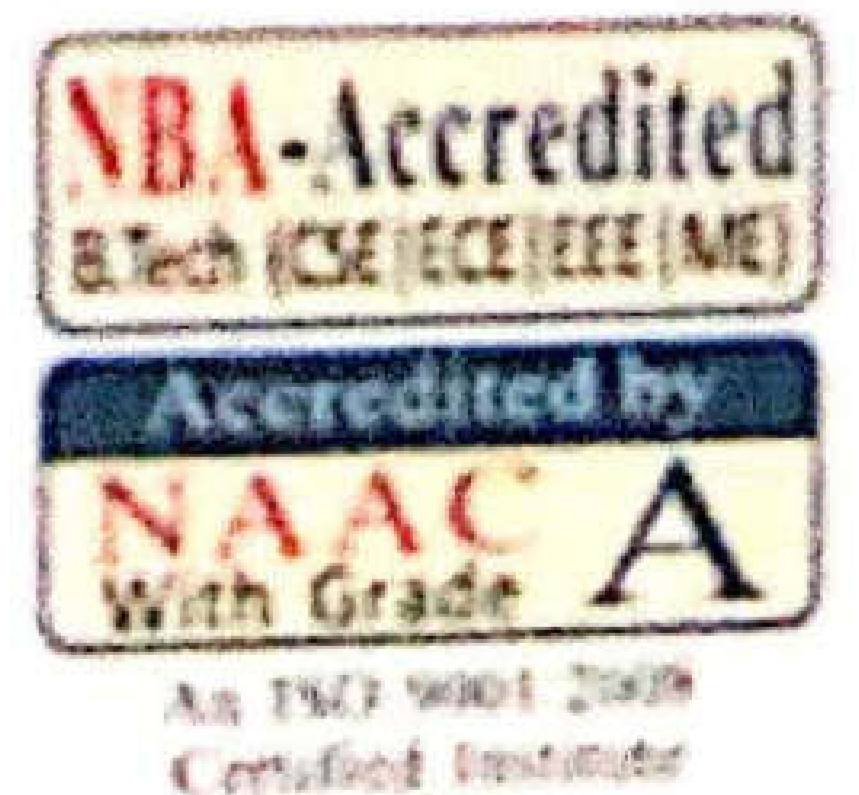
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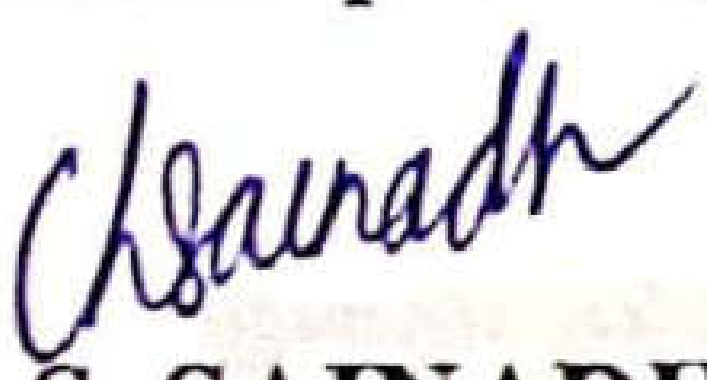


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## CERTIFICATE

This is to certify that the project report entitled “**DESIGN OF OVERHEAD TANK AND WATER DISTRIBUTION SYSTEM FOR A VILLAGE BY USING WATERCAD SOFTWARE**” from **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**, is a bonafied work done by **Mr. N. JASWANTH (15H71A0158)**, **Mr. K. NAGA KOTESWARA RAO (15H71A0162)**, **Mr. K. VENKAT TEJA (15H71A0193)**, **Ms. J. NIHARIKA (15H71A0165)** under my guidance during the academic year 2018-19 and it has been suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
**Ms. CH. P. S. SAINADH, M.Tech**

Assistant Professor

Project Guide

  
**Mr. N.V.Subba Rao ME., (Ph.D.)**

Associate Professor

Head of the Department




  
**Dr. Y. Sudheer Babu, Ph.D. (IITM)**

Principal

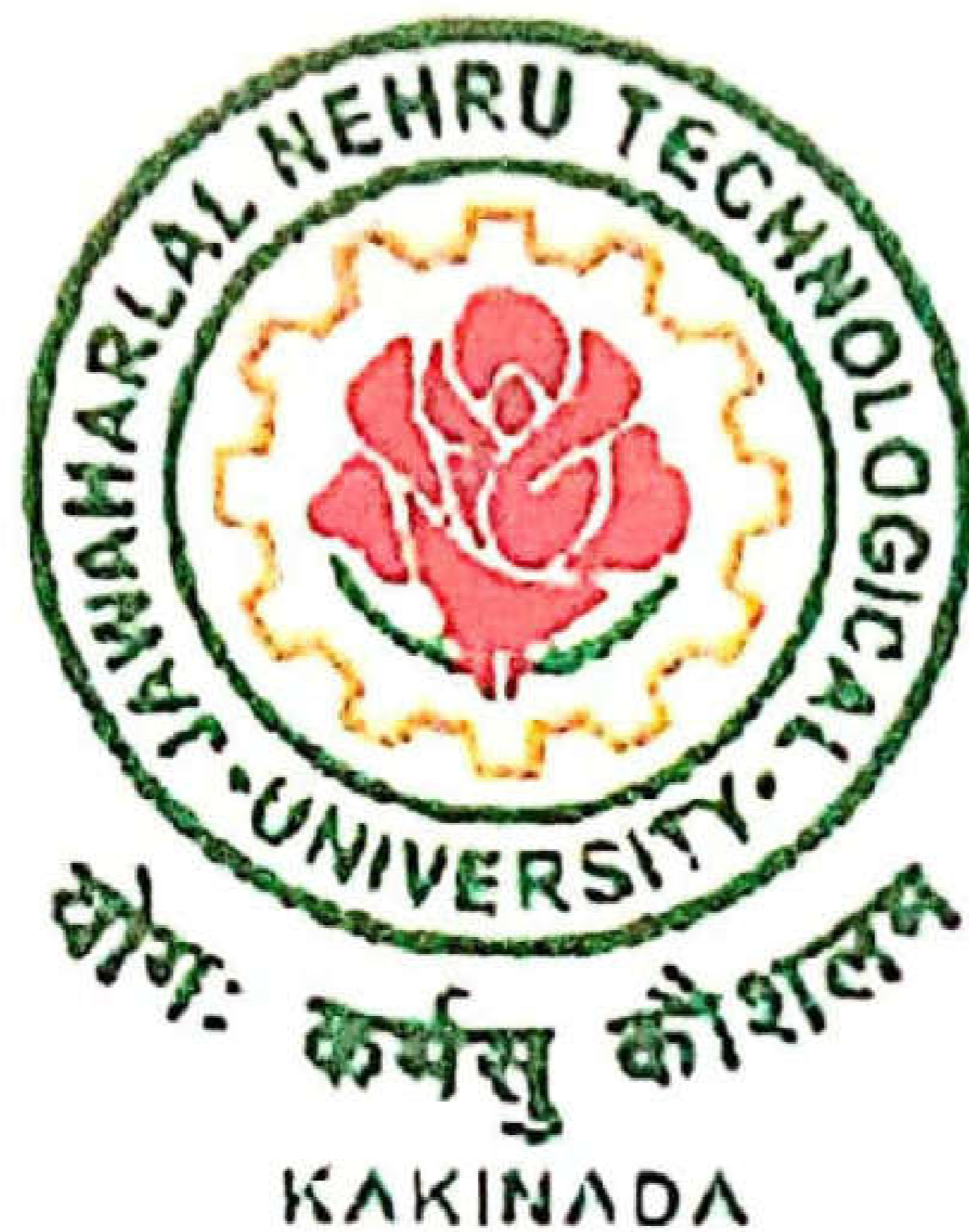
**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
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**EXTERNAL EXAMINER**



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**NUMERICAL MODELING OF CABLE STAYED BRIDGE USING SAP**

*A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
CIVIL ENGINEERING**

*By*

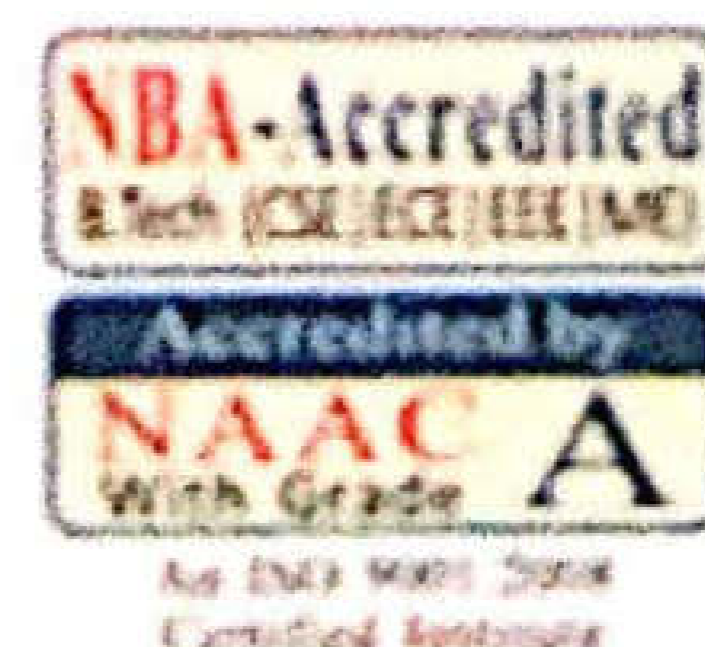
**M. SAI TEJA (15H71A0181)  
P. FAREED KHAN (15H71A0166)**

**M. PAVAN KALYAN (15H71A0168)  
S. PRUDHVI (15H71A0172)**

**Under the esteemed guidance of  
Dr. S. SYED IBRAHIM  
Associate Professor  
Department of Civil Engineering  
2015 – 2019**



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B.Tech (CSA | ECE | EEE | ME)

**Accredited by**  
**NAAC**  
With Grade **A**  
An ISO 9001:2008  
Certified Institute

## CERTIFICATE

This is to certify that the project report entitled **“NUMERICAL MODELING OF CABLE STAYED BRIDGE USING SAP”** being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Civil Engineering** from **Jawaharlal Nehru Technological University, Kakinada**. It is a bonafide work done by **M. SAI TEJA, M. PAVAN KALYAN, P. FAREED KHAN, and S. PRUDHVI** bearing Reg. No. 15H71A0181, 15H71A0168, 15H71A0166, and 15H71A0172, under my guidance during the academic year 2018 - '19 and it has been found suitable for acceptance according to the requirement of the University. This work is not submitted to any other institution or university for the award of any degree.

Submitted for the End Semester Examination held on.....

**Dr. S. SYED IBRAHIM**

Associate Professor & Project Guide

  
**Mr. N. V. SUBBA RAO**

Head of the Department

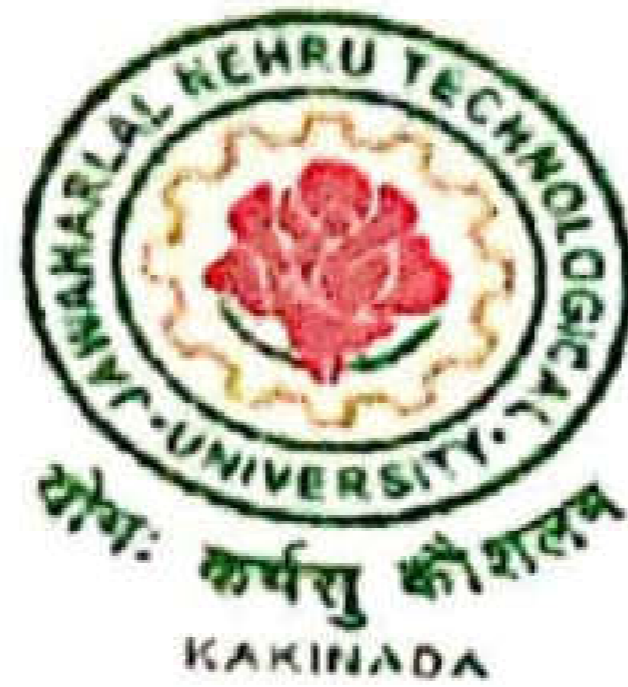
**Prof. Y. SUDHEER BABU**

Principal  
**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
PRINCIPAL

Devineni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

  
**External Examiner**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**ANALYSIS AND DESIGN OF DOMED AUDITORIUM  
BUILDING**

*A project report submitted to the*  
**Jawaharlal Nehru Technological University Kakinada**  
*In partial fulfillment for the award of the degree of*  
**BACHELOR OF TECHNOLOGY**  
**IN**  
**CIVIL ENGINEERING**

By

**P.SAIKIRAN (15H71A0179)**

**T. THRIKANTH (15H71A0190)**

**P. PRUDHVI NAGA SAI (16H75A0113)**

**M.VINAY KUMAR (15H71A0194)**

Under the esteemed guidance of

**Dr. S. SYED IBHRAHIM**

Associate Professor

**DEPARTMENT OF CIVIL ENGINEERING**



**Devineni Venkata Ramana & Dr.Hima Sekhar**  
**MIC College of Technology**

(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)

Kanchikacherla - 521180, Krishna Dist, A.P. India

Phone: 08678 - 273533, 273623. Fax: 08678 - 273569

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As per ISO 9001:2008  
Certified Institute

**2015-2019**



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

(Approved by AICTE & Permanently Affiliated to JNTU K. Kakinada)

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 e-mail: devineni@mictech.ac.in, Website: www.mictech.ac.in




As 1503 9001 2008  
 Certified Institute

## CERTIFICATE

This is to certify that the project report entitled “**ANALYSIS AND DESIGN OF DOMED AUDITORIUM BUILDING**” being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Civil Engineering** from **Jawaharlal Nehru Technological University, Kakinada**. It is a bonafide work done by **P. SAIKIRAN, T. THRIKANTH, P. PRUDHVI NAGA SAI, and M. VINAY KUMAR** bearing Reg. No. 15H71A0179, 15H71A0190, 16H75A0113, and 15H71A0194 under my guidance during the academic year 2018-'19 and it has been found suitable for acceptance according to the requirement of the University. This work is not submitted to any other institution or university for the award of any degree.


Submitted for the End Semester Examination held on.....

  
**Dr. S. SYED IBRAHIM**

Associate Professor & Project Guide


  
 Head of the Department



  
**Prof. Y. SUDHEER BABU**  
 Principal

Dr. Y. SUDHEER BABU, Ph.D., IITM  
 PRINCIPAL

Devineni Venkata Ramana & Dr Hima Sekhar  
 MIC College of Technology  
 KANCHIKACHERLA, Krishna District

  
 External Examiner



**Project guide allotment**

**EEE – F 031**

DEPARTMENT:E.E.E

DATE: 04/12/2018

ACADEMIC YEAR:2018-19

SEMESTER:IV/II(A)

Batch No.	Regd.no	Name of the Student	Internal Guide	Project Title
1	16H75A0221	D.Yoga Harshitha	Dr. T.Vamsee Kiran	Autonomous Military Surveillance robot
	15H71A0204	K.Bhanu Prakash		
	16H75A0206	P.Kiran Pumar		
	15H71A0229	K.Soroj Kumar		
	15H71A0214	Ch.Kranthi Kumar		
2	15H71A0230	S. Sirisha	Dr.S.Sateesh Sukahvasi	Solar Based Pesticide Sprayer
	15H71A0231	S.Siva Gopi Krishna		
	15H71A0238	P.V.V.N.Vamsi Krishna		
3	15H71A0205	M.D.N prasuna.	Dr.deepak Kumar	Design and Analysis of 204Ghz Rectenna
	16H75A0217	K.Thirupathi rao		
	16H75A0210	M.Pavani		
	15H71A0217	D.M.C.S.Kumar		
4	15H71A0233	T.S.N.Pravallika	Mr.P.Pradeep	Design & Implementation of Anti ATM Machine
	15H71A0203	M.Anil Kumar		
	16H75A0218	K.V.D.S.Pranav		
	16H75A0205	D.Jayaram		
5	16H75A0208	P.Nagarajuna	Mr.M.Nagaswara Rao	IOT Based Smart Grid System Using Arduino
	15H71A0232	K. Sri Krishna		
	15H71A0209	B.Gopi Krishna		
	16H75A0214	B.Sai Vijay Babu		
6	15H71A0216	M.Lakshmi Priyanka	Mr. N. Rajesh Babu	Password based circuit breaker using GSM
	16H75A0209	B.Neeraj		



Devineni Venkata Ramana & Dr.Hima Sekhar  
**MIC College of Technology**

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	15H71A0236	G.Srujana		module
	16H75A0219	V.Vinay		
7	16H75A0215	S.Siva Krishna	Mr.K.N.Swamy	Wireless Auto Power Tripping GSM Alert System During LPG Gas Leakage
	15H71A0210	B.Gopi Krishna		
	16H75A0211	A.prashnath		
	16H75A0203	R.D.Rao		
8	15H71A0224	J.Pavan Kumar	Mr. M. Sunil Kumar	Accident Prevention Using Eye Blinking & Alcoholic Sensor
	16H75A0202	G.Dinesh		
	15H71A0222	P.Naveen		
	15H71A0240	Vinod Kumar		
9	15H71A0221	A.Naga Lakshmi	Mr.P.Pradeep	Unmanned level crossing controller
	15H71A0212	G.Jaya Kirshna Reddy		
	15H71A0215	K.Kranthi Mani		
	16H75A0213	D.Ratna Bose		
10	15H71A0239	A.Vinod Kumar	Mr.M.Ramesh	Speed Control on Sensitive zones using RF control
	16H75A0212	B. Raghu		
	15H71A0218	SK.Mehajanbee		
	16H75A0207	B. M. Reddy		
11	15H71A0211	M. Jagadish	Mr.M.Tharun	Performance of Virtual Synchronous Machines Autonomous Mode of Operation
	15H71A0223	Naveena Rasi		
	15H71A0220	SK Muzeeb		
	15H71A0207	M.Gideon		
12	15H71A0227	K .rama Lakshmi	Mr.K.N.swami	Improvement of Hybrid Bike and Air Pollution Reduction
	15H71A0213	B.Jyothirmai		
	16H75A0216	G. Surendra		
	16H75A0222	N.Y.V.Subrahmanyam		
13	15H71A0228	T.Ramya Sree	Mr.M.Rammohan	Optimal Reactive power Dispatch Using Farmland Fertility Algorithm
	15H71A0234	K.Sri tejaswi		
	16H75A0204	P.Hema Sundra		
14	15H71A0206	Ch.V.ramu	Mr.V.sriram	GSM and GPS based air pollution monitoring for vehicles
	15H71A0226	M.p.latha		
	15H71A0201	Y.Akhil		
	16H75A0220	U.Yedukondalu		
	15H71A0206	Ch.V.ramu		

**Project Coordinator**

**Head of the Department**



PROJECT GUIDE ALLOTMENT

EEE – F031

DEPARTMENT:E.E.E

Date: 04/12/2018

ACADEMIC YEAR:2018-19

Semester: IV/II(B)

Batch No.	Regd.no	Name of the Student	Internal Guide	Project Title
1	15H71A0259	V.Pavani	Mr.N.Venu Babu	Gesture Controlled Robot Using Arduino Uno
	15H71A0262	N.Basava Raju		
	16H75A0223	N.Ram Gopi		
2	15H71A0254	K.Lakshmi	Mrs.N,Renuka Devi	Monitoring and Control of substation using Arduino with GSM
	16H75A0239	P. Swetha		
	14H71A0262	M. Jagadish		
3	15H71A0272	T.Sravani	Dr.S.Sateesh Sukhavasi	IOT Based air Pollution Monitoring System Using Arduino
	15H71A0260	M.Raj Kumar		
	15H71A0263	P.Rami Reddy		
	14H71A0235	K.Sai Gur Dev		
4	15H71A0269	SK.Saidabee	Mis.P Durga Bhavani	Smart Vision For The Blind
	16H75A0225	M.Gopichand		
	16H75A0267	CH.Trinadh		
	14H71A0279	V.Sai Kiran		
5	16H75A0236	E.Sai Kumar	Dr.T.Vsee Kiran	Vertical Axis wind Turbine
	15H71A0237	S.Shyam sundar		
	15H71A0228	T.K.chaitnaya		
6	16H75A0226	P.Jahnnavi	Mr.S.Ravikanth	Energy Preserving System for Smart Grid
	15H71A0242	G.Anvesh Sai		
	16H75A0231	M.Naveen		
	15H71A0241	J.Alekhya		
7	15H71A0251	S Kavya sri	Mr.A.V Ravi Kumar	Speed control of dc motor using arduino and GSM modem
	15H71A0258	K Nagarjuna		
	15H71A0256	M.Malleswara		



Devineni Venkata Ramana & Dr.Hima Sekhar  
**MIC College of Technology**

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e-mail: drhima@micctech.ac.in, Website: www.micctech.ac.in



	15H71A0268	Priyanka		
8	15H71A0244	K.B.LNiharika	Dr.Deepak Kumar	An Improved Single Stage Transformer less Photovoltaic Inverter Connected To Grid
	15H71A0265	D.Ramya Sree		
	15H71A0255	T.L.Puja		
	15H71A0248	B.Hemanth		
9	16H75A0240	J.Uma Bharathi	Mr.Ajith Kumar Singh	Powering The Electric Car With Dynamos
	16H75A0242	A,Yesubabu		
	16H75A0230	Naga Prasad		
	15H71A0275	Ch.Suchitha		
10	16H75A0224	A.D.Naveena	Mr.N.Rajesh Babu	GSM Based Industrial Protection System
	15H71A0270	R.Sainadh		
	15H71A0264	G.Ramya		
11	16H75A0241	S.Vinay Kumar	Mr.P.Vishnu	IOT Application For High Power Water Pumps
	16H75A0266	K.Ravi Verma		
	15H71A0253	T.K.Chaitanya		
	15H71A0245	K.Chiranjeevi		
12	15H71A0250	K.Jagadeesh	Mr.P.Gangadher	Speed Control Of DC Motor Using PID Controller
	15H71A0276	P.V.M .Sudha		
	14H71A0289	M.V.T.Trinadh		
	15H71A0247	SK.G.M.Ameeruddin		
13	15H71A0252	K.Keerthy	Mr.T.Jayaraju	Development of ant rigging voting system using finger prints based on Arduino
	15H71A0246	M.Dhana Lakshmi		
	16H75A0229	D.Manjunath		
	16H75A0238	K.S.T.V.Chari		
14	16H75A0232	B.Pavan Kumar	Dr.T.Vamsee Kiran	Bird Repeller Using Ultrasonic Sound Generator Near Airports
	16H75A0227	J.Kevin Kumar		
	16H75A0201	T.Balaji Sai		

**Project Coordinator**

**Head of the Department**



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



AN IMPROVED SINGLE PHASE SINGLE STAGE BUCK BOOST  
CONVERTER CONNECTED TO GRID

A project report submitted to the  
Jawaharlal Nehru Technological University, Kakinada  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
in

ELECTRICAL AND ELECTRONICS ENGINEERING

By

K.R.L. Niharika (1907160204)

D.Ramesh Babu (1907160205)

T.Lakshmi Prasad (1907160206)

R.Hemant (1907160208)

Under the personal guidance of

Dr. Deepak Kumar, M.Tech, Ph.D.

Associate Professor

Department of EEE

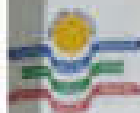


Jawaharlal Nehru Technological University  
MIC College of Technology

Kakinada - 530 015 & Machilipatnam - 521 002  
Established in 1979 & 1984 respectively



2019-20



Jawaharlal Nehru Technological University  
MIC College of Technology

Kakinada - 530 015 & Machilipatnam - 521 002  
Established in 1979 & 1984 respectively



CERTIFICATE

It is to certify that the final project entitled "AN IMPROVED SINGLE PHASE SINGLE STAGE TRANSFORMERLESS PHOTOVOLTAIC INVERTER CONNECTED TO GRID" being submitted for the partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University Kakinada, is a feasible work done by K.R.L. Niharika, D.Ramesh Babu, T.Lakshmi Prasad, R.Hemant under my guidance during the academic year 2019-2020 and it has been found suitable for acceptance according to the requirements of the university. This work is not submitted to any other institution or university for the award of any degree.

  
Dr. Deepak Kumar, M.Tech, Ph.D.  
Associate Professor  
Project Guide



  
Dr. T.V. Venkatesh Kiran, M.E., Ph.D.  
Professor &

Head of the Department  
Electrical & Electronics Engineering  
JNTU & Dr. J.S. MIC College of Technology  
Kakinada-530 015 & Machilipatnam - 521 002

  
Dr. V. Sathya Babu, M.Tech, Ph.D.  
Principal

  
MIC College of Technology  
Kakinada-530 015

Examiners



**"MILEAGE IMPROVEMENT OF BIKE AND REDUCTION OF AIR POLLUTION USING HHO GENERATOR"**

Submitted by  
Bachelard Policy Technological University Karinaga  
in partial fulfillment for the award of the Degree of

**BACHELOR OF TECHNOLOGY**



**ELECTRICAL & ELECTRONICS ENGINEERING**

Submitted by

**KRAMEA LAKSMINI (190714027)**      **R. ANISTERNAMA (190714027)**  
**GURENDRA BARI (190714027)**      **A.Y. SUBIRMANAN (190714027)**

Under the Esteemed Guidance of  
**Mr. K.A. SWAMY, M.Tech., (Ph.D.)**  
Assistant Professor

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**



**MIC College of Technology**

Approved by AICTE, JAWABALA POLYTECHNIC & KARINAGA, 19/08/2019  
Karlsruhe - 70708, Baden-Württemberg, Germany

2019-2021



**MIC College of Technology**

Approved by AICTE, JAWABALA POLYTECHNIC & KARINAGA, 19/08/2019  
Karlsruhe - 70708, Baden-Württemberg, Germany



2019-2021

**CERTIFICATE**

This is to certify that the Main Project entitled **"MILEAGE IMPROVEMENT OF BIKE AND REDUCTION OF AIR POLLUTION USING HHO GENERATOR"** is a feasible work carried out by **KRAMEA LAKSMINI (190714027), R. ANISTERNAMA (190714027), GURENDRA BARI (190714027), A.Y. SUBIRMANAN (190714027)**, in partial fulfillment for the award of Degree of Bachelor of Technology in Electrical & Electronics Engineering of Jawabala NERBU Technological University Karinaga during the year 2019-20.

**Mr. K.A. SWAMY, M.Tech., (Ph.D.)**

Project Guide

**Dr. U. VAMSEE KIRAN, M.E., (Ph.D.)**

Head of the Department



**Dr. U. SUBBEEBARI, M.Tech., (Ph.D.)**  
Dr. T. SURESH CHANDRAN

Principal

Approved by AICTE, JAWABALA POLYTECHNIC & KARINAGA, 19/08/2019  
Karlsruhe - 70708, Baden-Württemberg, Germany

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KARNATAKA



VOICE CONTROL ROBOT BY ARDUINO UNO

A project report submitted to the  
Jawaharlal Nehru Technological University, Karnataka  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

in

ELECTRICAL AND ELECTRONICS ENGINEERING

By

S. PAVANI (19B1704009)

S. RAJAYARAM (19B1704022)

S. RAM GOPY (19B1704040)

Under the esteemed guidance of

DR. N. VENU RAO, B.E., Ph.D.

Assistant Professor

Department of EEE



Devises: Venkatesh Hanuman & Dr. Hema Schar  
MIC College of Technology

Accredited by NBA, ISO 9001:2015 & NAAC 'A' Grade  
Karnataka - 575006, Mysuru Dist. K.A.



2018-19



Devises: Venkatesh Hanuman & Dr. Hema Schar  
MIC College of Technology

Accredited by NBA, ISO 9001:2015 & NAAC 'A' Grade  
Karnataka - 575006, Mysuru Dist. K.A.



2018-2019

**CERTIFICATE**

This is to certify that the project report entitled "VOICE CONTROL ROBOT BY ARDUINO UNO" being partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Karnataka, is finished with a mark of 75 by S. Pavani (19B1704009), S. Rajayaram (19B1704022), S. Ram Gopy (19B1704040) under my guidance during the academic year 2018-19 and it has been found suitable for presentation according to the requirements of the university. This work is not submitted in any other institution or university for the award of any degree.

DR. N. VENU RAO, B.E., Ph.D.

Assistant Professor

Project guide



DR. T. VENKATESH KUMAR, B.E., Ph.D.

Professor

Head of the Department of  
Electrical & Electronics Engineering  
MIC & T. J. College of Technology  
Karnataka-575006, Mysuru Dist. K.A.

DR. V. SATHISH BABU, B.E., Ph.D.

Principal

MIC College of Technology  
Karnataka-575006, Mysuru Dist. K.A.

EXAMINER

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**SMART VISION FOR THE BLIND**

A project report submitted to the  
Jawaharlal Nehru Technological University, Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

in

**ELECTRICAL AND ELECTRONICS ENGINEERING**

by

M. GUNJI MANOJ (2017140040)  
D. SARABABAI (2017140041)

CH. TRIVIAADH (2017140042)  
Y. ADI KIRAN (2017140043)

Under the esteemed guidance of  
Mrs. P. Deepa Shreevani, M. Tech,  
Assistant Professor  
Department of EEE

Deemed to be University  
**MIC College of Technology**

Approved by AICTE & Recognized Affiliated to JNTU, Kakinada  
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2018-19



Deemed to be University  
**MIC College of Technology**

Approved by AICTE & Recognized Affiliated to JNTU, Kakinada  
Kakinada - 531002, Andhra Pradesh, India



**CERTIFICATE**

This is to certify that this team project report entitled "SMART VISION FOR THE BLIND" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Kakinada, is a creative work done by M.Gunji Manoj, D. Sarababai, Ch. Triviaadh, Y. Adikiran under my guidance during the academic year 2018-19 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
Dr. P. Deepa Shreevani, M. Tech

Assistant Professor

Project Guide



  
Dr. T. Vasanthakumari, M. Tech

Professor

Head of the Department  
Electrical & Electronics Engineering  
MIC & DE MIC College of Technology  
Kakinada-531002, Andhra Pradesh, India

  
Dr. Y. SUDHEER BABU, M. Tech, Ph.D.

Principal  
Principal

Assistant Professor & Sr. Researcher  
MIC College of Technology  
Kakinada-531002, India

Examiner



**GNM AND GPS BASED AIR POLLUTION MONITORING FOR VEHICLES**

A project report submitted to the  
Jawaharlal Nehru Technological University, Karnataka

In partial fulfillment for the award of the degree of  
**BACHELOR OF TECHNOLOGY**

**IN**  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

- 1. CHEVENKATA RAMI (15071A0206)
- 2. SRIPUNHA LATHA (15071A0205)
- 3. Y. ARJUN (15071A0201)
- 4. V. VEERESHDALE (16079A0210)

Under the esteemed guidance of

**Mr. V. SHIRAM, M.Tech.**  
Assistant Professor  
Department of EEE

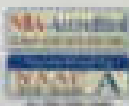


*Distance Education Branches @ 20+ Cities Under*  
**MIC College of Technology**

Approved by AICTE & Recognized by UGC, Karnataka  
Kannur Branch - 571301, Kollatahala, AP, India  
Phone: 08476-27101, Fax: 08476-27102

E-mail: [admission@miccol.ac.in](mailto:admission@miccol.ac.in), website: [www.miccol.ac.in](http://www.miccol.ac.in)

2018-19



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Approved by AICTE & Recognized by UGC, Karnataka  
Kannur Branch - 571301, Kollatahala, AP, India  
Phone: 08476-27101, Fax: 08476-27102

E-mail: [admission@miccol.ac.in](mailto:admission@miccol.ac.in), website: [www.miccol.ac.in](http://www.miccol.ac.in)

2018-19



**CERTIFICATE**

This is to certify that the project report entitled "**GNM AND GPS BASED AIR POLLUTION MONITORING FOR VEHICLES**" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Karnataka, is a bona fide work done by CHEVENKATA RAMI (15071A0206), SRIPUNHA LATHA (15071A0205), Y. ARJUN (15071A0201) and V. VEERESHDALE (16079A0210) under my guidance during the academic year 2018-19 and that same meets the requirements according to the requirements of the university. This work is not submitted to any other university or university for the award of any degree.

*Signature*  
Mr. V. Shiram, M.Tech.  
Assistant Professor  
Project Guide



*Signature*  
Dr. V. Veeresh Dale, M.Tech., Ph.D.  
Professor  
Head of the Department

*Signature*  
Dr. V. M. DEEPA BANSI, M.Tech., Ph.D.  
Principal  
Dr. V. M. DEEPA BANSI, M.Tech., Ph.D.  
Principal

Approved and signed by the  
MIC College of Technology

*Signature*  
Principal

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KARNATAKA



**MONITORING OF A SUBSTATION USING ARDUINO WITH GSM**

A project report submitted to the  
Jawaharlal Nehru Technological University Karnataka

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
By

**K. LAKSHMI (08754024)**

**M. LAGANESH (08754025)**

**P. VINEETHA (08754026)**

Under the esteemed guidance of

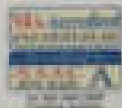
**Mr. S. SURENDA KUMAR, M.Tech**

Assistant Professor

Department of EEE



**MIC College of Technology**  
Approved by AICTE & Affiliated to JNTUA, Karnataka  
Kannur Road - 577102, Bangalore Dist. - 56° 34' 00"  
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www.miccollegeoftech.ac.in www.facebook.com



**CERTIFICATE**

This is to certify that the main project entitled "MONITORING OF A SUBSTATION USING ARDUINO WITH GSM" being submitted for the partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University Karnataka, is a finished work done by K. Lakshmi, M. Laganesh, P. Vineetha under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirements of the university. This work is not submitted to any other institution or university for the award of any degree.

**Dr. N. SURENDA KUMAR, M.Tech**

Assistant professor

Project Guide



**Dr. Y. SUDHEER KUMAR, M.E., Ph.D**

Professor

Head of the Department  
Department of Electrical and Electronics Engineering  
JNTUA, Bangalore

**Dr. Y. SUDHEER KUMAR, M.Tech, Ph.D**

Principal

**MIC College of Technology**  
KANNUR ROAD

Examiner

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



DESIGN & IMPLEMENTATION OF ANTI-THEFT ATM MACHINES

A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada

In partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

By

TIRI NAGA PRAVALLITA (1407140204)  
NANI KUMAR (1407140204)  
EVENKATA DURGA SAI PRANAV (1407140204)  
S.JAYARAM (1407140204)

Under the interested guidance of

Mr.F.Pradeep, M.Tech (Ph.D.)

Assistant Professor

Department of EEE



Dr.Viswanath Venkata Ramana & Dr. Chaitanya Sankar  
**MIC College of Technology**  
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Kakinada - 531 006, Andhra Pradesh, AP, India  
Phone: 08874-277221, Fax: 08874-277209  
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2018-19



Dr.Viswanath Venkata Ramana & Dr. Chaitanya Sankar  
**MIC College of Technology**  
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Phone: 08874-277221, Fax: 08874-277209  
www.miccollegedk.com, website: www.miccollegedk.in



CERTIFICATE

This is to certify that the project report entitled "DESIGN & IMPLEMENTATION OF ANTI-THEFT ATM MACHINE" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by **CAJ PRAVALLIRAMANI, KUMAR, V. S. PRANAV** and **S.JAYARAM** under my guidance during the academic year 2018-19 and is the best found suitable for awarding according to the requirements of the university. This work is not submitted to any other institution or university for the award of any degree.

  
F. PRADEEP, M.Tech (Ph.D.)  
Assistant Professor  
Project Guide



  
Dr. T. Venkatesh Murthy, M.Tech, Ph.D.  
Professor  
Head of the Department

  
Dr. F. ANITHA RANI, M.Tech, Ph.D.  
Dr. T. Anitha, Principal  
MIC College of Technology  
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



ARDUINO BASED INDUSTRIAL AUTOMATION USING WIFI MODULE

A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
in  
ELECTRICAL AND ELECTRONICS ENGINEERING

By  
T. KRISHNA CHAITANY KURUPARTHI  
S. VINAYKUNMAR(1407560241)  
K. CHIRANJEY/14077140240  
K. RAVI VARMA/1507140240

Under the guidance of  
Mr. P. VINOD  
Assistant Professor  
Department of EEE



Dr. Jagan Mohan Reddy & Dr. Hema Lakshmi  
MIC College of Technology

Approved by AICTE & Recognized by UGC, Government of India  
Kakinada-515002, State Road, A.P. India.  
Phone: 0884-235521, 235522, Fax: 0884-235523  
E-mail: [mic@miccollegetechnology.ac.in](mailto:mic@miccollegetechnology.ac.in)



2018-2019



Dr. Jagan Mohan Reddy & Dr. Hema Lakshmi  
MIC College of Technology

Approved by AICTE & Recognized by UGC, Government of India  
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2018-2019

**CERTIFICATE**

This is to certify that the project report entitled "ARDUINO BASED INDUSTRIAL AUTOMATION USING WIFI MODULE" being submitted for the partial fulfillment of the requirement for the award of the degree in Bachelor of Technology in Electrical and Electronic Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by MIC College of Technology, Kakinada, Andhra Pradesh by students being the students year 2017-18 and has been found suitable for acceptance according to the requirement of the University for the award of the degree in Bachelor of Technology in Electrical and Electronic Engineering.

Mr. P. VINOD  
Assistant Professor  
Department of EEE

Dr. T. V. SURESH KUMAR, Ph.D.  
Professor  
Head of the Department

Dr. S. SURESH KUMAR, Ph.D.  
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MIC College of Technology  
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E-mail: [mic@miccollegetechnology.ac.in](mailto:mic@miccollegetechnology.ac.in)

Examiner



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KARNATAKA



PROJECT TITLE

WIRELESS AUTO POWER TRIPPING GAS  
ALERT SYSTEM DURING LPG GAS LEAKAGE FOR SAFETY  
IMPROVEMENT

A project report submitted to the  
Jawaharlal Nehru Technological University Karnataka

In partial fulfillment for the award of the degree of  
BACHELOR OF TECHNOLOGY

By

1. SAITA KRISHNA (18PT140201)

2. HANVI KRISHNA (18PT140202)

3. A. PRASANTH KUMAR (18PT140203)

4. HIRONGA RAY (18PT140204)

Under the personal guidance of  
Dr. K. N. Srinivas, M. Tech, Ph.D.

Assistant Professor  
Department of EEE



Distance Education Research & De. Centre Institute  
MIC College of Technology

University: ANITA & Techno-World, Bidar Road, Karnataka  
Karnataka - 571001, Bidar Dist., AP, India  
Phone: 0874 211101, Fax: 0874 211102  
E-mail: Admissions@mic.ac.in, Website: www.mic.ac.in



2018-19



Distance Education Research & De. Centre Institute  
MIC College of Technology

University: ANITA & Techno-World, Bidar Road, Karnataka  
Karnataka - 571001, Bidar Dist., AP, India  
Phone: 0874 211101, Fax: 0874 211102  
E-mail: Admissions@mic.ac.in, Website: www.mic.ac.in



2018-19

CERTIFICATE

This is to certify that the project report entitled "Wireless Auto Power Tripping GSM Alert System during LPG Gas Leakage for Safety Improvement" being submitted for the award and fulfillment of the requirements for the award of the degree of Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Karnataka, is a genuine work done by S.Saitha Krishna, H.Hanvi Krishna, A.Prasanth Kumar and H.Hironga Ray under my guidance during the academic year 2018-19 and it has been found suitable for acceptance according to the requirements of the University. This work is not submitted to any other institution or university for the award of any degree.

Dr. K. N. Srinivas, M. Tech, Ph.D.  
Assistant Professor  
Project Guide



Dr. Y. Srinivas Kumar, Ph.D.  
Professor  
Head of the Department

Dr. Y. Srinivas Kumar, Ph.D.  
Principal

Dr. Y. Srinivas Kumar, Ph.D.  
Principal

Dr. Y. Srinivas Kumar, Ph.D.  
Principal

Dr. Y. Srinivas Kumar, Ph.D.  
Principal



**A CASCADED MODULAR MULTILEVEL INVERTER TOPOLOGY  
USING NOVEL SERIES BASIC UNITS WITH A REDUCED NUMBER OF  
SWITCHES**

A project report submitted to the  
Jawaharlal Nehru Technological University Karnataka  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

By  
**T BALAJI SAI (1801140201)**  
**B PAVAN KUMAR (1801140215)**  
**JARVIN KUMAR (1801140227)**

Under the esteemed guidance of  
**Dr. T. Varma Kumar, M.Tech.**  
Professor & Head  
Department of EEE



**CERTIFICATE**

This is to certify that the project report entitled "A CASCADED MODULAR  
MULTILEVEL INVERTER TOPOLOGY USING NOVEL SERIES BASIC UNITS  
WITH A REDUCED NUMBER OF SWITCHES" being submitted as the partial fulfillment  
of the requirements for the award of the degree in Bachelor of Technology in Electrical and  
Electronics Engineering from Jawaharlal Nehru Technological University, Karnataka, is a  
laudable work done by **T BALAJI SAI, B PAVAN KUMAR** and **JARVIN KUMAR** under  
the guidance of **Dr. T. Varma Kumar, M.Tech.** and it has been found suitable for acceptance  
according to the requirements of the university. This work has been submitted to any other institution  
or university for the award of any degree.

Dr. T. Varma Kumar, M.Tech.  
Professor  
Project Guide



Dr. T. Varma Kumar, M.Tech.  
Professor  
Head of Department  
Department of Electrical & Electronics Engineering  
JNTU & Dr. B.S. JNTU College of Technology  
Bidar Karnataka-571 329, India. E-mail: [mic@rediffmail.com](mailto:mic@rediffmail.com)

Dr. V. Srinivas Babu, M.Tech.  
Dr. J. Siva Prasad, M.Tech.  
Head of Department  
Department of Electrical & Electronics Engineering  
MIC College of Technology  
Bidar Karnataka-571 329, India



KARUNATA

**SPEED CONTROL OF DC MOTOR USING ARDUINO AND GSM MODEM**

A project report submitted to the  
Jawaharlal Nehru Technological University Karunata

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

By

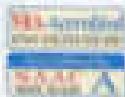
**SKAVYA SRI (180104021)**  
**K.NAGARAJA REDDY (180104026)**  
**M. MALLESWARA RAO (180104025)**

Under the esteemed guidance of  
Mr. A.V. Ravi Kumar, M.Tech.(Ph.D)

Assistant Professor  
Department of EEE

Deemed to be University Karunata & Dr. Y.S. Jagan Mohan Reddy  
**MIC College of Technology**

Approved by AICTE & Permitted Affiliation by JNTU, Karunata  
Karunata - 521 002, Srisaibabud, AP, India  
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e-mail: info@miccollegetechnology.ac.in website: www.miccollegetechnology.ac.in



2018-19



Deemed to be University Karunata & Dr. Y.S. Jagan Mohan Reddy  
**MIC College of Technology**

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e-mail: info@miccollegetechnology.ac.in website: www.miccollegetechnology.ac.in



**CERTIFICATE**

This is to certify that the above project entitled "SPEED CONTROL OF DC MOTOR USING ARDUINO AND GSM MODEM" being submitted for the partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Electrical and Electronic Engineering from Jawaharlal Nehru Technological University Karunata, is a finalised work done by S.Kavya Sri, K.Nagaraja Reddy, M.Malleswara Rao under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirements of the university. The work is not submitted to any other institution or university for the award of any degree.

  
Mr. A.V. Ravi Kumar, M.Tech.(Ph.D)  
Assistant professor  
Project Guide

  
Dr. T.V. Venkatesh Kiran, M.E., Ph.D  
Professor



Head of the Department  
Head of the Department  
Electrical & Electronic Engineering  
JNTU & Dr. Y.S. MIC College of Technology  
Karunata-521 002, Srisaibabud, AP, India

Dr. V. SUDHAKER BABU, M.Tech., Ph.D

Examiner

  
Principal  
Dr. V. Sudhaker Babu, M.Tech., Ph.D  
Principal  
JNTU & Dr. Y.S. MIC College of Technology  
Karunata-521 002, Srisaibabud, AP, India



**"DESIGN AND ANALYSIS OF 2.4GHz RECTENNA"**

Submitted by  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
ELECTRICAL & ELECTRONICS ENGINEERING**

Submitted by  
SNEHICA NAGA PRASANA (18071A0096)  
K. TIRUPATHI RAO (18071A0217)  
SEPAVANI (18071A0218)  
B.SANI CHANDRA SAIKUMAR (18071A0217)

Under the Esteemed Guidance of  
Dr. DEEPAK KUMAR, M.Tech., Ph.D.,  
Associate Professor

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



**CERTIFICATE**


This is to certify that the final project entitled "DESIGN AND ANALYSIS OF  
LEaky RECTENNA" is a feasible work carried out by SNEHICA NAGA PRASANA  
(18071A0096), K. TIRUPATHI RAO (18071A0217), SEPAVANI (18071A0218),  
B.SANI CHANDRA SAIKUMAR (18071A0217) in partial fulfillment for the award of  
the degree of Bachelor of Technology in Electrical Electronics Engineering of Jawaharlal  
Nehru Technological University Kakinada during the year 2016-17

  
Dr. DEEPAK KUMAR, M.Tech., Ph.D.  
Project Supervisor



  
Dr. YASHVIR KISHORE, Ph.D.  
Head of the Department

  
Dr. Y. SUBBIREDDI, M.Tech., Ph.D.  
Dr. Y. SUBBIREDDI, M.Tech., Ph.D.  
Associate Professor  
MIC College of Technology  
Kakinada-515116, Andhra Pradesh



Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



PROJECT TITLE

**AUTONOMOUS MILITARY SURVEILLANCE ROBOT**

A project report submitted to the

Jawaharlal Nehru Technological University Kakinada

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

By

**B. VIJJA HARSHITHA** (1607546221)

**G. BHASKR PRAKASH** (1607546294)

**P. KIRAN KUMAR** (1607546286)

**K. SARATHI KUMAR** (1607546275)

Under the esteemed guidance of

**Dr. T. Venkateswara Reddy**

Professor and Head  
Department of EEE



**MIC College of Technology**

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2018-19



**MIC College of Technology**

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E-mail: [miccollege@mic.ac.in](mailto:miccollege@mic.ac.in), website: [www.mic.ac.in](http://www.mic.ac.in)

2018-19



**CERTIFICATE**

This is to certify that the project report entitled "**AUTONOMOUS MILITARY SURVEILLANCE ROBOT**" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Kakinada, is a commendable work done by **B. Vijja Harshitha, G. BhaskrPrakash, P. Kiran Kumar** and **K. Sarathikumar** who are duly eligible during the examination period. It has been found suitable and compliance according to the requirements of the university. This work is not submitted in any other institution for the award of any degree.

*[Signature]*  
**Dr. T. Venkateswara Reddy**  
Project Guide

*[Signature]*  
**Dr. T. Venkateswara Reddy**  
Head of the Department

*[Signature]*  
**Dr. V. SURESH BABU** Secretary &  
**Dr. Y. S. SURESH** Principal

Deputy Director of Quality Assurance  
**MIC College of Technology**  
Kakinada - 521102, Krishna District, Andhra Pradesh

*[Signature]*  
**Dr. S. S. SURESH**

JAYABHARATI NERURU TECHNOLOGICAL UNIVERSITY KARNATAKA



A Project Report on

## CAN BASED PROTECTION SYSTEM IN INDUSTRIES

Submitted by

AMRITA S AVEENA HANMANGALA

in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

IN

**ELECTRICAL & ELECTRONICS ENGINEERING**

Submitted by

AMRITA S AVEENA HANMANGALA

REKHA ANIL 12007140206

GRAMYA 12007140206

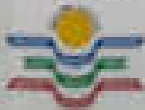
Under the Guidance of

**Mr. N. RAJESH BABU** M.Tech, Ph.D., IAS, IETE

Assistant Professor

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Jayabharati Neruru Technological University, Karnataka



**MIC College of Technology**

Approved by AICTE & Government of Karnataka  
Karnataka State Council of Technical Education  
K. S. Road, Mysore - 575 001, Karnataka, India  
Phone: 0824 2222001, 2222002, 2222003  
E-mail: jayabharatitnu@rediffmail.com, jayabharatitnu@rediffmail.com



2019-2020



Approved by AICTE & Government of Karnataka

**MIC College of Technology**

Approved by AICTE & Government of Karnataka  
Karnataka State Council of Technical Education  
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Phone: 0824 2222001, 2222002, 2222003  
E-mail: jayabharatitnu@rediffmail.com, jayabharatitnu@rediffmail.com



2019-2020

## CERTIFICATE

This is to certify that the candidate named "**CAN BASED PROTECTION SYSTEM IN INDUSTRIES**" being submitted for the partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Electrical and Electronics Engineering** from Jayabharati Neruru Technological University, Karnataka, is a bonafide work done by **A. Amrita S Aveena Hanmangala, B. Rekha Anil, C. Gramya** (MTC/2019-2020) under the guidance of **Mr. N. Rajesh Babu, M.Tech, Ph.D., IAS, IETE** and it has been found suitable for acceptance according to the requirements of the university. This work is not submitted in any other institution or university for the award of any degree.

**Mr. N. RAJESH BABU** M.Tech, Ph.D., IAS, IETE

Project Guide



**Dr. T. VAMSE KIRAN** Ph.D., IAS, IETE

Head of the Department

**Dr. T. VAMSE KIRAN** Ph.D., IAS, IETE

Principal

**Dr. T. SURESH BABU** Ph.D., IAS, IETE

External Examiner

External Examiner

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KARNATAKA



**ENERGY PRESERVING SYSTEM FOR SMART ROOMS (EPSSR)**

A project report submitted to the  
Jawaharlal Nehru Technological University, Karnataka  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

in

**ELECTRICAL AND ELECTRONICS ENGINEERING**

BY

PARINAYI (081754026)

SHARVITA (081754027)

GANVESH SAI (081754024)

SALEKHYS (081754025)

Under the esteemed guidance of

**MR. N. RAVI KANTHAM** IAS

Assistant Professor

Department of EEE



Devisetti Venkata Ramana & Dr. Hima Sekhara  
**MIC College of Technology**

Accredited by NBA, ECHEA, ISO 9001 & NAAC with 'A' Grade  
Karnataka - 571001, Andhra Pradesh - 520004



2018-2019



Devisetti Venkata Ramana & Dr. Hima Sekhara  
**MIC College of Technology**

Accredited by NBA, ECHEA, ISO 9001 & NAAC with 'A' Grade  
Karnataka - 571001, Andhra Pradesh - 520004



**CERTIFICATE**

This is to certify that the project report entitled "ENERGY PRESERVING SYSTEM FOR SMART ROOMS/EPSSR" being submitted by the joint fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronic Engineering from Jawaharlal Nehru Technological University, Karnataka, in Karnataka state only to PARINAYI, GANVESH, SHARVITA, SALEKHYS under supervision during the academic year 2018-19 and it has been found suitable for acceptance according to the requirements of the university. This work is not submitted to any other institution of education for the award of any degree.

  
Mr. N. Ravi Kantam  
Assistant Professor  
Project Guide



  
Dr. Venkatesh Kumar, IAS  
Professor  
Head of the Department



Dr. VENKATESH KUMAR, IAS, IAS  
Principal

  
Devisetti Venkata Ramana & Dr. Hima Sekhara  
MIC College of Technology  
Karnataka - 571001, A.P.

Examiner

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



AN IMPROVED DFIGC CONTROLLER TO PROVIDE ADDITIONAL GRID  
VOLTAGE REGULATION AS A STATCOM

A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada

In partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
ELECTRICAL AND ELECTRONICS ENGINEERING  
BY

JUNA BHARATHI (18BT12A04)

UNAGA PRASAD (18BT12A05)

AYU RABU (18BT12A06)

CHUCHITHA (18BT12A07)

Under the esteemed guidance of  
Mr. ASHUTOSH KUMAR SINGH, M.Tech  
Assistant Professor

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEER



Jawaharlal Nehru Technological University  
MIC College of Technology

Academics Wing, Jawaharlal Nehru Technological University, Kakinada  
Kakinada - 531030, Andhra Pradesh, India

2018-19



Jawaharlal Nehru Technological University  
MIC College of Technology

Academics Wing, Jawaharlal Nehru Technological University, Kakinada  
Kakinada - 531030, Andhra Pradesh, India



2018-19

CERTIFICATE

This is to certify that the work project entitled "AN IMPROVED DFIGC CONTROLLER TO PROVIDE ADDITIONAL GRID VOLTAGE REGULATION AS A STATCOM" being submitted for the partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University Kakinada is a bonafide work done by JUNA BHARATHI, AYU RABU, UNAGA PRASAD, CHUCHITHA under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirements of the university. This work is not submitted to any other institution or university for the award of any degree.

Mr. Ashutosh Kumar Singh, M.Tech

Assistant Professor  
Project Guide



Dr. T. Venkatesh Kumar, M.Tech, Ph.D.

Professor &

Head of the Department

Department of Electrical and Electronics Engineering  
MIC College of Technology  
Jawaharlal Nehru Technological University, Kakinada

Dr. Y. NAGESH KUMAR BABU, M.Tech, Ph.D.

Principal

MIC College of Technology  
Kakinada

Academics Wing, Jawaharlal Nehru Technological University, Kakinada  
Kakinada - 531030, Andhra Pradesh, India

Examiner





**\*JAVA ALGORITHM – AN EFFECTIVE TUNING TECHNIQUE FOR PID CONTROLLERS\***

Submitted to  
Jayashree Technological University, Karnataka  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

IN

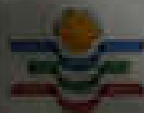
**ELECTRICAL & ELECTRONICS ENGINEERING**

By

K. JAGADEESH (1807142001)      P.V.M. ANURAG (1807142002)  
M.V. TEJA THIRUNAVI (1807142003)      S.G.M. ANURAGHESH (1807142004)

Under the Esteemed Guidance of  
**MR. P. SAGA GANGADHAR, M. Tech**  
Assistant Professor

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



Jayashree Technological University & Its Group of Institutions  
**MIC College of Technology**  
Established by J.T.U. & Group of Institutions, Jayashree Technological University, Karnataka  
Karnataka, 571002, Bangalore, K.P. India  
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2018-2019



Jayashree Technological University & Its Group of Institutions  
**MIC College of Technology**  
Established by J.T.U. & Group of Institutions, Jayashree Technological University, Karnataka  
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2018-2019



**CERTIFICATE**

This is to certify that the Main Project entitled **"JAVA ALGORITHM-AN EFFECTIVE TUNING TECHNIQUE FOR PID CONTROLLERS"** is a commendable work carried out by **K.JAGADEESH (1807142001), P.V.M. ANURAG (1807142002), M.V. TEJA THIRUNAVI (1807142003), S.G.M. ANURAGHESH (1807142004)**, in partial fulfillment for the award of degree of Bachelor of Technology in Electrical & Electronics Engineering of Jayashree Technological University Karnataka during the year 2018-19.

Mr. P. SAGA GANGADHAR  
Project Supervisor



Dr. T. V. SUDHEER BABU  
Head of the Department  
Head of the Department  
Electrical & Electronics Engineering  
2018 & 2019, MIC College of Technology  
Jayashree Technological University, Karnataka, K.P.

Dr. T. V. SUDHEER BABU

Dr. T. V. SUDHEER BABU  
Head of the Department  
Electrical & Electronics Engineering  
2018 & 2019, MIC College of Technology  
Jayashree Technological University, Karnataka, K.P.

THANKS

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KARNATAKA



GSM BASED SMART AGRICULTURE SYSTEM WITH AUTO SOLAR  
TRACKING

A project report submitted to the  
Jawaharlal Nehru Technological University, Karnataka  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
in  
ELECTRICAL AND ELECTRONICS ENGINEERING

BY  
KANANTELAYAM BHUVI (04P14010) & PROGRAM (04P14010101)

Under the general guidance of  
Dr. C. SHANMUKH, M.Tech.,  
Assistant Professor  
Department of EEE



Jawaharlal Nehru Technological University  
MJC College of Technology  
Karnataka  
Department of Electrical and Electronics Engineering  
Karnataka  
Karnataka  
Karnataka



2017-2018



Jawaharlal Nehru Technological University  
MJC College of Technology

Department of Electrical and Electronics Engineering

Department of Electrical and Electronics Engineering

Department of Electrical and Electronics Engineering

Department of Electrical and Electronics Engineering



CERTIFICATE

This is to certify that the project report entitled "GSM Based Smart Agriculture System with Auto Solar Tracking" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Karnataka, is a healthy work done by Mr. Kananelayam Bhuvi (04P14010) & Program (04P14010101) under my guidance during the academic year 2017-18 and it has been found worthy for acceptance according to the requirements of the university. This work is not referred to any other documents or sources for the award of this degree.

Dr. C. Shanmukh  
Mr. C. SHANMUKH, M.Tech.,  
Assistant Professor  
Project Guide



Dr. T. Srinivas Kumar, M.Tech.,  
Professor  
Head of the Department

Dr. V. Srinivas Kumar, M.Tech.,  
Principal

Dr. V. Srinivas Kumar, M.Tech.,  
Principal  
MJC College of Technology  
Karnataka

Signature of Dr. V. Srinivas Kumar

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KARNATAKA



# Performance of Virtual Synchronous Machine in Autonomous Mode of Operation

A project report submitted to the  
Jawaharlal Nehru Technological University, Karnataka  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRICAL AND ELECTRONICS ENGINEERING**  
By

- |                   |            |
|-------------------|------------|
| 1. JAGADISHAM     | (08P14812) |
| 2. NAVYENA BANSHI | (08P14813) |
| 3. MULLIGAN       | (08P14814) |
| 4. CHIRANJEEV     | (08P14815) |

Under the concerned guidance of  
**MR. M. TRIVARAN, M.Tech.**  
Assistant Professor  
Department of EEE.



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2018-19



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E-mail: [mic@miccollegetechnology.edu.in](mailto:mic@miccollegetechnology.edu.in)  
2018-19




## CERTIFICATE

This is to certify that the project report entitled "Performance of Virtual Synchronous Machine in Autonomous Mode of Operation" being submitted for the partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Karnataka, is a genuine work done by **JAGADISHAM, NAVYENA BANSHI, MULLIGAN, CHIRANJEEV** under the guidance of **MR. M. TRIVARAN, M.Tech.** during the academic year 2018-19 and is his/her/their original work according to the requirements of the university. This work is not submitted in any other institution or university for the award of any degree.

  
Mr. M. Trivaran, M.Tech.  
Assistant Professor  
Project Guide



  
Dr. V. Lakshmi Narayana, Ph.D.  
Professor &  
Head of the Department

  
Dr. V. LAKSHMI NARAYANA  
Principal  
Dr. V. SURESH KANTH, Ph.D.  
Professor  
Deemed to be University  
**MIC College of Technology**  
KARNATAKA, KARNATAKA, INDIA

  
Dr. V. Suresh Kant  
Teacher

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



DEVELOPMENT OF ANTI-RIGGING VOTING SYSTEM USING  
FINGER PRINTS BASED ON ARDUINO

A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
in  
ELECTRICAL AND ELECTRONICS ENGINEERING

By

K. KIRITHI SAIHYA (198716020)  
N. DEEPA LAKSHMI (198716080)  
D. MANJUNATH (198716029)  
K. SRUJAN SUDHARADHA CHARI (198716028)

Under the esteemed guidance of  
Mr. T. JAYA RAJ, M.Tech.,  
Assistant Professor  
Department of E.E.E.



Chennai, Tamil Nadu, India. 600 088  
**MIC College of Technology**  
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2018-2019




Chennai, Tamil Nadu, India. 600 088  
**MIC College of Technology**  
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Email: [admission@miccol.ac.in](mailto:admission@miccol.ac.in), website: [www.miccol.ac.in](http://www.miccol.ac.in)



CERTIFICATE

This is to certify that the main project entitled "DEVELOPMENT OF ANTI-RIGGING VOTING SYSTEM USING FINGER PRINTS BASED ON ARDUINO" being submitted for the partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University Kakinada, is a bonafide work done by K. Kirithi Saihya, N. Deepa Lakshmi, D. Manjunath and K. Sri Jagan Sudharadha Chari under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted in any other institution of university for the award of any degree.

  
Mr. T. JAYA RAJ, M.Tech.  
Assistant Professor  
Project Guide

  
Dr. T. VASUDEVAN, M.E., Ph.D.  
Professor  
Head of the Department  
Head of the Department  
Electrical & Electronics Engineering  
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KanchiRaharajpet 121 108, Kakinada, A.P.

  
Dr. V. SUDHEER BABU, M.Tech., Ph.D.  
Principal  
Principal  
SVS & Co. PS MIC College of Technology  
KanchiRaharajpet 121 108, Kakinada, A.P.

Examiner





**"Solar Based Pesticide Sprayer"**  
Submitted to  
Jayawardana Nether Technological University, Sarajithi  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRICAL & ELECTRONICS ENGINEERING**

Submitted by:

- S. Sridha (1507140206)
- S. Niva Gopal Sridhar (1507140211)
- P. V. S. N. Varun Sridhar (1507140205)

Under the Esteemed Guidance of  
**Dr. Suresh. S. M.A.M.A**  
Professor

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



**MIC College of Technology**

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Jayawardana Nether Technological University, Sarajithi  
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Approved by AICTE & Provisionally Affiliated to JNTUA, Sarajithi  
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2018-2019



**CERTIFICATE**

This is to certify that the above mentioned "Solar Based Pesticide Sprayer" is a quality work carried out by S. Sridha (1507140206), S. Niva Gopal (1507140211), P. V. S. N. Varun Sridhar (1507140205) in partial fulfillment for the award of degree of Bachelor of Technology in Electrical and Electronics Engineering of Jayawardana Nether Technological University, Sarajithi during the year 2018-19.

Dr. S. Suresh, M.A.M.A  
Project Supervisor



Dr. T. Venkatesh Kumar, M.A.M.A  
Head of the Department

Dr. T. Venkatesh Kumar, M.A.M.A  
Dr. S. Suresh, M.A.M.A  
MIC College of Technology  
Jayawardana Nether Technological University



A Project Report on  
**GSM BASED CIRCUIT BREAKER**

Submitted to  
Jawahar Nerus Technological University, Bangalore  
in partial fulfillment for the award of the degree of  
**BACHELOR OF TECHNOLOGY**



**ELECTRICAL & ELECTRONICS ENGINEERING**

Submitted by

- HELAGEMSI PREETHIKA (08PT04010)
- REKSHA SURESH PAVAN KUMAR (08PT04020)
- GANESHAN (08PT04030)
- S.VINAY (08PT04040)

Under the Guidance of  
**MR.N.RAGHVI BABU** (07EE 000100)  
Assistant Professor

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



**MIC College of Technology**

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**CERTIFICATE**

This is to certify that the Project Report entitled "**GSM BASED CIRCUIT BREAKER**" is a valuable work done and by **HELAGEMSI PREETHIKA (08PT04010), REKSHA SURESH PAVAN KUMAR (08PT04020), GANESHAN (08PT04030), S.VINAY (08PT04040)**, submitted in partial fulfillment of the requirement for the award of **BACHELOR OF TECHNOLOGY** in **Electrical & Electronics Engineering** - **1st Semester** Jawahar Nerus Technological University Karnataka during the year 2018-19. The results of investigation contained in this report have been verified and found satisfactory. The results mentioned in this project report have not been submitted to any other University or Institute for the award of any other degree.

**MR.N.RAGHVI BABU**  
Project Guide



**DR. S.VINAY KIRAN**  
Head of the Department

**DR. J. SURESH KUMAR**  
Head of Institution

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**TWINNING OF SOLAR AND VERTICAL AXIS WIND SYSTEMS**

A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

in

**ELECTRICAL AND ELECTRONICS ENGINEERING**

by

**E.SAIKUMAR (10075A020)**

**SRIYANI SUNDAR (10075A027)**

**T KRISHNA CHAITANYA (10075A028)**

Under the supervision of

**Dr. T.Vaishu Kiran**

Professor & Head

Department of



Devi Prasad Venkata Ratnam & Dr. Himu Sekhar  
**MIC College of Technology**

Approved by NBA, EFMD EQUIS & AACSB with 'A' Grade  
Kakinada - 531 001, Andhra Pradesh, A.P.

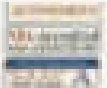
2018-19



Devi Prasad Venkata Ratnam & Dr. Himu Sekhar  
**MIC College of Technology**

Approved by NBA, EFMD EQUIS & AACSB with 'A' Grade  
Kakinada - 531 001, Andhra Pradesh, A.P.

2018-2019



**CERTIFICATE**

This is to certify that the project report entitled "TWINNING OF SOLAR AND VERTICAL AXIS WIND SYSTEMS" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronic Engineering from Jawaharlal Nehru Technological University, Kakinada, to a candidate(s) **E.SAIKUMAR (10075A020), SRIYANI SUNDAR (10075A027), T KRISHNA CHAITANYA (10075A028)** under my guidance during the academic year 2018/19 and it has been found suitable for acceptance according to the requirements of the university. This work is not submitted to any other institution or university for the award of any degree.

*T. Vaishu Kiran*  
**Dr. T.Vaishu Kiran**

Project guide



*T. Vaishu Kiran*  
**Dr. T.Vaishu Kiran**

Head of the Department

Head of the Department  
Electrical & Electronic Engineering  
JNB & Dr. MIC College of Technology  
Kakinada-531 001, Andhra Pradesh, A.P.

**Dr. V. SUNEER BABA**

Dr. V. SUNEER BABA

Head of the Department  
MIC College of Technology  
Kakinada-531 001, Andhra Pradesh, A.P.

EXAMINER

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**IoT BASED AIR POLLUTION MONITORING SYSTEM USING ARDUINO**

A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

By

T. SRAVANI (18BT14027)

SRIRAJ KUMAR (18BT14028)

FRANZ BERRY (18BT14024)

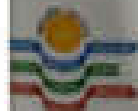
ESAI GURU DEV (18BT14025)

Under the esteemed guidance of

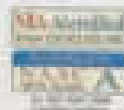
**Dr. S. SATEESH, M.E., Ph.D.**

Professor

Department of EEE



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**CERTIFICATE**

This is to certify that the above project report entitled "IoT BASED AIR POLLUTION MONITORING SYSTEM USING ARDUINO" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Kakinada, is a beneficial work done by T. Sravani, M. Raj Kumar, F. Franz Berry, & Sai Guru Dev under my guidance during the academic year 2018-19 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
Dr. S. Sateesh, M.E., Ph.D.

Professor

Project Guide



  
Dr. T. Venkatesh Kumar, M.E., Ph.D.

Professor

Head of the Department  
Department of EEE  
Electrical & Electronics Engineering  
DDE & DEEE MIC College of Technology  
Kakinada-531001, Andhra Pradesh, INDIA

  
Dr. V. Sudheer Babu, M.A., Ph.D.

Principal

Principal  
MIC College of Technology  
KAKINADA-531001

EXAMINER





**IDT BASED SMART ENERGY MANAGEMENT SYSTEM USING  
ARDUINO**

A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of  
**BACHELOR OF TECHNOLOGY**

in  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

By

**P NAGARJUNA** (1407560100)  
**K SRI KRISHNA** (1107140201)  
**B GOPI KRISHNA** (1507140100)  
**B SATYAJAY KARI** (1407560101)

Under the Guidance of  
**Dr. M NAGESHWARA RAO M.Tech (Ph.D)**  
Assistant Professor  
Department of EEE



**CERTIFICATE**

This is to certify that the project report entitled "**IDT BASED SMART ENERGY MANAGEMENT SYSTEM USING ARDUINO**" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by **NAGARJUNA P, SRI KRISHNA K, GOPI KRISHNA B and SATYAJAY KARI** during the semester year 2018-19 and it has been found suitable for acceptance according to the requirements of the university. This work is now referred to the main examination of university for the award of any degree.

*[Signature]*  
**Dr. M NAGESHWARA RAO M.Tech (Ph.D)**  
Assistant Professor  
Project Guide



*[Signature]*  
**Dr. T. VAMSI KRISHNA Ph.D**  
Professor  
Head of the Department

*[Signature]*  
**Dr. T. VAMSI KRISHNA Ph.D**  
Professor  
Head of the Department

*[Signature]*

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KARNATAKA



## IOT BASED ACCIDENT PREVENTION USING EYE BLINKING AND ALCOHOLIC SENSOR

A project report submitted to the  
Jawaharlal Nehru Technological University Karnataka  
in partial fulfillment for the award of the degree of  
**BACHELOR OF TECHNOLOGY**

By

ARAVAN KUMAR	(18BT14A001)
CHANDAN	(18BT14A001)
CHAYAN	(18BT14A001)
ANVITHA KUMAR	(18BT14A001)

Under the constant guidance of  
Mr. MANISH KUMAR, M.Tech, (Ph.D)

Assistant Professor  
Department of EEE



Approved by Council of Higher Education  
**MIC College of Technology**  
Approved by AICTE & Karnataka Government, Government of Karnataka  
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2018-19



Approved by Council of Higher Education  
**MIC College of Technology**

Approved by AICTE & Karnataka Government, Government of Karnataka  
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2018-19



### CERTIFICATE

This is to certify that the project report entitled "IOT BASED ACCIDENT PREVENTION BY USING EYE BLINKING AND ALCOHOLIC SENSOR" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Karnataka, is herewith acknowledged by I Prasad Kumar, G. Harish, P. Naveen and N. Vinod Kumar under my guidance during the academic year 2018-19 and it has been found suitable for acceptance in partial fulfillment of the requirements. This work is not submitted for any other examination or assessment for the award of any other degree or diploma.

Mr. MANISH KUMAR, M.Tech, (Ph.D)  
Assistant Professor  
Project Guide

Mr. T. SURESH KUMAR, Ph.D  
Professor  
Head of the Department

Mr. T. SURESH KUMAR, Ph.D  
Dr. T. SURESH KUMAR  
Principal

Approved by Council of Higher Education  
Approved by AICTE & Karnataka Government  
MIC College of Technology  
Karnataka - 577009, Mysore City, AP, India

Dr. T. Suresh Kumar  
Principal

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KARNATAKA



PROJECT TITLE

**SPEED CONTROL OF VEHICLE AT SENSITIVE ZONES  
BY USING RF CONTROL.**

A project report submitted to the  
Jawaharlal Nehru Technological University Karnataka

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

By

A VINOD KUMAR (100124209)  
RASHMI (100124210)  
SH. MEDHAJANBI (100124211)  
RAMELLESHWARUNA REDDY (100124212)

Under the esteemed guidance of

**MR. MANISH KUMAR, M.Tech**

Assistant Professor  
Department of EEE



Deviyani Venkata Ramesh & Dr. Hirna Sekhar

**MIC College of Technology**

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2018-19



Deviyani Venkata Ramesh & Dr. Hirna Sekhar

**MIC College of Technology**

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E-mail: admin@miccoltech.ac.in, website: www.miccoltech.ac.in



2018-19

**CERTIFICATE**

This is to certify that the project report entitled "SPEED CONTROL OF VEHICLE AT SENSITIVE ZONES BY USING RF CONTROL," being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Karnataka, is a bonafide work done by A Vinod Kumar, Rashmi, Sh. MedhaJanbi and Rameleshwaruna Reddy under my guidance during the academic year 2018-19 and that I have found it worthy of acceptance according to the requirements of the university. This work is not submitted to any other institution or university for the award of any degree.

*H. Dhanu Kumar*  
Mr. H. Dhanu Kumar, M.Tech  
Assistant Professor  
Project Guide



*Dr. L. Vasanth Kumar*  
Dr. L. Vasanth Kumar, M.Tech  
Professor  
Head of the Department

*Dr. C. L. Prasad*  
Dr. C. L. Prasad, M.Tech

Dr. C. L. Prasad, M.Tech  
Assistant Professor  
Head of the Department

*Dr. C. L. Prasad*

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**UNMANNED LEVEL CROSSING CONTROLLER AND RAIL TRACK BROKEN DETECTION SYSTEM USING IR SENSORS AND INTERNET OF THINGS TECHNOLOGY**

A project report submitted to the  
Jawaharlal Nehru Technological University, Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

IN

ANAGA LAKSHMI (190714021)  
GLAYA KRISHNA REDDY (190714022)  
KARANATH MANI (190714023)  
KARUNA RANI (190714024)

Under the concerned guidance of  
Mr. P. Pradyip, M.Tech/Ph.D.,  
Associate Professor  
Department of EEE.

Dr. Y. Venkateswaraiah, D. Sc./Dr. J. H. Reddy  
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2018-19



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**CERTIFICATE**

This is to certify that the project report entitled "UNMANNED LEVEL CROSSING CONTROLLER AND RAIL TRACK BROKEN DETECTION SYSTEM USING IR SENSORS AND INTERNET OF THINGS TECHNOLOGY" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronic Engineering from Jawaharlal Nehru Technological University, Kakinada, is a genuine work done by ANAGA LAKSHMI, GLAYA KRISHNA REDDY, KARANATH MANI and KARUNA RANI during the academic year 2018-19 and is not being found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of a degree.

  
Associate Professor  
Project Guide



  
By A. Venkateswaraiah, M.Tech/Ph.D.  
Professor  
Head of the Department

  
By Y. SUDHEER RAO, Ph.D., P.D.  
Dr. Y. S. Prasad, D. Sc./Dr. J. H. Reddy

Principal  
MIC College of Technology  
Kakinada, Andhra Pradesh

  
Head of the Department

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



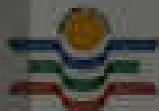
**OPTIMAL REACTIVE POWER DISPATCH USING FARMLAND FERTILITY ALGORITHM**

A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRICAL AND ELECTRONICS ENGINEERING**  
by

**T. BANIYA SRI (0817140218)**  
**R. SRITHARANVI (0817140218)**  
**P. DEENA SUNDAR RAO (0817140218)**

Under the esteemed guidance of  
**Mr. MURAMA SRIKANTA RAO, M.Tech.**  
Assistant Professor  
Department of EEE.



Technical, Training, Research & Quality Services  
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**CERTIFICATE**

This is to certify that the project report entitled "Optimal Reactive Power Dispatch using Farmland Fertility Algorithm" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by T. BANIYA SRI, R. SRITHARANVI and P. DEENA SUNDAR RAO under my guidance during the period from 2018-19 and it has been found suitable for submission according to the requirements of the university. This work is not submitted to any other institution for award of the degree of any degree.

  
**Mr. M. Rama Srikanta Rao, M.Tech.**  
Assistant Professor  
Project Guide

  
**Dr. T. N. Lakshmi Narayana, M.Tech., Ph.D.**  
Professor  
Head of the Department

  
**Dr. T. N. Lakshmi Narayana, M.Tech., Ph.D.**  
Professor  
MIC College of Technology  
Bachchanallu, Kakinada-531001

  
T. Baniya Sri



## Department of Mechanical Engineering

**A.Y:2018-19**

### List of Major Projects

Batch No	Reg. No	Name of the Student	Project Supervisor	Project Title
A1	14H71A0322	VENKATA BHANU PRASAD U	R. Ranjith Kumar	Investigation of mechanical properties of animal teeth powder reinforced AL matrix composite prepared by stir casting
	14H71A0315	NARENDRA G		
	14H71A0306	SANDEEP M		
	14H71A0321	SARATHCHAND D		
	14H71A0334	ANIL R		
A2	14H71A0357	PARDHA SARADHI J	K.Srinivas	Optimize nozzle angle for nozzle minimization of stress in pressure vessel made of alloy A-Z 86
	14H71A0354	SAI SRINIVAS CHOWDARY S		
	15H75A0306	GOPI SAI TEJA B		
	14H71A0343	CHARAN SAI DURGA CHAND M		
	14H71A0348	NAVEEN A		
A3	15H75A0305	SAI A	Y.Naga prasad	Effect of sea shell particulate addition on the mechanical properties of aluminium metal matrix composite
	14H71A0309	SAI SRINIVAS CHOWDARY S		
	14H71A0301	GOPI SAI TEJA B		
	14H71A0335	CHARAN SAI DURGA CHAND M		
	14H71A0330	NAVEEN A		
A4	14H71A0359	MANI KUMAR K	Dr.G.Rajesh	Evaluation of Testing properties & Thermal conductivity of phrag
	14H71A0353	SAI KRISHNA P		
	14H71A0355	SAI KUMAR K		
	14H71A0318	SUBHASH S		
	14H71A0324	VIJAY SRAVAN P		
A5	15H75A0308	IMRAN MD	K.Ramesh	Design & Analysis of simple low frequency vibration Isolation system using Negative stiffness
	14H71A0344	VENKATESH K		
	14H71A0319	VAMSI KRISHNA N		
	14H71A0305	ANIL KUMAR CH		
	15H75A0302	SURYA NAIK R		
A6	14H71A0346	VENKATA TEJA CH	M.V.Ramana	Error idetification in finite element practice of a missile component
	14H71A0310	UDAY KUMAR K		
	14H71A0342	SAI A		
	14H71A0317	SAI SRINIVAS CHOWDARY S		
	14H71A0350	GOPI SAI TEJA B		
A7	14H71A0346	CHARAN SAI DURGA CHAND M	K.Sai chand	



	14H71A0310	NAVEEN A		Optimization of Green sand mould properties by using Taguchi based principal concept analysis (PCA)
	14H71A0342	MANI KUMAR K		
	14H71A0317	SAI KRISHNA P		
	14H71A0350	PUNNA REDDY CH		
A8	14H71A0308	ARAVINDA SWAMY Y	Ch.Sowjanya	Design & Analysis of Sand Bucket Excavator
	14H71A0332	DURGA RAO		
	14H71A0312	KRANTHI RANA DEV K		
	14H71A0358	LAKSHMI NARAYANA M		
	13H71A0331	SUNI SUMANTH CH		
A9	15H75A0301	MOULANA ABDULKALAM AZAD SK	M.Venkatesh	Design and analysis of aerodynamic drag reduction for SU vehicle Mahindra TUV 300
	14H71A0326	RAJA SURENDRA V		
	14H71A0339	PRASANNAKUMAR S		
	14H71A0341	SRI NAGA V D SAI KUMAR		
	14H71A0311	NARENDRA GOPI K		
A10	14H71A0325	PRAVEEN B	M.V.Ragavendra	Evaluation of tensile properties of agave americana reinforced polyester composites
	14H71A0356	GURU PRASAD M		
	14H71A0302	IBRAHIM MD		
	14H71A0338	NADEEM SK		
	14H71A0347	GNANA DILEEP B		
A11	15H75A0307	GOPINATH REDDY M	B.Srinivasa rao	Design and Analysis of solar Refrigeration & air conditioning system
	14H71A0352	ENOSH KUMAR V		
	14H71A0329	KOWSHAL K		
	14H71A0337	PUNNA REDDY CH		
	13H71A0305	ARAVINDA SWAMY Y		
A12	14H71A0349	DURGA RAO	G.V.V.N.G.Vital	Evaluation of mechanical properties of Basalt powder banana fiber reinforced polyester hybrid composite
	14H71A0345	KRANTHI RANA DEV K		
	14H71A0316	LAKSHMI NARAYANA M		
	14H71A0340	SUNI SUMANTH CH		
	14H71A0349	VENKATA BHANU PRASAD U		
A13	15H75A0304	NARENDRA G	K.Appalaraju	Influence of fiber orientation on mechanical properties of sisal,jute,flax and reinforced epoxy composites
	14H71A0303	SANDEEP M		
	14H71A0314	SARATHCHAND D		
	14H71A0304	ANIL R		
	14H71A0351	PARDHA SARADHI J		



B1	16H71A0320	RAVI CHANDRA Y	Ch S R T P Sai	design&fabrication of coconut dehusking machine
	15H71A0358	MAHE MUNEEER SK		
	16H75A0316	ASHOK P		
	16H75A0321	SAI ANIL KUMAR P		
	15H71A0380	SUJITH KUMAR CH		
B2	15H71A0377	SRIKANTH B	M. Prasanth	design and fabrication of free energy air pump
	15H71A0349	BALANJI REDDY K		
	15H71A0356	JAGADESH KUMAR G		
	15H71A0378	SRINIVASU A		
	15H71A0347	ARAVIND BABU A		
B3	15H71A0360	MOHAN SAI V	Dr. V. Srinivasa Sai	design and fabrication of nut removal and tightening by geneva mechanism
	15H71A0368	RAM SAI P		
	15H71A0375	SANNI BABU M		
	15H71A0381	SUMANTH M		
	15H71A0367	RAM MOHAN P		
B4	15H71A0364	NAVEEN P	Md. Ashhar Tufail	design and fabrication of multipurpose farm machine
	15H71A0348	B MANIKANTA SAI A		
	15H71A0350	BHARATH CHANDRA K		
	15H71A0388	MAHE MUNEEER SK		
	16H75A0324	SURESH G		

B5	15H71A0369	SAI A	M. Venkatesh	design and fabrication of multipurpose machine tool based on withworth quick return mechanism
	15H71A0371	SAI SRINIVAS CHOWDARY S		
	15H71A0354	GOPI SAI TEJA B		
	15H71A0353	CHARAN SAI DURGA CHAND M		
	15H71A0363	NAVEEN A		
B6	16H75A0319	MANI KUMAR K	B. Srinivasa Rao	design and fabrication of trolley by four bar chain mechanism
	15H71A0370	SAI KRISHNA P		
	16H75A0323	SAI KUMAR K		
	15H71A0379	SUBHASH S		
	15H71A0389	VIJAY SRAVAN P		
B7	16H75A0317	IMRAN MD	K. Srinivas	design and fabrication of school bag trolley
	15H71A0387	VENKATESH K		
	15H71A0383	VAMSI KRISHNA N		
	15H71A0346	ANIL KUMAR CH		
	15H71A0382	SURYA NAIK R		
B8	16H75A0327	VENKATA TEJA CH	Dr. M Kaladhar	





	16H75A0326	UDAY KUMAR K		
	15H71A0355	HARSHAD SK		
	15H71A0372	SANDEEP A		
	15H71A0359	MANIKANTA SURYA V		double box shifting system
B9	16H75A0318	LOKESH K	Sk. Mahaboob Basha	investigation of hand operated shaping and slotting mechanism
	15H71A0385	VENKATA BHANU PRASAD U		
	15H71A0361	NARENDRA G		
	15H71A0374	SANDEEP M		
	15H71A0376	SARATHCHAND D		
B10	16H75A0315	ANIL R	A. Naga Pavan Kumar	design and fabrication of thermo electric refrigeration system
	15H71A0365	PARDHA SARADHI J		
	15H71A0384	VENKATA AKHIL D		
	15H71A0386	VENKATA PAVAN KALYAN N		
	15H71A0390	VINAY KUMAR P		
B11	16H75A0322	SAI KRISHNA K	Pintu Kumar	design and fabrication of hydraulic scissor lift
	16H75A0325	SWAMY A		
	15H71A0373	SANDEEP G		
	15H71A0357	LEELA SAI KRISHNA RAO J		
C1	15H71A03C4	SRIMAHESH P	Narendra Khatre	design & fabrication of pedal operated hacksaw
	16H75A0332	K PAVAN KUMAR K		
	16H75A0329	BALAJI NAYAK B		
	15H71A0394	CHAITANYA M		
C2	15H71A03B8	SAI DATTA P	M.Pradeep	design & fabrication of sand refinement by rotary mechanism
	16H75A0339	SRI SAI CHARAN B		
	14H71A0307	Athallah Sk		
	15H71A03B5	RAFI MD		
	14H71A0382	Kalyan D		
C3	15H71A03C7	VENKATA NAGA GOPI P	K. Supriya	design & fabrication of mini solar refrigeratio
	16H75A0335	NAVEEN N		
	16H75A0342	VENKATA SAI KUMAR P		
	14H71A0336	Sai Kumar P		
	15H71A03B9	SAI JAGADEESH V		
C4	15H71A03A9	NARESH KUMAR R	B. Ashwini Kumar	design & fabrication of go-cart with special attachments
	15H71A0393	AVINASH G		
	16H75A0340	SUMAN RAJU B		
	15H71A03A4	MAHESH T		
	15H71A03B7	RAMESH P		



C5	15H71A03B0	NAVEEN N	S. Sarath Chandra	design & fabrication of hands free welding
	15H71A03C7	VENKATA NAGA GOPI P		
	16H75A0341	TEJA P		
	15H71A0339	SURESH BABU V		
	15H71A03C6	SURYA PRAKASH CHOWDARY J		
C6	16H75A0336	RADHAKRISHNA D	Upendra Yadav	design & fabrication of mini solar refrigeration
	15H71A03C1	SAI SRINIVASA RAO V		
	16H75A0337	SAI TEJA B		
	15H71A0396	GOPI I		
	15H71A03C3	SRI KRISHNA G		
C7	15H71A03A7	N ARUN KUMAR M	Dr. Y Naresh	design & fabrication of pyramid type solar still
	15H71A03B4	PUNNA REDDY CH		
	15H71A0392	ARAVINDA SWAMY Y		
	15H71A03D0	DURGA RAO		
	15H71A03A2	KRANTHI RANA DEV K		
C8	16H75A0333	LAKSHMI NARAYANA M	Dr. Naveen Sharma	design & fabrication of pyramid type solar stil
	15H71A03C5	SUNI SUMANTH CH		
	15H71A03A6	MOULANA ABDULKALAM AZAD SK		
	15H71A03B6	RAJA SURENDRA V		
	15H71A03B2	PRASANNAKUMAR S		
C9	16H75A0338	SRI NAGA V D SAI KUMAR	D. Divya	design & fabrication of rocker bogie mechanism
	15H71A03A8	NARENDRA GOPI K		
	15H71A03B3	PRAVEEN B		
	15H71A0397	GURU PRASAD M		
	15H71A0398	IBRAHIM MD		
C10	16H75A0334	NADEEM SK	P Bhagat Singh	design & fabrication of non metallic slab coupled with peijo electric material of power generation
	16H75A0330	GNANA DILEEP B		
	16H75A0331	GOPINATH REDDY M		
	15H71A0395	ENOSH KUMAR V		
	15H71A03A1	KOWSHAL K		

Signature of Coordinator

Signature of HoD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**PERFORMANCE ANALYSIS OF SUNFLOWER  
BIO-DIESEL ON CI ENGINE**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

**R. SIVA KRISHNA (16H75A0311)**

**P. PRASAD (16H75A0307)**

**T. GOPI (15H71A0310)**

**P. AJAY VARMA (15H71A0302)**

**MD. RAFI VULLAH (15H71A0328)**

Under the Esteemed Guidance of  
**Mr. A. NAGA PAVAN KUMAR**  
Assistant Professor

Department of Mechanical Engineering

Devineni Veekata Ramana & Dr.Hima Sekhar

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2018-2019

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Devineni Venkata Ramana & Dr. Hima Sekhar  
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14-09-2015-2020  
Certificate Number

**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

Certified that the project entitled "PERFORMANCE ANALYSIS OF SUNFLOWER BIO-DIESEL ON CI ENGINE" which is a bonafide work carried out by R. SIVA KRISHNA, P. PRASAD, T. GOPI, P. AJAY VARMA and MD. RAFI VULLAH bearing register numbers 16H75A0311, 16H75A0307, 15H71A0310, 15H71A0302, and 15H71A0328 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

Mr. A. Naga Pavan Kumar

Asst. Professor



Principal

Head of the Department

Dr. M. Sreenivasa Rao

Professor

Dr. Y. Sudheer Babu

Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



THE BRIEF STUDY OF OPERATIONS TO REDUCE THE BREAK  
DOWN TIME OF MACHINES IN MAINTENANCE DEPARTMENT IN  
AMARA RAJA MANGAL INDUSTRIES

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

NADEEM SHAIK (16H75A0334)

Internal

Mr. P. BHAGAT SINGH  
Associate Professor

External

Mr. ESWARA PRADEEP (HOD of Maintenance)  
Mr. LOK PAVAN (In charge of Maintenance)

DEPARTMENT OF MECHANICAL ENGINEERING

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AN ISO 9001:2015  
CERTIFIED ENTITY

2016/19/19



Devireni Venkata Ramana & Dr.Hima Sekhar  
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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE**

Certified that the project entitled "**THE BRIEF STUDY OF OPERATIONS TO REDUCE THE BREAK DOWN TIME OF MACHINES IN MAINTENANCE DEPARTMENT IN AMARA RAJA MANGAL INDUSTRIES**" which is a bonafied work carried out by **SK.NADEEM**, bearing register number **16H75A0334**, in partial fulfilment for the award of degree of bachelor technology in **MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year **2018-19**. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

*[Signature]*  
02/09/19

**Internal Guide**

**Mr.P.Bhagat Singh**

Associate Prof,

*[Signature]*

**Head of the Department**

**Dr.M.Sreenivasa Rao**

Professor



*[Signature]*  
02/09/19

**External guidance**

**P. Eswara Pradeep (HOD of maintenance)**

**Y. Lok Pavan (In charge of maintenance)**

*[Signature]*

**Principal**

**Dr. Y. SUDHEER BABU**  
**Dr.Y. SUDHEER BABU, Ph.D, JTM**

**PRINCIPAL**

Devireni Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**  
**KANCHIKACHERLA, Krishna District**

*[Signature]*

**Examiner-1**

*[Signature]*

**Examiner-2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



# THERMOGRAVIMETRIC ANALYSIS OF CARBON FIBER REINFORCED POLYMER COMPOSITE WITH BASALT POWDER AS FILLER MATERIAL

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfilment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

A. SAI-15H71A0369

S. SAI SRINIVAS CHOWDARY

15H71A0371

B. GOPI SAI TEJA

15H71A0354

M. CHARAN SAI DURGA CHAND

15H71A0353

A. NAVEEN

15H71A0363

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MIC College of Technology



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Under the Esteemed Guidance of  
**Mr. M. VENKATESH**  
Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

Devipati Venkata Ramana & Dr. Hima Sekhar

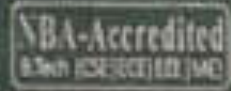
## MIC College of Technology

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an ISO 9001:2008  
Certified Institute

2018-2019



Devineni Venkata Ramana & Dr.Hima Sekhar  
**MIC College of Technology**  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "THERMO GRAVIMETRIC ANALYSIS OF CARBON FIBER REINFORCED POLYMER COMPOSITE WITH BASALT POWDER AS FILLER MATERIAL" which is a bonafide work carried out by A. SAI, S. SAI SRINIVAS CHOWDARY, B. GOPI SAI TEJA, M. CHARAN SAI DURGA CHAND & A.NAVEEN bearing registration number 15H71A0369, 15H71A0371, 15H71A0354, 15H71A0353 & 15H71A0363 in partial fulfilment for the award of degree of bachelor technology in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

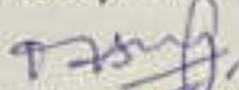
Guide

  
Mr. M. VENKATESH

Assistant Professor



Head of the Department

  
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Professor



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Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES  
OF ZA27 ALLOY REINFORCED WITH BORON NITRIDE**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

**Y.MANOHAR REDDY(15H71A0321)**

**B.SRINIVAS (15H71A0335)**

**D.V.S.N.MALLIK(15H71A0343)**

**V.RAMA KISHAN (15H71A0337)**

**K.HAITHANYA (15H71A0306)**

*Under the Research Guidance of*

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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certify that the project report entitled "EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES OF ZA27 ALLOY REINFORCED WITH BORON NITRIDE" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, is a bonafide work done by Y. MANOHAR REDDY, B. SRINIVAS, D. V. S. N. MALLIK, V. RAMA KISHAN, N. CHAITHANYA KUMAR bearing Regd.No.15H71A0321, 15H71A0338, 15H71A0343, 15H71A0331, 15H71A0306 under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

Project Guide

Mr. R. Ranjith Kumar



Head of the Department

Dr. M. Sreenivasa Rao

  
Principal

Dr. Y. SUDHEER BABU, M.D., JNTU  
**Dr. Y. Sudheer Babu**  
Devireddy Venkata Ramesh & De Hirna Sekhar  
MIC College of Technology  
KANCHIKACHARLA, Krishna District

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



FABRICATION OF Al-5083 COMPOSITE AND STUDY ITS  
MICROSTRUCTURAL AND MECHANICAL PROPERTIES EVOLUTION

A Project Report submitted to  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
in partial fulfillment for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

B. GNANAN DILEEP	(16H75A0330)
M.GOPINATH REDDY	(16H75A0331)
V. ENOSH KUNAR	(16H75A0395)
K. KOUNMAL	(16H75A03A1)

Under the Guidance of

Mr. P. BHAGAT SURESH, M.Tech, Ph.D.,

Associate Professor

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Devineni Venkata Ramana & Dr. Hima Sekhar  
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## DEPARTMENT OF MECHANICAL ENGINEERING

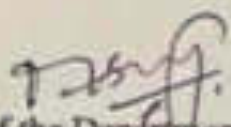
### CERTIFICATE

This is to certify that the project report entitled "FABRICATION OF AI-5083 COMPOSITE AND STUDY ITS MICROSTRUCTURAL AND MECHANICAL PROPERTIES EVOLUTION" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, is a bonafide work done by B.GNANA DILEEP, MGOPINATH REDDY, V.ENOSH KUMAR, K.KOUSHAL bearing Regd. No. 16H75A0330, 16H75A0331, 15H71A0395, 15H71A03A1 under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
Project Guide

Mr. P. Bhagat Singh



  
Head of the Department

Dr. M. Sreenivasa Rao


  
Principal

Dr. Y. Sudheer Babu

**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
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**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**STRUCTURAL ANALYSIS OF CONNECTING ROD USING  
ANSYS WITH DIFFERENT MATERIALS**

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

K. PAVAN KUMAR (16H75A0332)  
B. BALAJI NAYAK (16H75A0329)  
M. CHAITANYA (15H71A0394)

Under the Guidance of

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2018-2019



Devineni Venkata Ramana & Dr.Hima Sekhar  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certify that the project report entitled "STRUCTURAL ANALYSIS OF CONNECTING ROD USING ANSYS WITH DIFFERENT MATERIALS", being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, is a bonafide work done by **K. PAVAN KUMAR, B. BALAJI NAYAK, M. CHAITANYA**, bearing Regd.No.16H75A0332, 16H75A0329, 15H71A0394, under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

Project Guide

Mr. Narendra Khatre



Head of the Department

Dr. M. Sreenivasa Rao

Principal

**Dr. Y. Sudheer Babu**  
Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

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MIC College of Technology  
KANCHIKACHERLA, Krishna District

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



FABRICATION AND EVALUATION OF THERMAL PROPERTIES OF  
GLASS FIBER REINFORCED POLYSTERE COMPOSITE

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

M. SURENDRA BABU (16H75A0313)

D. ASHOK REDDY (15H71A0304)      M. MALLIKARJUNA RAO (15H71A0319)

D. KUMAR (15H71A0317)      M. ASHOK (15H71A0303)

Under the Supervision of

Dr. B. SURESH W. TEJA  
Assistant Professor

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NAAC  
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Grade

2015-2017

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MIC College of Technology



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Devineni Venkata Ramana & Dr. Hima Sekhar  
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2018-2019

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E.Tech | CSE | ECE | EEE | ME

Accredited by  
**NAAC A**  
With Grade  
An ISO 9001:2008  
Certified Institute

### CERTIFICATE

Certified that the project entitled "FABRICATION AND EVALUATION OF THERMAL PROPERTIES OF GLASS FIBER REINFORCED POLYESTER COMPOSITES" which is a Bonafede work carried out by M. SURENDRA BABU, D. ASHOK REDDY, M. MALLIKARJUNA RAO, D. KUMAR and M. ASHOK bearing register numbers 16H75A0313, 15H71A0304, 15H71A0319, 15H71A0317 & 15H71A0303 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

**Project Guide**

**Head of the Department**

**Mr. B. SANDEEP**

Assistant Professor



**Dr. M. SREENIVASA RAO**

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**Principal**

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**Examiner 1**

**Examiner 2**



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



TESTING AND CHARACTERIZATION OF FRICTION STIR  
WELDED AL6061 ALLOY

A Project Report submitted to

Jawaharlal Nehru Technological University Kakinada

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

AMUDULA SRINIVASU

(157751578)

Under the supervision of

Dr. J. S. S. S. S. S.

Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

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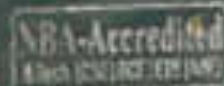
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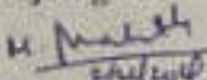


**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

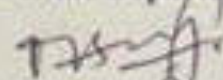
Certified that the project entitled "TESTING AND CHARACTERIZATION OF FRICTION STIR WELDED AL6061 ALLOY" which is a bonafide work carried out by AMUDALA SRINIVASU bearing register number (15H71A0378) in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project guide

  
**Mr. M. PRASANTH**  
Assistant Professor



Head of the Department

  
**Dr. M. SREENIVASA RAO**  
Professor

  
Principal

**Dr. Y. SUDHEER BABU**  
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Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**EXPERIMENTAL INVESTIGATION OF MICRO STRUCTURE AND  
MECHANICAL PROPERTIES OF TIG WELDED AA6351 ALLOY**

A project report submitted to  
Jawaharlal Nehru Technological University, Kakinada.  
In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

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K.VENKATESH (15H71A0387)

N.VAMSI (15H71A0383)

CH.ANIL KUMAR (15H71A0346)

R.SURYA KAIK (15H71A0382)

Under the Esteemed Guidance of

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M.Tech, (Ph.D)

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**DEPARTMENT OF MECHANICAL ENGINEERING**

Devineeni Venkata Ramana & Dr.Hilma Sekhar

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2018-2019



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Accredited by  
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WIB GRAD A

As 2017-2019  
2 year term

## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certified that the project report entitled "EXPERIMENTAL INVESTIGATION OF MICRO STURCTURE AND MECHANICAL PROPERTIES OF TIG WELDED AA6351 ALLOY" being submitted for the partial fulfilment of the requirements for the degree in Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, is a bonafide work done by MD.IMRAN, K.VENKATESH, N.VAMSI, CHANIL KUMAR, RSURYA NAIK bearing Regd.No. 16H75A0317, 15H71A0387, 15H71A0383, 15H71A0346, 15H71A0382 under my guidance during the academic year 2018-19 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

Project Guide

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Associate Professor



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Head of the Department

Dr. M.Sreenivasa Rao

Professor

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PRINCIPAL

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MIC College of Technology  
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Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**EVALUATING MECHANICAL PROPERTIES OF  
LUFFA FIBER REINFORCED POLYESTER  
COMPOSITE**

A Project Report Submitted to the  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA

in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

**CH. RAJESH [15H71A0330]**

**D.V.S. JAGADEESH KUMAR [15H71A0341] S. ABHILASH [16H75A0301]**

**B. SUBBARAO [16H75A0312] B.V.V.N. RAJESH [15H71A0342]**

*Under the Esteemed Guidance of*

**Ms N. SIVA NAGAMANI (Assistant professor)**

&

**Dr. G. RAJESH (Professor)**

**Department of Mechanical Engineering**

**Devineni Venkata Ramana & Dr.Hima Sekher**

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2018-2019



Devineni Venkata Ramana & Dr.Hima Sekhar  
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## DEPARTMENT OF MECHANICAL ENGINEERING CERTIFICATE

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Project Guide

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Principal

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KANCHIKACHERLA, Krishna District

Head of the Department

Dr. M. Sreenivas Rao

Professor

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**EFFECTS OF BASALT POWDER ON THERMAL PROPERTIES OF  
GLASS FIBRE/EPOXY COMPOSITES**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

A. KAVYA (16H75A0305)

SK. NAWAZ SHARIFF (15H71A0324)

R. KALYAN (15H71A0316)

M. SAI KUMAR (15H71A0334)

G. HEMANTH (15H71A0313)

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MIC College of Technology



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Under the Esteemed Guidance of  
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Devineni Venkata Ramana & Dr.Hima Sekhar  
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NAACA  
NATIONAL ASSOCIATION  
OF AMERICAN COLLEGE  
AND UNIVERSITY  
ACCREDITORS

2018-2019



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**CERTIFICATE**

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**Project Guides**

*Mr. S. Mahesh Babu*  
**Mr. S. MAHESH BABU** 14/12/19  
 Assistant Professor



**Head of the Department**

*Dr. M. Sreenivasa Rao*  
**Dr. M. SREENIVASA RAO**  
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**Principal**

**Dr. Y. SUDHEER BABU**  
 Dr. Y. SUDHEER BABU, Ph.D., IITM  
 PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
 MIC College of Technology  
 KANCHIKACHERLA, Krishna District

*Examiner 1*  
**Examiner 1**

**Examiner 2**



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



COMPARATIVE STUDY ON MICROSTRUCTURE AND  
MECHANICAL PROPERTIES OF TIG AND FSW  
PROCESSED AL-5083 ALLOY

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In the partial fulfillment for the Award of the degree of  
BACHELOR OF TECHNOLOGY

IN  
MECHANICAL ENGINEERING

By

K. BALANJIREDDY (15H17A0349)

C. JAGADESH KUNIA (15H17A0350)      S. ABINAVINDHAN (15H17A0347)

Under the Esteemed Guidance of  
MR. M. PRADEEP  
Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

Department Venkata Ramana & Dr. H. V. Sekhar

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As per NAAC 2018  
Certified Institute

## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "COMPARATIVE STUDY ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF TIG AND FSW PROCESSED AL-5083 ALLOY" which is a bonafide work carried out K.BALANJI REDDY, G.JAGADESH KUMAR and S.SARAVIND BABU bearing register numbers 15H71A0349, 15H71A0356 and 15H71A0347 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

**MR. M. PRASHANTH**

Assistant Professor



Head of the Department

**DR. M. SREENIVASA RAO**

Professor

Principal

**Dr. Y. SURESH BABU, Ph.D., IITM**  
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Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**EVALUATING FLEXURAL AND IMPACT PROPERTIES OF PHRAGMITES  
KARKA FIBER REINFORCED POLYESTER COMPOSITES**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfilment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

**M. GURU PRASAD (15H71A0311)**

**D. RUDRA KUMAR (15H71A0333)**

**K. PREETHI REDDY (15H71A0327)**

**SK. HAJI BASHA (15H71A0305)**

**P. GOPI (15H71A0309)**

Under the Esteemed Guidance of

**Dr. G. RAJESH, Professor**

**DEPARTMENT OF MECHANICAL ENGINEERING**



Devineeni Venkata Ramana & Dr.Hima Sekhar

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

Certified that the project entitled "EVALUATING FLEXURAL AND IMPACT PROPERTIES OF PHARGMITES KARKA FIBER REINFORCED POLYESTER COMPOSITE" which is a bonafide work carried out by M. GURU PRASAD, D. RUDRA KUMAR, K. PREETHI REDDY, SK. BAJI BASHA and P. GOPI bearing register numbers 15H71A0311, 15H71A0333, 15H71A0327, 15H71A0305 and 15H71A0309 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

Dr. G. Rajesh

Professor



Principal

Head of the Department

Dr. M. Sreenivasa Rao

Professor

Examiner

Dr. Y. Sudheer Babu  
Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHI (II) LA, Krishna District

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**PERFORMANCE ANALYSIS OF BIODIESEL ON  
FOUR STROKE CI ENGINE BY USING WASTE  
COOKING OIL**

A project report submitted to Jawaharlal Nehru Technological University  
Kakinada in partial fulfillment for the award of the degree

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

**K. MANIKUMAR  
(16H75A0319)**

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PR02181

**P. SAI KRISHNA  
(15H71A0370)**

**S. SUBASH**

**(15H71A0379)**

**K. SAI KUMAR  
(16H71A0323)**

**P. VIJAYSRAVAN**

**(15H71A0389)**

Under the Supervised Guidance of  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certify that the project report entitled "PERFORMANCE ANALYSIS OF BIODIESEL ON FOUR STROKE CI ENGINE BY USING WASTE COOKING OIL" being submitted for the partial fulfillment of the requirements for the award of degree in BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING from Jawaharlal Nehru Technological University Kakinada is a bonafide work done by K. MANI KUMAR, P. SAI KRISHNA, K. SAI KUMAR, S.SUBASH P.VIJAY SRAVAN bearing register numbers 16H75A0319, 15H71A0370, 16H75A0323, 15H71A0379, 15H71A0389 during the year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to another institution or university for the award of any degree.

PROJECT GUIDE

B. SREENIVASA RAO



HEAD OF THE DEPARTMENT

Dr. M. SREENIVASA RAO

  
PRINCIPAL

Dr. Y. SUDHEER BABU

Dr. Y. SUDHEER BABU, Ph.D., IITM  
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Devireni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIACHERLA, Krishna District

  
EXAMINER 1  
EXAMINER 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



OPTIMIZATION OF MACHNING PARAMETERS IN MACHNING OF  
HARDENED EN24 STEEL

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

P.NAVEEN (15H71A0364)

A.B.MANIKANTA SAI (15H71A0348) P.VIJAY (15H71A0368)  
K.BHARATH CHANDRA (15H71A0350) G.SURESH (16H75A0324)

Under the Esteemed Guidance of

Dr.M.KALADHAR B.E.,M Tech., Ph D.,MIE  
Professor

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

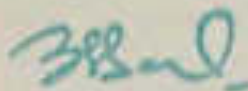
Certified that the project entitled "OPTIMIZATION OF MACHNING PARAMETERS IN MACHNING OF HARDENED EN24 STEEL" which is a bonafide work carried out by P.NAVEEN, A.B.MANIKANTA SAL, K.BHARATH CHANDRA, P.VIJAY and G.SURESH bearing register numbers 15H71A0364, 15H71A0348, 15H71A0350, 15H71A0388 and 16H75A0324 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

  
Project guide

Dr. M. Kaladhar

Professor






Principal

Dr. Y. Sudheer Babu

**Dr.Y. SUDHEER BABU, Ph.D., IITM**  
**PRINCIPAL**

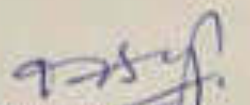
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Head of the Department

Dr. M. Sreenivasa Rao

Professor

  
Examiner 1

  
Examiner 2



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



INVESTIGATION OF THE PERFORMANCE OF FOUR STROKE  
SINGLE CYLINDER DIESEL ENGINE WITH THE BIODIESEL  
DERIVED FROM NEEM OIL

Jawaharlal Nehru Technological University Kakinada

In partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

BY

K. LOKESH

(16H75A0318)

U. VENKATA BHANU PRASAD

(15H71A0385)

M.SANDEEP

(15H71A0374)

G.NARENDRA

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(15H71A0376)

UNDER THE ESTEEMED GUIDANCE OF

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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "INVESTIGATION OF THE PERFORMANCE OF FOUR STROKE SINGLE CYLINDER DIESEL ENGINE WITH THE BIODIESEL DERIVED FROM NEEM OIL" which is a bonafide work carried out by **K. LOKESH, U.VENKATA BHANU PRASAD, G.NARENDRA, M.SANDEEP, D.SHARTH CHAND** bearing register numbers 16H75A0318, 15H71A0385, 15H71A0361, 15H71A0374, 15H71A0376 in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

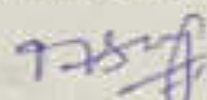
**Project Guide**

  
**Mr. SK. MAHABOOB BASHA**

**Asst. PROFESSOR**



**Head of The Department**

  
**Dr. M. SREENIVASA RAO**

**PROFESSOR**



**PRINCIPAL**

**Dr. Y. SUDHAKAR BABU**  
**Dr. Y. SUDHAKAR BABU**  
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Devireni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
**KANCHIKACHERLA, Krishna District**

  
**Examiner 1**

  
**Examiner 2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



OPTIMIZATION OF MACHNING PARAMETERS IN MACHNING OF  
HARD CHROME PLATED AISI 1045 STEEL

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

CH.VENKATA TEJA (16H75A0327)

K.UDAY KUMAR

(16H75A0326)

SK.HARSHAD

(15H71A0355)

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(15H71A0372)

V.MANIKHANTA SURYA

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Under the Esteemed Guidance of

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Professor

DEPARTMENT OF MECHANICAL ENGINEERING

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E Tech (ISE|ECE|EEE|ME)


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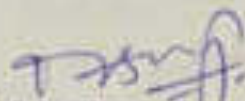
## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "OPTIMIZATION OF MACHINING PARAMETERS IN MACHINING OF HARD CHROME PLATED AISI 1045 STEEL" which is a bonafied work carried out by CH.VENKATA TEJA, KUDAY KUMAR, SK.HARSHAD, A.SANDEEP, VMANIKHANTA SURYA bearing register numbers 16H75A0327, 16H75A0326, 15H71A0355, 15H71A0372, 15H71A0359 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the academic year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
Project Guide  
Dr.M.Kaladhar




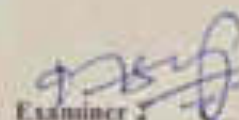
  
Head of the Department  
Dr. M. Sreenivasa Rao

  
Principal  
Dr. Y.Sudheer Babu

**Dr.Y. SUDHEER BABU, Ph.D,IITM**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
\* ANCHIKACHERLA, Krishna District \*

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**PERFORMANCE ANALYSIS OF DIESEL ENGINE  
WITH LEMON GRASS AND JATROPHA  
BIO-DIESEL AS A FUEL**

A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By/

**M. RAVINDRA BABU  
(15H75A0308)**

**D. VENKATA DURGA PRASAD  
(15H75A0314)**

**T. HEMANTH SANKUMAR  
(15H71A0314)**

**M. PAVAN  
(15H71A0326)**

**CH. SAI PHANEENDRA  
(15H71A0335)**

Under the Esteemed Guidance of  
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(Assistant professor)

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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certify that the project entitled "PERFORMANCE ANALYSIS OF DIESEL ENGINE WITH LEMON GRASS AND JATROPHA BIO-DIESEL AS A FUEL" which is bonafide work carried out by **M. RAVINDRABABU, D.VENKATA DURGA PRASAD, T.HEMANTH SAI KUMAR, N.PAVAN, CH. Sai PHANEENDRA** bearing register 16H75A0308, 16H75A0314, 15H71A0314, 15H71A0326, 15H71A0335. Submitted to Jawaharlal Nehru Technological University Kakinada, during the year 2018-2019. It is certified that all suggestions indicated for internal assessment have been incorporated in the report. Project report has been approved as it satisfies the academic requirements in respect project work presented.

Project Guide

Mr. CH. Anil Kumar

Asst. professor



Principal

Head of the Department

Dr. M. Sreenivasa Rao

professor

Examiner -I

Dr. Y. Sudheer Babu

Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hirnasakhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

Examiner -II

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**OPTIMIZATION OF MILLING PROCESS IN MACHINING OF  
MONEL-400 SUPER ALLOY**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

V. RAMESWAR (15H71A0332)

M. GOPI AYYAPPA (16H75A0302)

T. LOKESH (16H75A0310)

V. LIKHITH BALARAM (15H71A0318)

B. NIKHIL (16H75A0306)

Under the Esteemed Guidance of  
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## DEPARTMENT OF MECHANICAL ENGINEERING CERTIFICATE

Certified that the project entitled "OPTIMIZATION OF MILLING PROCESS IN MACHINING OF MONEL-400 SUPER ALLOY" which is a bonafide work carried out by V. RAMESWAR, M. GOPI AYYAPPA, T. LOKESH, V. LIKHITH BALARAM and B. NIKHIL bearing register numbers 15H71A0332, 16H75A0302, 16H75A0310, 15H71A0318 and 16H75A0306 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.



Project Guide

Dr. M. Sreenivasa Rao  
Professor

Head of the Department

Dr. M. Sreenivasa Rao  
Professor

Principal

Examiner 1

Dr. Y. Sudheer Babu

Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
ANCHIKACHERLA, Krishna District

Examiner 2



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



COMPUTATIONAL ANALYSIS OF FLOW THROUGH DUCTS WITH  
VARIABLE GEOMETRIES

A Project Report submitted to  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

PATTAPU SAI DATTA  
(15H71A03B8)

RHOGIREDDY SRI SAI CHARAN  
(16H75A0339)

SHEIK ATHAULLAH  
(14H71A0307)

MOHAMMED RAFI  
(15H71A03B5)

Under the Esteemed Guidance of  
Mr. CH. S. R. T. P. SAI  
Assistant Professor  
Department of Mechanical Engineering

Deviseni Venkata Ramana & Dr. Uma Sekhar

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2018-2019

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Devineni Venkata Ramana & Dr. Hima Sekhar  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "COMPUTATIONAL ANALYSIS OF FLOW THROUGH DUCTS WITH VARIABLE GEOMETRIES" which is a bonafide work carried out by PATTAPU SAI DATTA, BHOGIREDDY SRI SAI CHARAN, SHAIK ATHAULLAH and MOHAMMED RAFI bearing register numbers 15H71A03B8, 16H75A0339, 14H71A0307 and 15H71A03B5 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

Mr. CH. S. R. T. P. SAI

ASSISTANT PROFESSOR



Head of The Department

Dr. M. SREENTVASA RAO

PROFESSOR

PRINCIPAL

Dr. Y. SUDHEER BABU

Dr. Y. SUDHEER BABU, Ph.D/JITM

PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



EVALUATING THERMAL CONDUCTIVITY OF  
AGAVE AMERICANA FIBRE REINFORCED POLYESTER  
COMPOSITE FILLED WITH CARBON POWDER

A project report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

P. VENKATA NAGA GOPI (15H71A03C7)

N. NAVEEN (16H75A0335)

P. VENKATA SAI KUMAR (16H75A0342)

P. SAI KUMAR (14H71A0336)

V. SAI JAGADEESH (15H71A03B9)

Under the Esteemed Guidance of

Mrs. K. SUPRIYA  
Assistant Professor

Dr. G. RAJESH  
Professor

Department of Mechanical Engineering  
Devineni Venkata Raghava & Dr. Hima Sekhar



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Devineni Venkata Ramana & Dr. Himra Sekhar  
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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

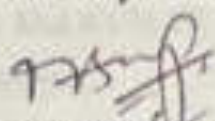
This is to certify that the project report entitled "EVALUATING THERMAL CONDUCTIVITY OF AGAVE AMERICANA FIBRE REINFORCED POLYESTER COMPOSITE FILLED WITH CARBON POWDER" being submitted for the partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada, is a bonafide work done by P.VENKATA NAGA GOPI, N.NAVEEN, P.VENKATA SAI KUMAR, P.SAI KUMAR, V.SAI JAGADEESH bearing Regd No 15H71A03C7, 16H75A0335, 16H75A0342, 14H71A0336, 15H71A03B9 under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

**Project Guides**

**Head of the Department**

  
Mrs. K. SUPRIYA  
Assistant Professor



  
Dr. M. SREENIVASA RAO,  
Professor

  
Dr. G. RAJESH  
Professor



**Principal**  
Dr. Y. SUDHEER BABU  
Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**PERFORMANCE EVALUATION OF PYRAMID TYPE SOLAR STILL  
WITH CLAY POTS**

A Project Report submitted to  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

M.N. ARUN KUMAR (15H71A03A7)

CH. PUNNA REDDY (15H71A03B4)

Y. ARAVINDA SWAMY (15H71A0392)

K. DURGA RAO (15H71A03D0)

Under the Esteemed Guidance of

**Dr. V. NARESH**  
Assistant Professor

Department of Mechanical Engineering  
Devineni Venkata Ramana & Dr. Himra Sekhar

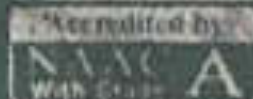
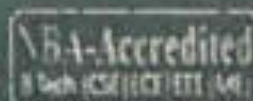
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2018-2019



Devineni Venkata Ramana & Dr. Hima Sekhar  
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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE**

Certified that the project entitled "PERFORMANCE EVALUATION OF PYRAMID TYPE SOLAR STILL WITH CLAY POTS" which is a bonafide work carried out by **MN. ARUN KUMAR, CH. PUNNA REDDY, Y. ARAVINDA SWAMY, and K. DURGA RAO** bearing register numbers **15H71A03A7, 15H71A03B4, 15H71A0392, and 15H71A03D0** in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

**Project Guide(s)**



*Y. Naresh*  
09/04/19  
**Dr. Y. Naresh**  
Associate Professor

**Head of the Department**

*M. Sreenivasa Rao*  
**Dr. M. Sreenivasa Rao**  
Professor

*Sudheer Babu*

**Principal**

**Dr. Y. Sudheer Babu**  
**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna Distrie

*[Signature]*  
**Examiner 1**

*[Signature]*  
**Examiner 2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**REDUCING THE IDLE TIME OF BATTERY STRIP PASTING  
LINE AT AMARA RAJA BATTERIES LIMITED**

A Project Report Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

**P. SRIMAHESH (151171A004)**

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MIC College of Technology



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Under the Internal Guidance of  
**Mr. Narendra Khatre**  
Assistant Professor

Under the External Guidance of  
**Mr. P. Amarnath**  
Assistant Manager  
Central Maintenance  
ABD-2  
Amara Raja Batteries Ltd.

DEPARTMENT OF MECHANICAL ENGINEERING

Devisetti Venkata Ramana & Dr. Hima Sekhar

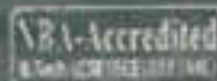
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2018-2019



## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled **"REDUCING THE IDLE TIME OF BATTERY STRIP PASTING LINE AT AMARA RAJA BATTERIES LIMITED"** which is a bonafide work carried out by **P. SRIMAHESH** bearing register number **15H71A03C4** in partial fulfilment for the award of degree of bachelor of technology in **MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year **2018-19**. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Internal Guide

**Mr. Narendra Khatre**  
Asst. Professor



Head of the Department

**Dr. M. Sreenivasa Rao**  
Professor

External Guide

**Mr. P. Amarnath**  
Asst. Manager,  
Central Maintenance, ABD-2,  
Amara Raja Batteries Ltd.

Principal

**Dr. Y. Sudheer Babu**, Ph.D., IITM  
PRINCIPAL  
Professor  
Devineni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

Examiner 1

Examiner 2



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



EXPERIMENTAL INVESTIGATION OF PYRAMID TYPE SOLAR  
CELL WITH POROUS MATERIAL.

A Project Report submitted to  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
in partial fulfillment for the award of the degree of  
BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

M.L. NARAYANA (16H75A0333)

CH. SUNI SUMAN (15H71A0305)

S.K. M.A.K. AZAD (15H71A03A9)

V. RAJA SURENDRA (15H71A03314)

S. PRASANNA KUMAR (15H71A03B7)

Under the Esteemed Guidance of

Dr. NAVEEN SHARMA  
Assistant Professor

Department of Mechanical Engineering

Deviana Venkata Ramana & Dr. Hina S. Khar

**MIC College of Technology**

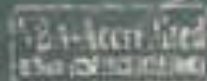
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2018-2019





Devineni Venkata Ramana & Dr.Hima Sekhar  
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Accredited by  
**NAAC A**  
With Grade  
As ISO 9001:2009  
Certified Institute

## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "EXPERIMENTAL INVESTIGATION OF PYRAMID TYPE SOLAR STILL WITH POROUS MATERIAL" which is a bonafide work carried out by M.L. NARAYANA, CH. SUNI SUMANTH, SK. M.A.K. AZAD, V. RAJA SURENDRA, and S. PRASANNA KUMAR bearing register numbers 16H75A0333, 15H71A03C5, 15H71A03A6, 15H71A03B6, and 15H71A03B2 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide(s)

Head of the Department

Dr. Naveen Sharma  
Associate Professor



Dr. M. Sreenivasa Rao  
Professor

  
Principal

Dr. Y. Sudheer Babu  
Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

Examiner 1

  
Examiner 2



EXTRACTION OF AVAILABLE THERMAL ENERGY AND  
GENERATING ELECTRIC POWER FROM EXHAUST GAS

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfilment for the Award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

K. SAI KRISHNA - 16H75A0322

A. SWAMY - 16H75A0325

G. SANDEEP - 15H71A0373

J. LEELA SAI KRISHNA - 15H71A0357

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MIC College of Technology



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Under the Guidance of  
**Mr. P.K.VISHWAKARMA**  
Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

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Deviveni Venkata Ramana & Dr. Hima Sekhar  
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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

Certified that the project entitled "EXTRACTION OF AVAILABLE THERMAL ENERGY AND GENERATING ELECTRIC POWER FROM EXHAUST GAS" which is a bonafide work carried out by **K. SAI KRISHNA, A. SWAMY, G. SANDEEP & J. LEELA SAI KRISHNA** bearing registration number 16H75A0322, 16H75A0325, 15H71A0373 & 15H71A0357 in partial fulfilment for the award of degree of bachelor technology in **MECHANICAL ENGINEERING** by Jawaharlal Nehru Technological University Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Guide

*Pentu*

**Mr. P.K. VISHWAKARMA**

Assistant professor



Head of the Department

*[Signature]*

**Dr. M. SREENIVASA RAO**

Professor

*[Signature]*

Principal

**DR. SUDHISHER BABU** (D. Litt)  
PRINCIPAL

Deviveni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

*[Signature]*

Examiner 1

*[Signature]*

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



PERFORMANCE ANALYSIS OF A SALT GRADIENT SOLAR POND

A Project Report submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

In partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

BY

R. NARESH KUMAR (15H71A0300)

G. AVINASH (15H71A0393)

B. SIVAN RAJU (16H75A0346)

T. MAHESH (15H71A03A4)

P. RANESH (15H71A03B7)

Under the Esteemed Guidance of

Mr. B. ASHWINI KUMAR  
Assistant Professor

Dr. NAVEEN SHARMA  
Associate Professor

Department of Mechanical Engineering

Gov. Jeeva Yenkata Ramana & Dr. Hima Seshu

MIC College of Technology

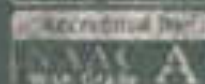
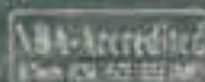
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e-mail: [mic@mic.ac.in](mailto:mic@mic.ac.in), [mic@mic.ac.in](mailto:mic@mic.ac.in), Website: [www.mic.ac.in](http://www.mic.ac.in)

2018-2019





Devireni Venkata Ramana & Dr.Hima Sekhar  
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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE**

Certified that the project entitled "PERFORMANCE ANALYSIS OF A SALT GRADIENT SOLAR POND" which is a bonafide work carried out by **R. NARESH KUMAR, G. AVINASH, B. SUMAN RAJU, T. MAHESH, and P. RAMESH** bearing register numbers 15H71A03A9, 15H71A0393, 16H75A0340, 15H71A03A4, and 15H71A03B7 in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

**Project Guide(s)**

**Head of the Department**

**Dr. Naveen Sharma**  
Associate Professor

**Mr. B. Ashwini Kumar**  
Assistant Professor

**Dr. M. Sreenivasa Rao**  
Professor

  
**Principal**

**Dr. Y. Sudheer Babu**  
**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
**PRINCIPAL**

Devireni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

  
**Examiner 1**  
**Examiner 2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



EXPERIMENTAL INVESTIGATION OF THERMAL  
CONDUCTIVITY AND RHEOLOGICAL PROPERTIES OF Cu-Zn  
HYBRID NANO PARTICLES IN ETHYLENE GLYCOL

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

R. ANIL (16H75A0316)

(16H75A0316)

J. PARDHASARADHI (15H71A0004) (15H71A0004)

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Devineni Vankota Raju & Co. Sathar  
MIC College of Technology



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Under the supervision of  
Mr. A. KAGA, Assistant Professor  
Assistant Lecturer

Department of Mechanical Engineering

Devineni Vankota Raju & Co. Sathar

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Devineni Venkata Ramana & Dr. Hima Sekhar  
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E-mail: [mic@miccollegetechnology.com](mailto:mic@miccollegetechnology.com), Website: [www.miccollegetechnology.com](http://www.miccollegetechnology.com)

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EQUIS (EFMD EQUIS)

Accredited by  
**NAAC A**  
With Grade

As per NAAC 2008  
Certified Institute

**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE**

Certified that the project entitled "EXPERIMENTAL INVESTIGATION OF THERMAL CONDUCTIVITY AND RHEOLOGICAL PROPERTIES OF Cu-Zn HYBRID NANO PARTICLES IN ETHYLENE GLYCOL" which is a bonafide work carried out by **R. ANIL, J. PARDHA SARADHI, D. VENKATA AKHIL, N. VENKATA PAVAN KALYAN** bearing register numbers 16H75A0315, 15H71A0365, 15H71A0384, 15H71A0386 in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

**Mr. A. Naga Pavan Kumar**  
Asst. Professor



Head of the Department

**Dr. M. Sreenivasa Rao**  
Professor

Principal

**Dr. Y. Sudheer Babu**

**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

**Examiner 1**

**Examiner 2**



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



STUDY AND MONITORING OF PLATE PREPARATION SECTION IN  
INDUSTRIAL BATTERY DIVISION IN AMARA RAJA BATTERIES LIMITED

Submitted to  
Jawaharlal Nehru Technological University, Kakinada,  
In partial fulfillment of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

**B. SRIKANTH (15H71A0377)**

Central Library

Dr. J. Venkateswara Rao & Miss. Sushar  
MIC College of Technology



PR02175

Under the Guidance of  
**Mr. PRASHANTH M**  
Assistant Professor, MIC  
Internal guide

Under the Guidance of  
**Mr. POORNA CHANDRA E**  
External guide  
Assistant Manager, PLP In charge,  
Industrial Battery Division,  
AMARA RAJA BATTERIES Ltd.

DEPARTMENT OF MECHANICAL ENGINEERING

Devisent Venkateswara Ramana & Dr. Hima Sekhar

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2018-2019



Devireni Venkata Ramana & Dr. Himra Sekhar  
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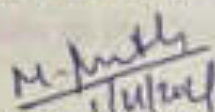


**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

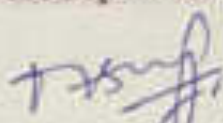
Certified that the project entitled **"STUDY AND MONITORING OF PLATE PREPARATION SECTION IN INDUSTRIAL BATTERY DIVISION IN AMARA RAJA BATTERIES LIMITED"** which is a bonafide work carried out by **B. SRIKANTH** bearing register number **15H71A0377** in partial fulfilment for the award of degree of bachelor technology in **MECHANICAL ENGINEERING** by Jawaharlal Nehru Technological University, Kakinada during the year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Internal Guide**

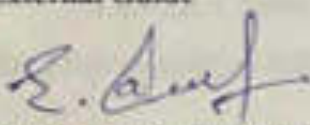
  
**Mr. Prashanth M**  
Asst Professor



**Head of the Department**

  
**Dr. Sreenivasa Rao M**  
Professor

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**Mr. Poorna Chandra E**  
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IBD, MVRLA Plant,  
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**Dr. Sudheer Babu Y**  
**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
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KANCHIKACHERLA, Krishna District

  
**Examiner 1**

  
**Examiner 2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**DROP TEST SIMULATION ON PEN DRIVE BY  
USING ANSYS**

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfilment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

V. SURESH BABU (15H71A0339)

K. SRIKANTH (15H71A0337)

V. HARI VAMSI (15H71A0312)

CH. JAGADEESH (16H75A0304)

M. MOHAN (15H71A03 )

Under the Esteemed Guidance of  
**Mr. K. RAVIKANTH**  
Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

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**DEPARTMENT OF MECHANICAL ENGINEERING**  
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Certified that the project entitled "**DROP TEST SIMULATION ON PEN DRIVE BY USING ANSYS**" which is a bonafide work carried out by **V.SURESH BABU, K.SRIKANTH, Y. HARI VAMSI, CH. JAGADEESH, and M. MOHAN** bearing register numbers **15H71A0339, 15H71A0337, 15H71A0312, 16H75A0304 and 15H1A0322** in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.



Project guide

Mr. K. Ravikanth

Asst. Professor

Head of the Department

Dr. M. Sreenivasa Rao

Professor

Principal

Dr. Y. Sudheer Babu

Dr. Y. SUDHEER BABU, Ph. D., IITM  
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MIC College of Technology  
KANCHIKACHERLA, Krishna District

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



EVALUATING THERMAL CONDUCTIVITY OF PHARGMITES  
KARKA FIBER REINFORCED POLYESTER COMPOSITE

A project report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

P. SRI NAGA V D SAI KUMAR (16H75A0338)

K. NARENDRA GOPI (15H71A03A8) B. PRAVEEN (15H71A03B3)

M. GURU PRASAD (15H71A0397) MD. IBRAHIM (15H71A0398)

Under the Esteemed Guidance of  
Ms. D. DIVYA, Assistant Professor  
&  
Dr. G. RAJESH, Professor

Department Of Mechanical Engineering  
Devineni Venkata Ramana & Dr. Hitesh Reddy



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2015-2019



Devireni Venkata Ramana & Dr. Himu Sekhar  
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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

This is to certify that the project entitled "EVALUATING THERMAL CONDUCTIVITY OF PHARGMITES KARKA FIBER REINFORCED POLYESTER COMPOSITE" which is a bonafide work carried out P. SRI NAGA V D SAI KUMAR, K. NARENDRA GOPI, B. PRAVEEN, M. GURU PRASAD and MD. IBRAHIM bearing register numbers 16H75A0338, 15H71A03A8, 15H71A03B3, 15H71A0397 and 15H71A0398 in partial fulfilment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

*D. Divya*  
Ms. D. Divya  
&  
Dr. G. Rajesh *Dr. G. Rajesh*



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Dr. M. Sreenivasa Rao

*Principal*

Principal

Dr. V. Sudheer Babu, Ph.D., IITM  
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KANCHIKACHERLA, Krishna District

*Examiner 1*  
Examiner 1

*Examiner 2*  
Examiner 2

(ii)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**INFLUENCE OF BASALT POWDER ON THERMAL STABILITY  
OF CARBON FIBER POLYESTER COMPOSITES**

A Project Report submitted to  
Jawaharlal Nehru Technological University, Kakinada  
in partial fulfillment for the Award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

BY

**SHAIK HUZefa (15H71A0315)**

**MR. SAIFULLA PASHA (16H75A0309)**

**K. DEEPU (15H71A0307)**

**K. OM SAI PHANINDRA (15H71A0325)**

**M. TARUN KUMAR (15H71A0340)**

Under the Guidance of

**Mr. N. YASU, Assistant Professor**

&

**Mr. S. MAHESH BABU, Assistant Professor**

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for programs

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Central Board

2015-2019



Devnani Venkata Ramana & Dr. Hima Sekhar  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "INFLUENCE OF BASALT POWDER ON THERMAL STABILITY OF CARBON FIBER POLYESTER COMPOSITES" which is a bonafide work carried out by SK. HUJEFA, MD. SAIFULLA PASHA, K. DEEPU, K. OM SAI PHANINDRA and M. TARUN KUMAR bearing register numbers 15H71A0315, 16H75A0309, 15H71A0307, 15H71A0325, 15H71A0340 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guides

Head of the Department

*Nalluri Vasu*  
Mr. N.VASU 1/4/19

Assistant Professor



*Dr. M. Sreenivasa Rao*  
Dr. M. Sreenivasa Rao  
Professor

*Mr. S. Mahesh Babu*  
Mr. S. MAHESH BABU

Assistant professor

*Dr. Y. Sudheer Babu*

Dr. Y. ~~Sudheer~~ **Principal** BABU, Ph.D., IITM

Devnani Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

Examiner 2

*Examiner 1*  
Examiner 1



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES  
OF HYBRID METAL MATRIX COMPOSITE PREPARED BY STIR  
CASTING

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

Submitted By  
D.RADHA KRISHNA (16H75A0336)  
V.SAI SRINIVASA RAO (15H71A03C1) B. SAI TEJA (16H75A0337)  
I.GOPI (15H71A0396) G.SRI KRISHNA (14H71A03C3)

Under the Esteemed Guidance of

Mr. R. Ranjith Kumar, M.Tech (Ph.D)  
Associate Professor



Department Of Mechanical Engineering  
Devineni Venkata Ramana & Dr. Himax Sekhar



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2018-2019

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No. 100/FICE/191/141

Accredited by  
NAAC  
With Grade  
A

As per NAAC 2013  
Criteria



## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certify that the project report entitled "EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES OF HYBRID METAL MATRIX COMPOSITE PREPARED BY STIR CASTING" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, is a bonafide work done by D.RADHA KRISHNA, V.SAI SRINIVASA RAO, B.SAI TEJA, LGOPI, G.SRI KRISHNA bearing Regd.No.16H75A0336,15H71A03C1,16H75A0337, 15H71A0396, 15H71A03C3 under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

Project Guide

Mr. R. Ranjith Kumar



Head of the Department

Dr. M. Sreenivasa Rao

Principal

Dr. Y. Sudheer Babu

**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**PRESSURE LOSS ANALYSIS OF FLUID FLOW IN AIR  
DUCTS USING ANSYS**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In the partial fulfillment for the Award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

**Y. RAVI CHANDRA (16H75A0320)**

**SK.M. MUNJER (15H71A0358)**

**P. ASHOK (16H75A0316)**

**P.SAI SURESH KUMAR (16H75A0321)**

**CHE. SUJITH KUMAR (15H71A0300)**

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MIC College of Technology



PR02174

Under the Esteemed Guidance of

**Mr. CHE. S. R. T. P. SAI**

Assistant Professor

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NAAC A

With Grade

Valid till 2019

Certified Institute

2018-2019



Devireni Venkata Ramana & Dr. Himu Sekhar  
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EQUIS ACCREDITED

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With Grade **A**

As per 1997, 2003  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "PRESSURE LOSS ANALYSIS OF FLUID FLOW IN AIR DUCTS USING ANSYS" which is a bonafide work carried out by Y. RAVI CHANDRA, SK.M. MUNEER, P. ASHOK, P. SAI ANIL KUMAR, CH. SUJITH KUMAR bearing register numbers 16H75A0320, 15H71A0358, 16H75A0316, 16H75A0321, 15H71A0380 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.



*Ch. Phani Sai*  
Project Guide

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Asst. Professor

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Dr. M. Sreenivasa Rao  
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Devireni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

*[Signature]*  
EXAMINER 1

*[Signature]*  
EXAMINER 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



"STATIC AND THERMAL ANALYSIS OF IC ENGINE PISTON BY  
USING DIFFERENT MATERIALS"

A project report submitted to  
Jawaharlal Nehru Technological University, Kakinada.  
In partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

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R. SAI RAMA RAJU  
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P. TEJA  
(Regd. No: 16H75A0341)

SHAIK ISMAIL  
(Regd. No: 15H7510399)

J. SURYA PRAKSH CHOWDARY  
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MIC College of Technology



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UNDER THE ESTEEMED GUIDANCE OF  
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NAAC  
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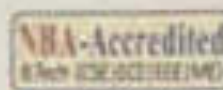
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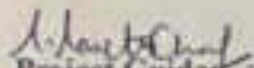


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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "STATIC AND THERMAL ANALYSIS OF IC ENGINE PISTON BY USING DIFFERENT MATERIALS" which is a bonafide work carried out by N. NAVEEN, R. SAI RAMA RAJU, P. TEJA, SHAIK ISMAIL, J. SURYA PRAKASH CHOWDARY bearing register numbers 15H71A03B0, 15H71A03C0, 16H75A0341, 15H71A0399, 15H71A03C6 in partial fulfilment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

  
Project Guide

Mr. S. SARATH CHANDRA

ASSISTANT PROFESSOR

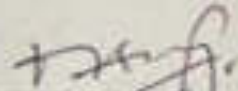


  
PRINCIPAL

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KANCHIKACHERLA, Krishna District

  
Examiner 1

  
HEAD OF THE DEPARTMENT

Dr. M. SREENIVASA RAO

PROFESSOR

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



EVALUATION OF MECHANICAL AND THERMAL PROPERTIES OF  
CHICKEN FEATHER FIBRE /PHENOL FORMALDEHYDE COMPOSITE

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In the partial fulfillment for the Award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

V MOHAN SAI (15H71A0363)

P.RAM SAI (15H71A0368)

MSANNI BABU (15H71A0375)

M SUMANTH (15H71A0381)

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Under the Esteemed Guidance of  
**Dr. V. SRINIVASA SAI**  
Professor

DEPARTMENT OF MECHANICAL ENGINEERING



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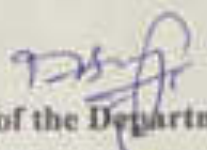



**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE**

Certified that the project entitled "EVALUATION OF MECHANICAL AND THERMAL PROPERTIES OF CHICKEN FEATHER FIBRE/PHENOL FORMALDEHYDE COMPOSITE" which is a bonafide work carried out by V.MOHAN SAI, P.RAM SAI, M.SANNI BABU, M.SUMANTH and P.RAM MOHAN bearing register numbers 15H71A0360, 15H71A0368, 15H71A0375, 15H71A0381 and 15H1A0367 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

  
Project guide  
**Dr. V.SRINIVASA SAI**  
Professor



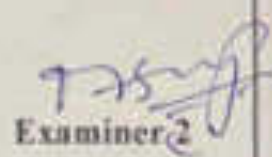
  
Head of the Department  
**Dr. M. Sreenivasa Rao**  
Professor

  
Principal

**Dr. Y. Sudheer Babu**  
Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devinevi Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2





## Department of Mechanical Engineering

**A.Y:2018-19**

### List of Major Projects

Batch No	Reg. No	Name of the Student	Project Supervisor	Project Title
A1	14H71A0322	VENKATA BHANU PRASAD U	R. Ranjith Kumar	Investigation of mechanical properties of animal teeth powder reinforced AL matrix composite prepared by stir casting
	14H71A0315	NARENDRA G		
	14H71A0306	SANDEEP M		
	14H71A0321	SARATHCHAND D		
	14H71A0334	ANIL R		
A2	14H71A0357	PARDHA SARADHI J	K.Srinivas	Optimize nozzle angle for nozzle minimization of stress in pressure vessel made of alloy A-Z 86
	14H71A0354	SAI SRINIVAS CHOWDARY S		
	15H75A0306	GOPI SAI TEJA B		
	14H71A0343	CHARAN SAI DURGA CHAND M		
	14H71A0348	NAVEEN A		
A3	15H75A0305	SAI A	Y.Naga prasad	Effect of sea shell particulate addition on the mechanical properties of aluminium metal matrix composite
	14H71A0309	SAI SRINIVAS CHOWDARY S		
	14H71A0301	GOPI SAI TEJA B		
	14H71A0335	CHARAN SAI DURGA CHAND M		
	14H71A0330	NAVEEN A		
A4	14H71A0359	MANI KUMAR K	Dr.G.Rajesh	Evaluation of Testing properties & Thermal conductivity of phrag
	14H71A0353	SAI KRISHNA P		
	14H71A0355	SAI KUMAR K		
	14H71A0318	SUBHASH S		
	14H71A0324	VIJAY SRAVAN P		
A5	15H75A0308	IMRAN MD	K.Ramesh	Design & Analysis of simple low frequency vibration Isolation system using Negative stiffness
	14H71A0344	VENKATESH K		
	14H71A0319	VAMSI KRISHNA N		
	14H71A0305	ANIL KUMAR CH		
	15H75A0302	SURYA NAIK R		
A6	14H71A0346	VENKATA TEJA CH	M.V.Ramana	Error idetification in finite element practice of a missile component
	14H71A0310	UDAY KUMAR K		
	14H71A0342	SAI A		
	14H71A0317	SAI SRINIVAS CHOWDARY S		
	14H71A0350	GOPI SAI TEJA B		
A7	14H71A0346	CHARAN SAI DURGA CHAND M	K.Sai chand	



	14H71A0310	NAVEEN A		Optimization of Green sand mould properties by using Taguchi based principal concept analysis (PCA)
	14H71A0342	MANI KUMAR K		
	14H71A0317	SAI KRISHNA P		
	14H71A0350	PUNNA REDDY CH		
A8	14H71A0308	ARAVINDA SWAMY Y	Ch.Sowjanya	Design & Analysis of Sand Bucket Excavator
	14H71A0332	DURGA RAO		
	14H71A0312	KRANTHI RANA DEV K		
	14H71A0358	LAKSHMI NARAYANA M		
	13H71A0331	SUNI SUMANTH CH		
A9	15H75A0301	MOULANA ABDULKALAM AZAD SK	M.Venkatesh	Design and analysis of aerodynamic drag reduction for SU vehicle Mahindra TUV 300
	14H71A0326	RAJA SURENDRA V		
	14H71A0339	PRASANNAKUMAR S		
	14H71A0341	SRI NAGA V D SAI KUMAR		
	14H71A0311	NARENDRA GOPI K		
A10	14H71A0325	PRAVEEN B	M.V.Ragavendra	Evaluation of tensile properties of agave americana reinforced polyester composites
	14H71A0356	GURU PRASAD M		
	14H71A0302	IBRAHIM MD		
	14H71A0338	NADEEM SK		
	14H71A0347	GNANA DILEEP B		
A11	15H75A0307	GOPINATH REDDY M	B.Srinivasa rao	Design and Analysis of solar Refrigeration & air conditioning system
	14H71A0352	ENOSH KUMAR V		
	14H71A0329	KOWSHAL K		
	14H71A0337	PUNNA REDDY CH		
	13H71A0305	ARAVINDA SWAMY Y		
A12	14H71A0349	DURGA RAO	G.V.V.N.G.Vital	Evaluation of mechanical properties of Basalt powder banana fiber reinforced polyester hybrid composite
	14H71A0345	KRANTHI RANA DEV K		
	14H71A0316	LAKSHMI NARAYANA M		
	14H71A0340	SUNI SUMANTH CH		
	14H71A0349	VENKATA BHANU PRASAD U		
A13	15H75A0304	NARENDRA G	K.Appalaraju	Influence of fiber orientation on mechanical properties of sisal,jute,flax and reinforced epoxy composites
	14H71A0303	SANDEEP M		
	14H71A0314	SARATHCHAND D		
	14H71A0304	ANIL R		
	14H71A0351	PARDHA SARADHI J		



B1	16H71A0320	RAVI CHANDRA Y	Ch S R T P Sai	design&fabrication of coconut dehusking machine
	15H71A0358	MAHE MUNEEER SK		
	16H75A0316	ASHOK P		
	16H75A0321	SAI ANIL KUMAR P		
	15H71A0380	SUJITH KUMAR CH		
B2	15H71A0377	SRIKANTH B	M. Prasanth	design and fabrication of free energy air pump
	15H71A0349	BALANJI REDDY K		
	15H71A0356	JAGADESH KUMAR G		
	15H71A0378	SRINIVASU A		
	15H71A0347	ARAVIND BABU A		
B3	15H71A0360	MOHAN SAI V	Dr. V. Srinivasa Sai	design and fabrication of nut removal and tightening by geneva mechanism
	15H71A0368	RAM SAI P		
	15H71A0375	SANNI BABU M		
	15H71A0381	SUMANTH M		
	15H71A0367	RAM MOHAN P		
B4	15H71A0364	NAVEEN P	Md. Ashhar Tufail	design and fabrication of multipurpose farm machine
	15H71A0348	B MANIKANTA SAI A		
	15H71A0350	BHARATH CHANDRA K		
	15H71A0388	MAHE MUNEEER SK		
	16H75A0324	SURESH G		

B5	15H71A0369	SAI A	M. Venkatesh	design and fabrication of multipurpose machine tool based on withworth quick return mechanism
	15H71A0371	SAI SRINIVAS CHOWDARY S		
	15H71A0354	GOPI SAI TEJA B		
	15H71A0353	CHARAN SAI DURGA CHAND M		
	15H71A0363	NAVEEN A		
B6	16H75A0319	MANI KUMAR K	B. Srinivasa Rao	design and fabrication of trolley by four bar chain mechanism
	15H71A0370	SAI KRISHNA P		
	16H75A0323	SAI KUMAR K		
	15H71A0379	SUBHASH S		
	15H71A0389	VIJAY SRAVAN P		
B7	16H75A0317	IMRAN MD	K. Srinivas	design and fabrication of school bag trolley
	15H71A0387	VENKATESH K		
	15H71A0383	VAMSI KRISHNA N		
	15H71A0346	ANIL KUMAR CH		
	15H71A0382	SURYA NAIK R		
B8	16H75A0327	VENKATA TEJA CH	Dr. M Kaladhar	



	16H75A0326	UDAY KUMAR K		
	15H71A0355	HARSHAD SK		
	15H71A0372	SANDEEP A		
	15H71A0359	MANIKANTA SURYA V		double box shifting system
B9	16H75A0318	LOKESH K	Sk. Mahaboob Basha	investigation of hand operated shaping and slotting mechanism
	15H71A0385	VENKATA BHANU PRASAD U		
	15H71A0361	NARENDRA G		
	15H71A0374	SANDEEP M		
	15H71A0376	SARATHCHAND D		
B10	16H75A0315	ANIL R	A. Naga Pavan Kumar	design and fabrication of thermo electric refrigeration system
	15H71A0365	PARDHA SARADHI J		
	15H71A0384	VENKATA AKHIL D		
	15H71A0386	VENKATA PAVAN KALYAN N		
	15H71A0390	VINAY KUMAR P		
B11	16H75A0322	SAI KRISHNA K	Pintu Kumar	design and fabrication of hydraulic scissor lift
	16H75A0325	SWAMY A		
	15H71A0373	SANDEEP G		
	15H71A0357	LEELA SAI KRISHNA RAO J		
C1	15H71A03C4	SRIMAHESH P	Narendra Khatre	design & fabrication of pedal operated hacksa
	16H75A0332	K PAVAN KUMAR K		
	16H75A0329	BALAJI NAYAK B		
	15H71A0394	CHAITANYA M		
C2	15H71A03B8	SAI DATTA P	M.Pradeep	design & fabrication of sand refinement by rotary mechanism
	16H75A0339	SRI SAI CHARAN B		
	14H71A0307	Athaulah Sk		
	15H71A03B5	RAFI MD		
	14H71A0382	Kalyan D		
C3	15H71A03C7	VENKATA NAGA GOPI P	K. Supriya	design & fabrication of mini solar refrigeratio
	16H75A0335	NAVEEN N		
	16H75A0342	VENKATA SAI KUMAR P		
	14H71A0336	Sai Kumar P		
	15H71A03B9	SAI JAGADEESH V		
C4	15H71A03A9	NARESH KUMAR R	B. Ashwini Kumar	design & fabrication of go-cart with special attachments
	15H71A0393	AVINASH G		
	16H75A0340	SUMAN RAJU B		
	15H71A03A4	MAHESH T		
	15H71A03B7	RAMESH P		



C5	15H71A03B0	NAVEEN N	S. Sarath Chandra	design & fabrication of hands free welding
	15H71A03C7	VENKATA NAGA GOPI P		
	16H75A0341	TEJA P		
	15H71A0339	SURESH BABU V		
	15H71A03C6	SURYA PRAKASH CHOWDARY J		
C6	16H75A0336	RADHAKRISHNA D	Upendra Yadav	design & fabrication of mini solar refrigeration
	15H71A03C1	SAI SRINIVASA RAO V		
	16H75A0337	SAI TEJA B		
	15H71A0396	GOPI I		
	15H71A03C3	SRI KRISHNA G		
C7	15H71A03A7	N ARUN KUMAR M	Dr. Y Naresh	design & fabrication of pyramid type solar still
	15H71A03B4	PUNNA REDDY CH		
	15H71A0392	ARAVINDA SWAMY Y		
	15H71A03D0	DURGA RAO		
	15H71A03A2	KRANTHI RANA DEV K		
C8	16H75A0333	LAKSHMI NARAYANA M	Dr. Naveen Sharma	design & fabrication of pyramid type solar stil
	15H71A03C5	SUNI SUMANTH CH		
	15H71A03A6	MOULANA ABDULKALAM AZAD SK		
	15H71A03B6	RAJA SURENDRA V		
	15H71A03B2	PRASANNAKUMAR S		
C9	16H75A0338	SRI NAGA V D SAI KUMAR	D. Divya	design & fabrication of rocker bogie mechanism
	15H71A03A8	NARENDRA GOPI K		
	15H71A03B3	PRAVEEN B		
	15H71A0397	GURU PRASAD M		
	15H71A0398	IBRAHIM MD		
C10	16H75A0334	NADEEM SK	P Bhagat Singh	design & fabrication of non metallic slab coupled with peijo electric material of power generation
	16H75A0330	GNANA DILEEP B		
	16H75A0331	GOPINATH REDDY M		
	15H71A0395	ENOSH KUMAR V		
	15H71A03A1	KOWSHAL K		

Signature of Coordinator

Signature of HoD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**PERFORMANCE ANALYSIS OF SUNFLOWER  
BIO-DIESEL ON CI ENGINE**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

**R. SIVA KRISHNA (16H75A0311)**

**P. PRASAD (16H75A0307)**

**T. GOPI (15H71A0310)**

**P. AJAY VARMA (15H71A0302)**

**MD. RAFI VULLAH (15H71A0328)**

Under the Esteemed Guidance of  
**Mr. A. NAGA PAVAN KUMAR**  
Assistant Professor

Department of Mechanical Engineering

Devineni Veekata Ramana & Dr.Hima Sekhar

**MIC College of Technology**

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2018-2019

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MIC College of Technology



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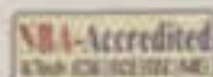
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NAAC A  
With Grade A

**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

Certified that the project entitled "PERFORMANCE ANALYSIS OF SUNFLOWER BIO-DIESEL ON CI ENGINE" which is a bonafide work carried out by R. SIVA KRISHNA, P. PRASAD, T. GOPI, P. AJAY VARMA and MD. RAFI VULLAH bearing register numbers 16H75A0311, 16H75A0307, 15H71A0310, 15H71A0302, and 15H71A0328 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

Mr. A. Naga Pavan Kumar

Asst. Professor



Principal

Head of the Department

Dr. M. Sreenivasa Rao

Professor

Dr. Y. Sudheer Babu

Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
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Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



THE BRIEF STUDY OF OPERATIONS TO REDUCE THE BREAK  
DOWN TIME OF MACHINES IN MAINTENANCE DEPARTMENT IN  
AMARA RAJA MANGAL INDUSTRIES

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

NADEEM SHAIK (16H75A0334)

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Associate Professor

External

Mr. ESWARA PRADEEP (HOD of Maintenance)  
Mr. LOK PAVAN (In charge of Maintenance)

DEPARTMENT OF MECHANICAL ENGINEERING

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AN ISO 9001:2015  
CERTIFIED ENTITY

2016/19/19





Devireni Venkata Ramana & Dr.Hima Sekhar  
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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE**

Certified that the project entitled "**THE BRIEF STUDY OF OPERATIONS TO REDUCE THE BREAK DOWN TIME OF MACHINES IN MAINTENANCE DEPARTMENT IN AMARA RAJA MANGAL INDUSTRIES**" which is a bonafied work carried out by **SK.NADEEM**, bearing register number **16H75A0334**, in partial fulfilment for the award of degree of bachelor technology in **MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year **2018-19**. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

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02/09/19

**Internal Guide**

**Mr.P.Bhagat Singh**

Associate Prof,

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**Head of the Department**

**Dr.M.Sreenivasa Rao**

Professor



*[Handwritten Signature]*  
02/09/19

**External guidance**

**P. Eswara Pradeep (HOD of maintenance)**

**Y. Lok Pavan (In charge of maintenance)**

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**Principal**

**Dr. Y. SUDHEER BABU**  
**Dr.Y. SUDHEER BABU, Ph.D, JTM**

**PRINCIPAL**

Devireni Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**  
**KANCHIKACHERLA, Krishna District**

*[Handwritten Signature]*

**Examiner-1**

*[Handwritten Signature]*

**Examiner-2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**THERMOGRAVIMETRIC ANALYSIS OF CARBON FIBER REINFORCED POLYMER COMPOSITE WITH BASALT POWDER AS FILLER MATERIAL**

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfilment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

**A. SAI-15H71A0369**

**S. SAI SRINIVAS CHOWDARY**

**15H71A0371**

**B. GOPI SAI TEJA**

**15H71A0354**

**M. CHARAN SAI DURGA CHAND**

**15H71A0353**

**A. NAVEEN**

**15H71A0363**

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Under the Esteemed Guidance of  
**Mr. M. VENKATESH**  
Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

Devanuri Venkata Ratnam & Dr. Hima Sekhar

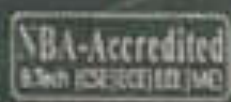
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an ISO 9001:2008  
Certified Institute

2018-2019



Devineni Venkata Ramana & Dr.Hima Sekhar  
**MIC College of Technology**  
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Kanchikacherla - 521105, Krishna Dist, A.P. India.  
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e-mail: devineni@mictech.ac.in, Website: www.mictech.ac.in




## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "THERMO GRAVIMETRIC ANALYSIS OF CARBON FIBER REINFORCED POLYMER COMPOSITE WITH BASALT POWDER AS FILLER MATERIAL" which is a bonafide work carried out by A. SAI, S. SAI SRINIVAS CHOWDARY, B. GOPI SAI TEJA, M. CHARAN SAI DURGA CHAND & A.NAVEEN bearing registration number 15H71A0369, 15H71A0371, 15H71A0354, 15H71A0353 & 15H71A0363 in partial fulfilment for the award of degree of bachelor technology in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Guide

  
Mr. M. VENKATESH

Assistant Professor



Head of the Department

  
Dr. M. SREENIVAS RAO

Professor



Principal

Dr. Y. SUDHEER BABU  
Dr. Y. SUDHEER BABU, Ph.D, IITM  
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Devineni Venkata Ramana & Dr. Himasekhar  
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KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES  
OF ZA27 ALLOY REINFORCED WITH BORON NITRIDE**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

**Y.MANOHAR REDDY(15H71A0321)**

**B.SRINIVAS (15H71A0335)**

**D.V.S.N.MALLIK(15H71A0343)**

**V.RAMA KISHAN (15H71A0337)**

**K.HAITHANYA (15H71A0306)**

*Under the Research Guidance of*

**Mr. R. Ranga Kumar**

**M.Tech(Ph.D)**

**Associate Professor**

**Department of Mechanical Engineering**

**Deemed to be University, Ramdurg & O. G. Srinivas Reddy**

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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certify that the project report entitled "EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES OF ZA27 ALLOY REINFORCED WITH BORON NITRIDE" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, is a bonafide work done by Y. MANOHAR REDDY, B. SRINIVAS, D. V. S. N. MALLIK, V. RAMA KISHAN, N. CHAITHANYA KUMAR bearing Regd.No.15H71A0321, 15H71A0338, 15H71A0343, 15H71A0331, 15H71A0306 under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

Project Guide

Mr. R. Ranjith Kumar



Head of the Department

Dr. M. Sreenivasa Rao

  
Principal

Dr. Y. Sudheer Babu, M.D., JNTU  
**Dr. Y. Sudheer Babu**  
Devireddy Venkata Ramesh & De Hirna Sekhar  
MIC College of Technology  
KANCHIKACHARLA, Krishna District

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



FABRICATION OF Al-5083 COMPOSITE AND STUDY ITS  
MICROSTRUCTURAL AND MECHANICAL PROPERTIES EVOLUTION

A Project Report submitted to  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
in partial fulfillment for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

B. GNANANATHAN	(16H75A0330)
M. GOPINATH REDDY	(16H75A0331)
V. ENOSH KUNAR	(16H75A0395)
K. KOUNNAM	(16H75A03A1)

Under the Guidance of

Mr. P. BHAGAT SURESH KUMAR

Associate Professor

DEPARTMENT OF MECHANICAL ENGINEERING

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2018-2019

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## DEPARTMENT OF MECHANICAL ENGINEERING

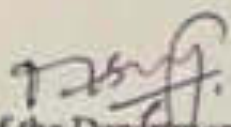
### CERTIFICATE

This is to certify that the project report entitled "FABRICATION OF AI-5083 COMPOSITE AND STUDY ITS MICROSTRUCTURAL AND MECHANICAL PROPERTIES EVOLUTION" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, is a bonafide work done by B.GNANA DILEEP, MGOPINATH REDDY, V.ENOSH KUMAR, K.KOUSHAL bearing Regd. No. 16H75A0330, 16H75A0331, 15H71A0395, 15H71A03A1 under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
Project Guide

Mr. P. Bhagat Singh



  
Head of the Department

Dr. M. Sreenivasa Rao


  
Principal

Dr. Y. Sudheer Babu

**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**STRUCTURAL ANALYSIS OF CONNECTING ROD USING  
ANSYS WITH DIFFERENT MATERIALS**

A Project Report submitted to

Jawaharlal Nehru Technological University Kakinada

In partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

K. PAVAN KUMAR (16H75A0332)  
B. BALAJI NAYAK (16H75A0329)  
M. CHAITANYA (15H71A0394)

Under the Guidance of

Mr. NARENDRA KHATRE, M.Tech

Assistant Professor

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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certify that the project report entitled "STRUCTURAL ANALYSIS OF CONNECTING ROD USING ANSYS WITH DIFFERENT MATERIALS", being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, is a bonafide work done by **K. PAVAN KUMAR, B. BALAJI NAYAK, M. CHAITANYA**, bearing Regd.No.16H75A0332, 16H75A0329, 15H71A0394, under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

Project Guide

Mr. Narendra Khatre



Head of the Department

Dr. M. Sreenivasa Rao

  
Principal

**Dr. Y. Sudheer Babu**  
Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



FABRICATION AND EVALUATION OF THERMAL PROPERTIES OF  
GLASS FIBER REINFORCED POLYSTERE COMPOSITE

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

M. SURENDRA BABU (16H75A0313)

D. ASHOK REDDY (15H71A0304)      M. MALLIKARJUNA RAO (15H71A0319)

D. KUMAR (15H71A0317)      M. ASHOK (15H71A0303)

Under the Supervision of

Dr. B. SURESH W. TEJA  
Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

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14, 15th March 2016  
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With Grade  
An ISO 9001:2008  
Certified Institute

### CERTIFICATE

Certified that the project entitled "FABRICATION AND EVALUATION OF THERMAL PROPERTIES OF GLASS FIBER REINFORCED POLYESTER COMPOSITES" which is a Bonafede work carried out by M. SURENDRA BABU, D. ASHOK REDDY, M. MALLIKARJUNA RAO, D. KUMAR and M. ASHOK bearing register numbers 16H75A0313, 15H71A0304, 15H71A0319, 15H71A0317 & 15H71A0303 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

**Project Guide**

**Head of the Department**

**Mr. B. SANDEEP**

Assistant Professor



**Dr. M. SREENIVASA RAO**

Professor

**Principal**

**Dr. Y. SUDHEER BABU**

Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

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MIC College of Technology  
KANCHIKACHERLA, Krishna District

**Examiner 1**

**Examiner 2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



TESTING AND CHARACTERIZATION OF FRICTION STIR  
WELDED AL6061 ALLOY

A Project Report submitted to

Jawaharlal Nehru Technological University Kakinada

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

AMUDULA SRINIVASU

(15177050378)

Under the supervision of

Dr. J. S. S. S. S. S.

Assistant Professor

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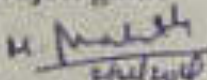


**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

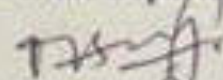
Certified that the project entitled "TESTING AND CHARACTERIZATION OF FRICTION STIR WELDED AL6061 ALLOY" which is a bonafide work carried out by AMUDALA SRINIVASU bearing register number (15H71A0378) in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project guide

  
**Mr. M. PRASANTH**  
Assistant Professor



Head of the Department

  
**Dr. M. SREENIVASA RAO**  
Professor

  
Principal

**Dr. Y. SUDHEER BABU**  
**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**EXPERIMENTAL INVESTIGATION OF MICRO STRUCTURE AND  
MECHANICAL PROPERTIES OF TIG WELDED AA6351 ALLOY**

A project report submitted to  
Jawaharlal Nehru Technological University, Kakinada.  
In partial fulfilment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

MD. IMRAN (16H75A0317)

K.VENKATESH (15H71A0387)

N.VAMSI (15H71A0383)

CH.ANIL KUMAR (15H71A0346)

R.SURYA KAIK (15H71A0382)

Under the Esteemed Guidance of

**Mr. K.SRINIVAS**

M.Tech, (Ph.D)

Associate Professor

**DEPARTMENT OF MECHANICAL ENGINEERING**

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WIB-Grade A

As 2017-2019  
Valid till 2020

## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certified that the project report entitled "EXPERIMENTAL INVESTIGATION OF MICRO STURCTURE AND MECHANICAL PROPERTIES OF TIG WELDED AA6351 ALLOY" being submitted for the partial fulfilment of the requirements for the degree in Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, is a bonafide work done by MD.IMRAN, K.VENKATESH, N.VAMSI, CHANIL KUMAR, RSURYA NAIK bearing Regd.No. 16H75A0317, 15H71A0387, 15H71A0383, 15H71A0346, 15H71A0382 under my guidance during the academic year 2018-19 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

Project Guide

Mr. K.Srinivas

Associate Professor



Principal

Head of the Department

Dr. M.Sreenivasa Rao

Professor

Examiner 1

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Dr.Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

Devinori Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**EVALUATING MECHANICAL PROPERTIES OF  
LUFFA FIBER REINFORCED POLYESTER  
COMPOSITE**

A Project Report Submitted to the  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA

in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

**CH. RAJESH [15H71A0330]**

**D.V.S. JAGADEESH KUMAR [15H71A0341] S. ABHILASH [16H75A0301]**

**B. SUBBARAO [16H75A0312] B.V.V.N. RAJESH [15H71A0342]**

*Under the Esteemed Guidance of*

**Ms N. SIVA NAGAMANI (Assistant professor)**

&

**Dr. G. RAJESH (Professor)**

**Department of Mechanical Engineering**

Devineni Venkata Ramana & Dr.Hima Sekher

**MIC College of Technology**

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B.A.B. FOR UOES (MCI)

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2018-2019





Devineni Venkata Ramana & Dr.Hima Sekhar  
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## DEPARTMENT OF MECHANICAL ENGINEERING CERTIFICATE

Certified that the project entitled "EVALUATING MECHANICAL PROPERTIES OF LUFFA FIBER REINFORCED POLYESTER COMPOSITE" which is a bonafide work carried out by CH. RAJESH, D.V.S.JAGADEESH KUMAR, S. ABHILASH, B.SUBBARAO and B.V.V.N. RAJESH bearing register numbers 15H71A0330, 15H71A0341, 16H75A0301, 16H75A0312 and 15H71A0342 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

Ms. N. Siva Nagamani

Assistant Professor



Head of the Department

Dr. M. Sreenivas Rao

Professor

Principal

Dr. Y. Sudheer Babu

Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

Examiner 2

  
Examiner 1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**EFFECTS OF BASALT POWDER ON THERMAL PROPERTIES OF  
GLASS FIBRE/EPOXY COMPOSITES**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

A. KAVYA (16H75A0305)

SK. NAWAZ SHARIFF (15H71A0324)

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Under the Esteemed Guidance of  
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NAACA  
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As per 2019-2020  
7th Edition

2018-2019



Devineni Venkata Ramana & Dr.Hima Sekhar  
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2018-2019



**CERTIFICATE**

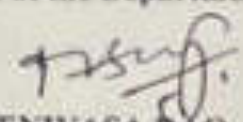
Certified that the project entitled "EFFECTS OF BASALT POWDER ON THERMAL PROPERTIES OF GLASS FIBRE/EPOXY COMPOSITES" which is a bonafide work carried out by **A. KAVYA, SK. NAWAZ SHARIFF, R. KALYAN, M. SAIKUMAR, G. HEMANTH** bearing register numbers **16H75A0305, 15H71A0324, 15H71A0316, 15H71A0334, 15H71A0313** in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

**Project Guides**

  
**Mr. S. MAHESH BABU** 14/12/19  
 Assistant Professor



**Head of the Department**

  
**Dr. M. SREENIVASA RAO**  
 Professor

  
**Principal**

**Dr. Y. SUDHEER BABU**  
 Dr. Y. SUDHEER BABU, Ph.D, IITM  
 PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
 MIC College of Technology  
 KANCHIKACHERLA, Krishna District

  
**Examiner 1**

**Examiner 2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



COMPARATIVE STUDY ON MICROSTRUCTURE AND  
MECHANICAL PROPERTIES OF TIG AND FSW  
PROCESSED AL-5083 ALLOY

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In the partial fulfillment for the Award of the degree of  
BACHELOR OF TECHNOLOGY

IN  
MECHANICAL ENGINEERING

By

K. BALANJIREDDY (15H17A0349)

C. JAGADESH KUNIAH (15H17A0350)      S. ABINAVINDRANATH (15H17A0347)

Under the Esteemed Guidance of  
MR. M. PRADEEP  
Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

Department Venkata Ramana & Dr. H. V. Sekhar

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**NBA-Accredited**  
K No. 125/12/2012/10/1

Accredited by  
**NAAC A**  
With Grade

As per NAAC 2018  
Certified Institute

## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "COMPARATIVE STUDY ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF TIG AND FSW PROCESSED AL-5083 ALLOY" which is a bonafide work carried out K.BALANJI REDDY, G.JAGADESH KUMAR and S.SARAVIND BABU bearing register numbers 15H71A0349, 15H71A0356 and 15H71A0347 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

**MR. M. PRASHANTH**

Assistant Professor



Head of the Department

**DR. M. SREENIVASA RAO**

Professor

  
Principal

**Dr. Y. Suresh Babu, Ph.D. IITM**  
PRINCIPAL

Devireni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**EVALUATING FLEXURAL AND IMPACT PROPERTIES OF PHRAGMITES  
KARKA FIBER REINFORCED POLYESTER COMPOSITES**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfilment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

**M. GURU PRASAD (15H71A0311)**

**D. RUDRA KUMAR (15H71A0333)**

**K. PREETHI REDDY (15H71A0327)**

**SK. HAJI BASHA (15H71A0305)**

**P. GOPI (15H71A0309)**

Under the Esteemed Guidance of

**Dr. G. RAJESH, Professor**

**DEPARTMENT OF MECHANICAL ENGINEERING**

Devineeni Venkata Ramana & Dr.Hima Sekhar

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2017-2018



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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

Certified that the project entitled "EVALUATING FLEXURAL AND IMPACT PROPERTIES OF PHARGMITES KARKA FIBER REINFORCED POLYESTER COMPOSITE" which is a bonafide work carried out by M. GURU PRASAD, D. RUDRA KUMAR, K. PREETHI REDDY, SK. BAJI BASHA and P. GOPI bearing register numbers 15H71A0311, 15H71A0333, 15H71A0327, 15H71A0305 and 15H71A0309 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

Dr. G. Rajesh

Professor



Principal

Head of the Department

Dr. M. Sreenivasa Rao

Professor

Examiner

Dr. Y. Sudheer Babu  
Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHI (II) LA, Krishna District

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**PERFORMANCE ANALYSIS OF BIODIESEL ON  
FOUR STROKE CI ENGINE BY USING WASTE  
COOKING OIL**

A project report submitted to Jawaharlal Nehru Technological University  
Kakinada in partial fulfillment for the award of the degree

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

**K. MANIKUMAR  
(16H75A0319)**

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Department: Vaidya Ramana & Home Science  
MTC College of Technology



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**P. SAI KRISHNA  
(15H71A0370)**

**S. SUBASH**

**(15H71A0379)**

**K. SAI KUMAR  
(16H71A0323)**

**P. VIJAYSRAVAN**

**(15H71A0389)**

Under the Supervised Guidance of  
**Mr. S. SUDHAKAR VASA RAO** M.Tech  
Assistant Professor

Department of Mechanical Engineering  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certify that the project report entitled "PERFORMANCE ANALYSIS OF BIODIESEL ON FOUR STROKE CI ENGINE BY USING WASTE COOKING OIL" being submitted for the partial fulfillment of the requirements for the award of degree in BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING from Jawaharlal Nehru Technological University Kakinada is a bonafide work done by K. MANI KUMAR, P. SAI KRISHNA, K. SAI KUMAR, S.SUBASH P.VIJAY SRAVAN bearing register numbers 16H75A0319, 15H71A0370, 16H75A0323, 15H71A0379, 15H71A0389 during the year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to another institution or university for the award of any degree.

PROJECT GUIDE

B. SREENIVASA RAO



HEAD OF THE DEPARTMENT

Dr. M. SREENIVASA RAO

  
PRINCIPAL

Dr. Y. SUDHEER BABU

Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devireni Venkata Ramana & Dr. Hirna Sekhar  
MIC College of Technology  
KANCHIACHERLA, Krishna District

  
EXAMINER 1  
EXAMINER 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



OPTIMIZATION OF MACHNING PARAMETERS IN MACHNING OF  
HARDENED EN24 STEEL

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

P.NAVEEN (15H71A0364)

A.B.MANIKANTA SAI (15H71A0348) P.VIJAY (15H71A0368)

K.BHARATH CHANDRA (15H71A0350) G.SURESH (16H75A0324)

Under the Esteemed Guidance of

Dr.M.KALADHAR B.E.,M Tech., Ph D.,MIE  
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2018-2019



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

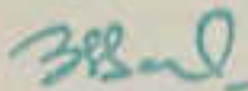
Certified that the project entitled "OPTIMIZATION OF MACHNING PARAMETERS IN MACHNING OF HARDENED EN24 STEEL" which is a bonafide work carried out by P.NAVEEN, A.B.MANIKANTA SAL, K.BHARATH CHANDRA, P.VIJAY and G.SURESH bearing register numbers 15H71A0364, 15H71A0348, 15H71A0350, 15H71A0388 and 16H75A0324 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

  
Project guide

Dr. M. Kaladhar

Professor






Principal

Dr. Y. Sudheer Babu

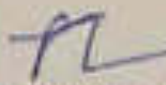
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KANCHIKACHE (II) A, Krishna Dist.

  
Head of the Department

Dr. M. Sreenivasa Rao

Professor

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**INVESTIGATION OF THE PERFORMANCE OF FOUR STROKE  
SINGLE CYLINDER DIESEL ENGINE WITH THE BIODIESEL  
DERIVED FROM NEEM OIL**

Jawaharlal Nehru Technological University Kakinada

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

BY

**K. LOKESH**

(16H75A0318)

**U. VENKATA BHANU PRASAD**

(15H71A0385)

**M.SANDEEP**

(15H71A0374)

**G.NARENDRA**

(15H71A0361)

**D. SARATH CHAND**

(15H71A0376)

UNDER THE ESTEEMED GUIDANCE OF

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Assistant professor

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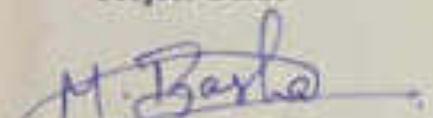


## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "INVESTIGATION OF THE PERFORMANCE OF FOUR STROKE SINGLE CYLINDER DIESEL ENGINE WITH THE BIODIESEL DERIVED FROM NEEM OIL" which is a bonafide work carried out by **K. LOKESH, U.VENKATA BHANU PRASAD, G.NARENDRA, M.SANDEEP, D.SHARTH CHAND** bearing register numbers 16H75A0318, 15H71A0385, 15H71A0361, 15H71A0374, 15H71A0376 in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

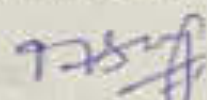
**Project Guide**

  
**Mr. SK. MAHABOOB BASHA**

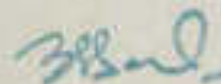
**Asst. PROFESSOR**



**Head of The Department**

  
**Dr. M. SREENIVASA RAO**

**PROFESSOR**



**PRINCIPAL**

**Dr. Y. SUDHAKAR BABU, IITM**  
**Dr. Y. SUDHAKAR BABU**  
**PRINCIPAL**

Devireni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
**KANCHIKACHERLA, Krishna District**

  
**Examiner 1**

  
**Examiner 2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



OPTIMIZATION OF MACHNING PARAMETERS IN MACHNING OF  
HARD CHROME PLATED AISI 1045 STEEL

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

CH.VENKATA TEJA (16H75A0327)

K.UDAY KUMAR

(16H75A0326)

SK.HARSHAD

(15H71A0355)

A.SANDEEP

(15H71A0372)

V.MANIKHANTA SURYA

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Under the Esteemed Guidance of

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Professor

DEPARTMENT OF MECHANICAL ENGINEERING

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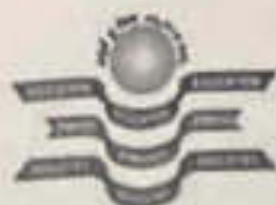
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Accredited by  
**NAAC A**  
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As ISO 9001:2008  
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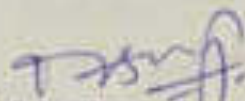
## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "OPTIMIZATION OF MACHINING PARAMETERS IN MACHINING OF HARD CHROME PLATED AISI 1045 STEEL" which is a bonafied work carried out by CH.VENKATA TEJA, KUDAY KUMAR, SK.HARSHAD, A.SANDEEP, VMANIKHANTA SURYA bearing register numbers 16H75A0327, 16H75A0326, 15H71A0355, 15H71A0372, 15H71A0359 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the academic year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

  
Project Guide  
Dr.M.Kaladhar




  
Head of the Department  
Dr. M. Sreenivasa Rao

  
Principal  
Dr. Y.Sudheer Babu

**Dr.Y. SUDHEER BABU, Ph.D,IITM**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Hirasekhar  
**MIC College of Technology**  
\* ANCHIKACHERLA, Krishna District \*

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**PERFORMANCE ANALYSIS OF DIESEL ENGINE  
WITH LEMON GRASS AND JATROPHA  
BIO-DIESEL AS A FUEL**

A project report submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By/

**M. RAVINDRA BABU  
(15H75A0308)**

**D. VENKATA DURGA PRASAD  
(15H75A0314)**

**T. HEMANTH SANKUMAR  
(15H71A0314)**

**M. PAVAN  
(15H71A0326)**

**CH. SAI PHANEENDRA  
(15H71A0335)**

Under the Esteemed Guidance of  
**Mr. CH. ANIL KUMAR**  
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Department of Mechanical Engineering

Devineni Venkata Ramana & Dr. Hima Sekhar

**MIC College of Technology**



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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certify that the project entitled "PERFORMANCE ANALYSIS OF DIESEL ENGINE WITH LEMON GRASS AND JATROPHA BIO-DIESEL AS A FUEL" which is bonafide work carried out by **M. RAVINDRABABU, D.VENKATA DURGA PRASAD, T.HEMANTH SAI KUMAR, N.PAVAN, CH. Sai PHANEENDRA** bearing register 16H75A0308, 16H75A0314, 15H71A0314, 15H71A0326, 15H71A0335. Submitted to Jawaharlal Nehru Technological University Kakinada, during the year 2018-2019. It is certified that all suggestions indicated for internal assessment have been incorporated in the report. Project report has been approved as it satisfies the academic requirements in respect project work presented.

Project Guide

Mr. CH. Anil Kumar

Asst. professor



Principal

Head of the Department

Dr. M. Sreenivasa Rao

professor

Examiner -I

Dr. Y. Sudheer Babu

Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hirnasakhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

Examiner -II

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**OPTIMIZATION OF MILLING PROCESS IN MACHINING OF  
MONEL-400 SUPER ALLOY**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

V. RAMESWAR (15H71A0332)

M. GOPI AYYAPPA (16H75A0302)

T. LOKESH (16H75A0310)

V. LIKHITH BALARAM (15H71A0318)

B. NIKHIL (16H75A0306)

Under the Esteemed Guidance of  
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2018-2019



up to 2019-2020  
Accredited Institution



Devineni Venkata Ramana & Dr. Himasekhar  
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## DEPARTMENT OF MECHANICAL ENGINEERING CERTIFICATE

Certified that the project entitled "OPTIMIZATION OF MILLING PROCESS IN MACHINING OF MONEL-400 SUPER ALLOY" which is a bonafide work carried out by V. RAMESWAR, M. GOPI AYYAPPA, T. LOKESH, V. LIKHITH BALARAM and B. NIKHIL bearing register numbers 15H71A0332, 16H75A0302, 16H75A0310, 15H71A0318 and 16H75A0306 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.



Project Guide

Dr. M. Sreenivasa Rao  
Professor

Head of the Department

Dr. M. Sreenivasa Rao  
Professor

Principal

Examiner 1

Dr. Y. Sudheer Babu

Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
ANCHIKACHERLA, Krishna District

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



COMPUTATIONAL ANALYSIS OF FLOW THROUGH DUCTS WITH  
VARIABLE GEOMETRIES

A Project Report submitted to  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

PATTAPU SAI DATTA  
(15H71A03B8)

RHOGIREDDY SRI SAI CHARAN  
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SHEIK ATHAULLAH  
(14H71A0307)

MOHAMMED RAFI  
(15H71A03B5)

Under the Esteemed Guidance of  
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Deviseni Venkata Ramana & Dr. Uma Sekhar

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A

16/15/1 10/11/2017  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "COMPUTATIONAL ANALYSIS OF FLOW THROUGH DUCTS WITH VARIABLE GEOMETRIES" which is a bonafide work carried out by PATTAPU SAI DATTA, BHOGIREDDY SRI SAI CHARAN, SHAIK ATHAULLAH and MOHAMMED RAFI bearing register numbers 15H71A03B8, 16H75A0339, 14H71A0307 and 15H71A03B5 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

Mr. CH. S. R. T. P. SAI

ASSISTANT PROFESSOR



Head of The Department

Dr. M. SREENTVASA RAO

PROFESSOR

PRINCIPAL

Dr. Y. SUDHEER BABU

Dr. Y. SUDHEER BABU, Ph.D/JITM

PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



EVALUATING THERMAL CONDUCTIVITY OF  
AGAVE AMERICANA FIBRE REINFORCED POLYESTER  
COMPOSITE FILLED WITH CARBON POWDER

A project report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

P. VENKATA NAGA GOPI (15H71A03C7)

N. NAVEEN (16H75A0335) P. VENKATA SAI KUMAR (16H75A0342)

P. SAI KUMAR (14H71A0336) V. SAI JAGADEESH (15H71A03B9)

Under the Esteemed Guidance of

Mrs. K. SUPRIYA  
Assistant Professor

Dr. G. RAJESH  
Professor

Department of Mechanical Engineering  
Devineni Venkata Raghava & Dr. Hima Sekhar



MIC College of Technology

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Devineni Venkata Ramana & Dr. Himra Sekhar  
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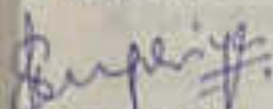
**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

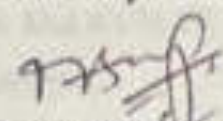
This is to certify that the project report entitled "EVALUATING THERMAL CONDUCTIVITY OF AGAVE AMERICANA FIBRE REINFORCED POLYESTER COMPOSITE FILLED WITH CARBON POWDER" being submitted for the partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, Kakinada, is a bonafide work done by P.VENKATA NAGA GOPI, N.NAVEEN, P.VENKATA SAI KUMAR, P.SAI KUMAR, V.SAI JAGADEESH bearing Regd No 15H71A03C7, 16H75A0335, 16H75A0342, 14H71A0336, 15H71A03B9 under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

**Project Guides**

**Head of the Department**

  
Mrs. K. SUPRIYA  
Assistant Professor



  
Dr. M. SREENIVASA RAO,  
Professor

  
Dr. G. RAJESH  
Professor



**Principal**  
Dr. Y. SUDHEER BABU  
Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

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Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**PERFORMANCE EVALUATION OF PYRAMID TYPE SOLAR STILL  
WITH CLAY POTS**

A Project Report submitted to  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

M.N. ARUN KUMAR (15H71A03A7)

CH. PUNNA REDDY (15H71A03B4)

Y. ARAVINDA SWAMY (15H71A0392)

K. DURGA RAO (15H71A03D0)

Under the Esteemed Guidance of

**Dr. V. NARESH**  
Assistant Professor

Department of Mechanical Engineering  
Devineni Venkata Ramana & Dr. Himra Sekhar

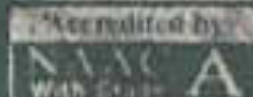
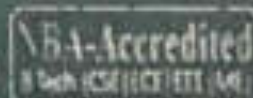
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AN ISO 9001:2008  
Certified Institute

2018-2019





Devineni Venkata Ramana & Dr. Hima Sekhar  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "PERFORMANCE EVALUATION OF PYRAMID TYPE SOLAR STILL WITH CLAY POTS" which is a bonafide work carried out by **M.N. ARUN KUMAR, CH. PUNNA REDDY, Y. ARAVINDA SWAMY, and K. DURGA RAO** bearing register numbers **15H71A03A7, 15H71A03B4, 15H71A0392, and 15H71A03D0** in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide(s)



*Y. Naresh*  
09/04/19  
**Dr. Y. Naresh**  
Associate Professor

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*M. Sreenivasa Rao*  
**Dr. M. Sreenivasa Rao**  
Professor

*Sudheer Babu*

Principal

**Dr. Y. Sudheer Babu**  
**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
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Devineni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

*[Signature]*  
Examiner 1

*[Signature]*  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**REDUCING THE IDLE TIME OF BATTERY STRIP PASTING  
LINE AT AMARA RAJA BATTERIES LIMITED**

A Project Report Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

**P. SRIMAHESH (151171A004)**

Central Library

Devisetti Venkata Ramana & Hima Sekhar  
MIC College of Technology



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Under the Internal Guidance of  
**Mr. Narendra Khatre**  
Assistant Professor

Under the External Guidance of  
**Mr. P. Amarnath**  
Assistant Manager  
Central Maintenance  
ABD-2  
Amara Raja Batteries Ltd.

DEPARTMENT OF MECHANICAL ENGINEERING

Devisetti Venkata Ramana & Dr. Hima Sekhar

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**NBA-Accredited**  
B.A.B. (2015-2016)

**ACCREDITED BY**  
**NAAC**  
With Grade **A**

As per 1001/2008/2008  
Certified Institute

2018-2019



## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled **"REDUCING THE IDLE TIME OF BATTERY STRIP PASTING LINE AT AMARA RAJA BATTERIES LIMITED"** which is a bonafide work carried out by **P. SRIMAHESH** bearing register number **15H71A03C4** in partial fulfilment for the award of degree of bachelor of technology in **MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year **2018-19**. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Internal Guide

**Mr. Narendra Khatre**  
Asst. Professor



Head of the Department

**Dr. M. Sreenivasa Rao**  
Professor

External Guide

**Mr. P. Amarnath**  
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Principal

**Dr. Y. Sudheer Babu**, Ph.D., IITM  
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Professor  
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KANCHIKACHERLA, Krishna District

Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



EXPERIMENTAL INVESTIGATION OF PYRAMID TYPE SOLAR  
CELL WITH POROUS MATERIAL.

A Project Report submitted to  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
in partial fulfillment for the award of the degree of  
BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

M.L. NARAYANA (16H75A0333)

CH. SUNI SUMAN (15H71A0305)

S.K. M.A.K. AZAD (15H71A03A9)

V. RAJA SURENDRA (15H71A03314)

S. PRASANNA KUMAR (15H71A03B7)

Under the Esteemed Guidance of

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Assistant Professor

Department of Mechanical Engineering

Deviana Venkata Ramana & Dr. Hina S. Khar

MIC College of Technology

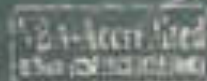
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2018-2019





Devineni Venkata Ramana & Dr.Hima Sekhar  
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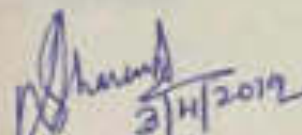
## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

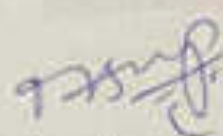
Certified that the project entitled "EXPERIMENTAL INVESTIGATION OF PYRAMID TYPE SOLAR STILL WITH POROUS MATERIAL" which is a bonafide work carried out by M.L. NARAYANA, CH. SUNI SUMANTH, SK. M.A.K. AZAD, V. RAJA SURENDRA, and S. PRASANNA KUMAR bearing register numbers 16H75A0333, 15H71A03C5, 15H71A03A6, 15H71A03B6, and 15H71A03B2 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide(s)

Head of the Department

  
Dr. Naveen Sharma  
Associate Professor



  
Dr. M. Sreenivasa Rao  
Professor

  
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Dr. Y. Sudheer Babu  
Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2



EXTRACTION OF AVAILABLE THERMAL ENERGY AND  
GENERATING ELECTRIC POWER FROM EXHAUST GAS

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfilment for the Award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

K. SAI KRISHNA - 16H75A0322

A. SWAMY - 16H75A0325

G. SANDEEP - 15H71A0373

J. LEELA SAI KRISHNA - 15H71A0357

Central Library

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Under the Guidance of  
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Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

Certified that the project entitled "EXTRACTION OF AVAILABLE THERMAL ENERGY AND GENERATING ELECTRIC POWER FROM EXHAUST GAS" which is a bonafide work carried out by **K. SAI KRISHNA, A. SWAMY, G. SANDEEP & J. LEELA SAI KRISHNA** bearing registration number 16H75A0322, 16H75A0325, 15H71A0373 & 15H71A0357 in partial fulfilment for the award of degree of bachelor technology in **MECHANICAL ENGINEERING** by Jawaharlal Nehru Technological University Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Guide

*Pentu*

**Mr. P.K. VISHWAKARMA**

Assistant professor



Head of the Department

*[Signature]*

**Dr. M. SREENIVASA RAO**

Professor

*[Signature]*

Principal

**DR. SUDHISHER BABU** (D. Litt.)  
PRINCIPAL

Deviveni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

*[Signature]*  
Examiner 1

*[Signature]*  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



PERFORMANCE ANALYSIS OF A SALT GRADIENT SOLAR POND

A Project Report submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

In partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

BY

R. NARESH KUMAR (15H71A0300)

G. AVINASH (15H71A0393)

B. SIVAN RAJU (16H75A0346)

T. MAHESH (15H71A03A4)

P. RANESH (15H71A03B7)

Under the Esteemed Guidance of

Mr. B. ASHWINI KUMAR  
Assistant Professor

Dr. NAVEEN SHARMA  
Associate Professor

Department of Mechanical Engineering

Gov. Jeeva Yenkata Ramana & Dr. Hima Seelam

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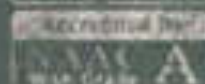
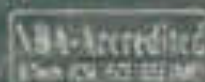
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2018-2019







Deviseni Venkata Ramana & Dr.Hima Sekhar  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "PERFORMANCE ANALYSIS OF A SALT GRADIENT SOLAR POND" which is a bonafide work carried out by **R. NARESH KUMAR, G. AVINASH, B. SUMAN RAJU, T. MAHESH,** and **P. RAMESH** bearing register numbers **15H71A03A9, 15H71A0393, 16H75A0340, 15H71A03A4,** and **15H71A03B7** in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year **2018-2019**. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide(s)

Head of the Department

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Associate Professor

**Mr. B. Ashwini Kumar**  
Assistant Professor

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Principal

**Dr. Y. Sudheer Babu**  
**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
PRINCIPAL

Deviseni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

  
Examiner 1  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



EXPERIMENTAL INVESTIGATION OF THERMAL  
CONDUCTIVITY AND RHEOLOGICAL PROPERTIES OF Cu-Zn  
HYBRID NANO PARTICLES IN ETHYLENE GLYCOL

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

BY

R. ANIL (16H75A0316)

J. PARDHASARADHI (16H75A0317)

J. PARDHASARADHI (16H75A0318)

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Under the guidance and supervision of

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Assistant Professor

Department of Mechanical Engineering

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MIC College of Technology

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2016-2018





Devineni Venkata Ramana & Dr.Hima Sekhar  
**MIC College of Technology**

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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE**

Certified that the project entitled "EXPERIMENTAL INVESTIGATION OF THERMAL CONDUCTIVITY AND RHEOLOGICAL PROPERTIES OF Cu-Zn HYBRID NANO PARTICLES IN ETHYLENE GLYCOL" which is a bonafide work carried out by **R. ANIL, J. PARDHA SARADHI, D. VENKATA AKHIL, N. VENKATA PAVAN KALYAN** bearing register numbers 16H75A0315, 15H71A0365, 15H71A0384, 15H71A0386 in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

**Mr. A. Naga Pavan Kumar**  
Asst. Professor



Head of the Department

**Dr. M. Sreenivasa Rao**  
Professor

Principal

**Dr. Y. Sudheer Babu**

**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

**Examiner 1**

**Examiner 2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



STUDY AND MONITORING OF PLATE PREPARATION SECTION IN  
INDUSTRIAL BATTERY DIVISION IN AMARA RAJA BATTERIES LIMITED

Submitted to  
Jawaharlal Nehru Technological University, Kakinada,  
In partial fulfillment of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

**B. SRIKANTH (15H71A0377)**

Central Library

Dr. J. Venkateswara Reddy & Miss. Sushar  
MIC College of Technology



PR02175

Under the Guidance of  
**Mr. PRASHANTH M**  
Assistant Professor, MIC  
Internal guide

Under the Guidance of  
**Mr. POORNA CHANDRA E**  
External guide  
Assistant Manager, PLP In charge,  
Industrial Battery Division,  
AMARA RAJA BATTERIES Ltd.

DEPARTMENT OF MECHANICAL ENGINEERING

Devisent Venkateswaramma & Dr. Hima Sekhar

**MIC College of Technology**

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As per ISO 9001:2008  
Credited Institute

2018-2019



Devireni Venkata Ramana & Dr. Himra Sekhar  
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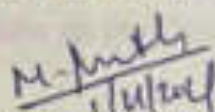


**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

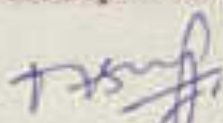
Certified that the project entitled **"STUDY AND MONITORING OF PLATE PREPARATION SECTION IN INDUSTRIAL BATTERY DIVISION IN AMARA RAJA BATTERIES LIMITED"** which is a bonafide work carried out by **B. SRIKANTH** bearing register number **15H71A0377** in partial fulfilment for the award of degree of bachelor technology in **MECHANICAL ENGINEERING** by Jawaharlal Nehru Technological University, Kakinada during the year 2018-19. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

**Internal Guide**

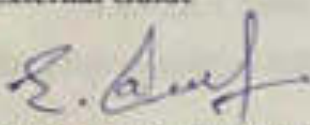
  
**Mr. Prashanth M**  
Asst Professor



**Head of the Department**

  
**Dr. Sreenivasa Rao M**  
Professor

**External Guide**

  
**Mr. Poorna Chandra E**  
Asst Manager, PLP,  
IBD, MVRLA Plant,  
AMARA RAJA BATTARIES Ltd

  
**Principal**

**Dr. Sudheer Babu Y**  
**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
PROFESSOR  
PRINCIPAL  
Devireni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
**Examiner 1**

  
**Examiner 2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**DROP TEST SIMULATION ON PEN DRIVE BY  
USING ANSYS**

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfilment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

By

V. SURESH BABU (15H71A0339)

K. SRIKANTH (15H71A0337)

V. HARI VAMSI (15H71A0312)

CH. JAGADEESH (16H75A0304)

M. MOHAN (15H71A03 )

Under the Esteemed Guidance of  
**Mr. K. RAVIKANTH**  
Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

Devanni Venkata Ramana & Dr. Anil Sekhar

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As per ISO 9001:2008  
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2018-2019



Devineni Venkata Ramana & Dr. Himasekhar  
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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE**

Certified that the project entitled "**DROP TEST SIMULATION ON PEN DRIVE BY USING ANSYS**" which is a bonafide work carried out by **V.SURESH BABU, K.SRIKANTH, Y. HARI VAMSI, CH. JAGADEESH, and M. MOHAN** bearing register numbers **15H71A0339, 15H71A0337, 15H71A0312, 16H75A0304 and 15H1A0322** in partial fulfillment for the award of degree of **BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING** by **Jawaharlal Nehru Technological University, Kakinada** during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.



Project guide

Mr. K. Ravikanth

Asst. Professor

Head of the Department

Dr. M. Sreenivasa Rao

Professor

Principal

Dr. Y. Sudheer Babu

Dr. Y. SUDHEER BABU, Ph. D., IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



EVALUATING THERMAL CONDUCTIVITY OF PHARGMITES  
KARKA FIBER REINFORCED POLYESTER COMPOSITE

A project report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

P. SRI NAGA V D SAI KUMAR (16H75A0338)

K. NARENDRA GOPI (15H71A03A8) B. PRAVEEN (15H71A03B3)

M. GURU PRASAD (15H71A0397) MD. IBRAHIM (15H71A0398)

Under the Esteemed Guidance of  
Ms. D. DIVYA, Assistant Professor  
&  
Dr. G. RAJESH, Professor

Department Of Mechanical Engineering  
Devineni Venkata Ramana & Dr. Hitesh Reddy



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2015-2019





Devineni Venkata Ramana & Dr. Himu Sekhar  
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e-mail: dr.himusekhar@miccol.ac.in, Website: www.miccol.ac.in



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

This is to certify that the project entitled "EVALUATING THERMAL CONDUCTIVITY OF PHARGMITES KARKA FIBER REINFORCED POLYESTER COMPOSITE" which is a bonafide work carried out P. SRI NAGA V D SAI KUMAR, K. NARENDRA GOPI, B. PRAVEEN, M. GURU PRASAD and MD. IBRAHIM bearing register numbers 16H75A0338, 15H71A03A8, 15H71A03B3, 15H71A0397 and 15H71A0398 in partial fulfilment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guide

*D. Divya*  
Ms. D. Divya  
&  
Dr. G. Rajesh *Dr. G. Rajesh*



Head of the Department

*Dr. M. Sreenivasa Rao*  
Dr. M. Sreenivasa Rao

*Principal*

Principal

*Examiner 1*  
Examiner 1

Dr. V. Sudheer Babu, Ph.D., IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Himusekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

*Examiner 2*  
Examiner 2

(ii)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**INFLUENCE OF BASALT POWDER ON THERMAL STABILITY  
OF CARBON FIBER POLYESTER COMPOSITES**

A Project Report submitted to  
Jawaharlal Nehru Technological University, Kakinada  
in partial fulfillment for the Award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

BY

**SHAIK HUZefa (15H71A0315)**

**MR. SAIFULLA PASHA (16H75A0309)**

**K. DEEPU (15H71A0307)**

**K. OM SAI PHANINDRA (15H71A0325)**

**M. TARUN KUMAR (15H71A0340)**

Under the Guidance of

**Mr. N. YASU, Assistant Professor**

&

**Mr. S. MAHESH BABU, Assistant Professor**

Central Library

Department of Mechanical Engineering & Anna Sakthar  
MIC College of Technology



PR02184

DEPARTMENT OF MECHANICAL ENGINEERING

Divisional Venkata Ramana & Dr. Himma Sekhar

**MIC College of Technology**

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NBA Accredited  
for programs

NAAC  
3rd Level 'A'

AP-160/2012  
Central Board

2015-2019



Devnani Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**

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## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "INFLUENCE OF BASALT POWDER ON THERMAL STABILITY OF CARBON FIBER POLYESTER COMPOSITES" which is a bonafide work carried out by SK. HUJEFA, MD. SAIFULLA PASHA, K. DEEPU, K. OM SAI PHANINDRA and M. TARUN KUMAR bearing register numbers 15H71A0315, 16H75A0309, 15H71A0307, 15H71A0325, 15H71A0340 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

Project Guides

Head of the Department

*Nalluri Vasu*  
Mr. N.VASU 1/4/19

Assistant Professor



*Dr. M. Sreenivasa Rao*

Dr. M. Sreenivasa Rao  
Professor

*Mr. S. Mahesh Babu*  
Mr. S. MAHESH BABU

Assistant professor

*Dr. Y. Sudheer Babu*

Dr. Y. ~~Sudheer~~ **Principal** BABU, Ph.D., IITM

Devnani Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

*Examiner 1*

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES  
OF HYBRID METAL MATRIX COMPOSITE PREPARED BY STIR  
CASTING

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

Submitted By  
D.RADHA KRISHNA (16H75A0336)  
V.SAI SRINIVASA RAO (15H71A03C1) B. SAI TEJA (16H75A0337)  
I.GOPI (15H71A0396) G.SRI KRISHNA (14H71A03C3)

Under the Esteemed Guidance of

Mr. R. Ranjith Kumar, M.Tech (Ph.D)  
Associate Professor



Department Of Mechanical Engineering  
Devineni Venkata Ramana & Dr. Himax Sekhar



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2018-2019

NBA-Accredited  
& No. 100 FICE (F1) (14)

Accredited by  
NAAC  
With Grade  
A

As per NAAC 2013  
Criteria



## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

This is to certify that the project report entitled "EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES OF HYBRID METAL MATRIX COMPOSITE PREPARED BY STIR CASTING" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada, is a bonafide work done by D.RADHA KRISHNA, V.SAI SRINIVASA RAO, B.SAI TEJA, LGOPI, G.SRI KRISHNA bearing Regd.No.16H75A0336,15H71A03C1,16H75A0337, 15H71A0396, 15H71A03C3 under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

Project Guide

Mr. R. Ranjith Kumar



Head of the Department

Dr. M. Sreenivasa Rao

Principal

Dr. Y. Sudheer Babu

**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

  
Examiner 1  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**PRESSURE LOSS ANALYSIS OF FLUID FLOW IN AIR  
DUCTS USING ANSYS**

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In the partial fulfillment for the Award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

**Y. RAVI CHANDRA (16H75A0320)**

**SK.M. MUNJER (15H71A0358)**

**P. ASHOK (16H75A0316)**

**P.SAI SURESH KUMAR (16H75A0321)**

**CHE. SUJITH KUMAR (15H71A0300)**

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MIC College of Technology



PR02174

Under the Esteemed Guidance of

**Mr. CHE. S. R. T. P. SAI**

Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

Devilineni Yeekata Ramana & Sons, Hyderabad

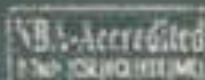
**MIC College of Technology**

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Valid till 30/03/2018

Certified Institute

2018-2019



Devineni Venkata Ramana & Dr. Himu Sekhar  
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**NBA-Accredited**  
EQUIS ACCREDITED

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With Grade **A**

As per 1997, 2003  
Certified Institute

## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "PRESSURE LOSS ANALYSIS OF FLUID FLOW IN AIR DUCTS USING ANSYS" which is a bonafide work carried out by Y. RAVI CHANDRA, SK.M. MUNEER, P. ASHOK, P. SAI ANIL KUMAR, CH. SUJITH KUMAR bearing register numbers 16H75A0320, 15H71A0358, 16H75A0316, 16H75A0321, 15H71A0380 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.



*Ch. Phani Sai*  
Project Guide

Mr. CHS.R.T.P.SAI  
Asst. Professor

Head of the department

*M. Sreenivasa Rao*  
Dr. M. Sreenivasa Rao  
Professor

*S. Srinivasulu Reddy*  
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Dr. S. Srinivasulu Reddy, Ph.D., IITM  
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MIC College of Technology  
KANCHIKACHERLA, Krishna District

*S. Srinivasulu Reddy*  
EXAMINER 1

*M. Sreenivasa Rao*  
EXAMINER 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



"STATIC AND THERMAL ANALYSIS OF IC ENGINE PISTON BY  
USING DIFFERENT MATERIALS"

A project report submitted to  
Jawaharlal Nehru Technological University, Kakinada.  
In partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING

By

N. NAVEEN  
(Regd. No: 15H71A03B0)

R. SAI RAMA RAJU  
(Regd. No: 15H71A03C0)

P. TEJA  
(Regd. No: 16H75A0341)

SHAIK ISMAIL  
(Regd. No: 15H7510399)

J. SURYA PRAKSH CHOWDARY  
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MIC College of Technology



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UNDER THE ESTEEMED GUIDANCE OF  
Mr. S. SARATH CHANDRA

Devineni Venkata Ramana & Home Science, Tekhar

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2015-2019

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NAAC  
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14.10.2015  
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Devireni Venkata Ramana & Dr. Hima Sekhar  
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**NBA-Accredited**  
6th Cycle (2018-2020)

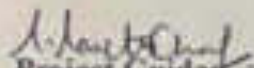
Accredited by  
**NAAC**  
With Grade **A**

As per ISO 9001:2015  
Certified Institute

## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

Certified that the project entitled "STATIC AND THERMAL ANALYSIS OF IC ENGINE PISTON BY USING DIFFERENT MATERIALS" which is a bonafide work carried out by N. NAVEEN, R. SAI RAMA RAJU, P. TEJA, SHAIK ISMAIL, J. SURYA PRAKASH CHOWDARY bearing register numbers 15H71A03B0, 15H71A03C0, 16H75A0341, 15H71A0399, 15H71A03C6 in partial fulfilment for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

  
Project Guide

**Mr. S. SARATH CHANDRA**

**ASSISTANT PROFESSOR**



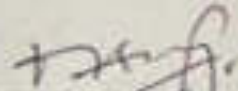
  
**PRINCIPAL**

**Dr. Y. S. SUDHEER BABU**, Ph. D., IITM  
**PRINCIPAL**

Devireni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

  
**Examiner 1**

  
**Examiner 2**

  
**HEAD OF THE DEPARTMENT**

**Dr. M. SREENIVASA RAO**

**PROFESSOR**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



EVALUATION OF MECHANICAL AND THERMAL PROPERTIES OF  
CHICKEN FEATHER FIBRE /PHENOL FORMALDEHYDE COMPOSITE

A Project Report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In the partial fulfillment for the Award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**MECHANICAL ENGINEERING**

By

V MOHAN SAI (15H71A0360)

P.RAM SAI (15H71A0368)

MSANNI BABU (15H71A0375)

M SUMANTH (15H71A0381)

P.RAM MOHAN (15H71A0367)



Under the Esteemed Guidance of  
**Dr. V. SRINIVASA SAI**  
Professor

DEPARTMENT OF MECHANICAL ENGINEERING



Dr. V. Srinivasa Sai  
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20210-5019



Accredited Institute



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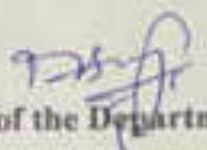



**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE**

Certified that the project entitled "EVALUATION OF MECHANICAL AND THERMAL PROPERTIES OF CHICKEN FEATHER FIBRE/PHENOL FORMALDEHYDE COMPOSITE" which is a bonafide work carried out by V.MOHAN SAI, P.RAM SAI, M.SANNI BABU, M.SUMANTH and P.RAM MOHAN bearing register numbers 15H71A0360, 15H71A0368, 15H71A0375, 15H71A0381 and 15H1A0367 in partial fulfillment for the award of degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING by Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in the aspect of project work prescribed for the said degree.

  
Project guide  
**Dr. V.SRINIVASA SAI**  
Professor



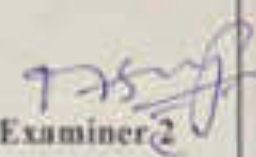
  
Head of the Department  
**Dr. M. Sreenivasa Rao**  
Professor

  
Principal

**Dr. Y. Sudheer Babu**  
Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devinevi Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2



**Department of Electrons & Communication Engineering**

**A.Y:2018-19**

**List of Major Projects**

Batch No	Reg. No	Name of the Student	Project Supervisor	Project Title
A1	15H71A0427	Manohita Ch	D. Rahul	IOT BASED DATA ACQUISITION SYSTEM USING RASPBHERRY PI AND MQTT PROTOCOL
	15H71A0437	Raasi K		
	15H71A04A7	Sri Pavithra K		
	15H71A0479	Lavanya T		
A2	15H71A0407	Bhanu Sri Veda D	B.R.K.Singh	AUTOMATIC SEED SOWING MACHINE
	16H75A0407	Jeevan Prakash N		
	15H71A0439	Ramya K		
	15H71A0460	Vivek K		
A3	15H71A0457	Venkata Naga Sai Teja Sri P	G.Anantha Lakshmi	ANTI POACHING ALARM SYSTEM FOR TREES IN FOREST USING WIRELESS SENSOR NETWORKS
	16H75A0413	Sucharitha S		
	15H71A0444	Sailusha D		
	16H75A0401	Anil Kumar M		
A4	15H71A0454	Sumadhura K	N.Veeraiah	IMAGE BASED PASSWORD AUTHENTICATION USING TOUCH SCREEN & GSM MODULE
	15H71A0408	Bhargavi R		
	15H71A0425	Lakshmi Narasimha Bharath R		
	15H71A0435	Phaneendhra Nath P		
A5	15H71A0449	Sri Priya V	T Sridevi	BOARDER ALERT SYSTEM FOR FISHERMAN USING GPS
	15H71A0401	Anil Kumar K		
	15H71A0440	Rupa Prasuthi P		
	16H75A0404	Aravind Babu V		
A6	15H71A0445	Sajjada Md	K.Thirupathi Rao	BOAT RESCUE SYSTEM USING IOT
	15H71A0436	Priyanka M		
	15H71A0426	Manikanta G		
	15H71A0405	Avinesh G		
A7	15H71A0419	Indeswari Ch	T.Vijayakanth	ARTIFICIAL INTELLIGENCE API FOR CAR PARKING MANAGEMENT USING CONTROLLER AND IMAGE PROCESSING
	15H71A0442	Sai Aasritha V		
	16H75A0410	Narendra Babu Y		
	15H71A0404	Arif Kareem Sk		
A8	15H71A0417	Geethanjali P	Ch.Lakshmana	AGRITECH BOT
	15H71A0412	Delli Sai Krishna M		
	16H75A0403	Anusha T		
	16H75A0408	Jitesh Kumar B		
A9	15H71A0434	Navya G	Ch.Vineela	
	15H71A0413	Durga Prasad Ch		



	16H75A0402	Anusha O		DESIGN OF MICROSTRIP PATCH ANTENNA FOR BIOMEDICAL APPLICATIONS
	16H75A0409	Naga Durga Bhanu Prasanth K		
A10	15H71A0459	Venkateswarlu R	B.Anil Babu	AUTOMATIC SPEED BREAKER SYSTEM
	15H71A0450	Sri Ramya M		
	15H71A0453	Srilekha Y		
	15H71A0420	Jaya Aditya R		
A11	15H71A0414	Eelokya K	A Siva Rama Krishna	AN AUTOMATIC DRIVER DROWSINESS ALERT SYSTEM BY USING RASPBERRY PI & GSM
	15H71A0458	Venkatesh A		
	16H75A0412	Sofia G		
	15H71A0415	Geeth Sagar B		
A12	15H71A0402	Anitha M	J.Naga Surekha	AUTOMATIC NETWORK FAILURE IDENTIFICATION IN RAILWAY TELECOMMUNICATION
	15H71A0406	Basava Anjeneyelu A		
	15H71A0451	Sri Sai Mounika R		
	15H71A0432	Naveen Reddy A		
A13	15H71A0418	Hemalatha V	Dr.Savitesh M Sharma	HEALTH PARAMETERS ANALYSIS & HEART STROKE FORECASTING USING DATA ANALYTICS
	15H71A0446	Saleem Sk		
	15H71A0448	Sowmya Sree U		
	15H71A0428	Mohan Kumar K		
A14	15H71A0422	Jothika K	Ch Pulla Rao	MOVING VEHICLE DETECTION FOR TRAFFIC COUNT
	15H71A0452	Srilatha D		
	16H75A0406	Jagadeesh Babu B		
	15H71A0447	Sivaji T		
A15	15H71A0424	Kanaka Shyam Sundaram K	D Rahul	HUMAN TO MACHINE VOICE COMMUNICATION SYSTEM
	15H71A0411	Deepika M		
	15H71A0403	Anudeep V		
	15H71A0416	Geetha E		
A16	15H71A0431	Nagendra Babu S	L.Tiru Ganesh	SMART MIRROR USING RASPBERRY PI
	15H71A0430	Nagapriyanka B		
	15H71A0410	Chandrakala M		
	15H71A0423	Kalesha Sk		
A17	15H71A0441	Sahithi A	K.Veenanand	TOXIC GASES DETECTION IN RAILWAY
	15H71A0438	Rajesh Ch		
	15H71A0443	Saidulu Ch		
	16H75A0411	Sai Tejaswi T		

Batch No	Reg. No	Name of the Student	Project Supervisor	Project Title
B1	15H71A0494	Pavani K	Dr.Savitesh M Sharma	WIRELESS CONTROLLABLE STAIR CLIMBING ROBOT
	15H71A0470	Indira N		
	16H75A0421	Sai Dinesh Kumar P		
	15H71A0490	Naveen Kumar J		



B2	15H71A04C0	Yeswanthi B	Ch Pulla Rao	LUNG CANCER DETECTION USING CT SCAN IMAGE
	15H71A0464	Chennakeshava Rao M		
	14H71A0488	Kumar T		
B3	15H71A04A6	Sravanthi P	D Rahul	SPEECH SECURITY SYSTEM
	16H75A0415	Bhavya Sri A		
	15H71A0499	Ramesh G		
	16H75A0425	Venkata Reddy K		
B4	15H71A04A2	Sai Sanjeev G	L.Tiru Ganesh	ARDUINO BASED SMART LPG GAS LEAKAGE DETECTOR SYSTEM
	15H71A04B1	Tarun Kumar S		
	15H71A0466	Dinesh Kumar K		
	15H71A0473	Koteswara Rao S		
B5	15H71A0491	Neelika A	K.Veenanand	HOME AUTOMATION USING GOOGLE ASSIST
	16H75A0423	Spandana G		
	15H71A04B9	Viswanadh P		
	15H71A04A8	Srikanth P		
B6	15H71A0467	Geetha Madhuri K	G.Kiran Kumar	SIGNAL CONTROLLER & ANTICOLLISION IN FOG
	15H71A04A1	Sai Charan M		
	15H71A0485	N S Indu M		
	15H71A0475	Kranthi Kumar A		
B7	15H71A04A4	Sowndarya Ch	TMS Bharadwaj	AUTOMATED COACH POSITION SYSTEM
	15H71A04A0	Roshini B		
	16H75A0419	Kalki Srinivas G		
	15H71A04B5	Vamsi M		
B8	15H71A04B2	Teja Sree Ch	K.V.Seshagiri Rao	FIRE DETECTION USING STEREOSCOPIC IMAGING AND IMAGE PROCESSING TECHNIQUES
	15H71A0476	Lahari K		
	15H71A04B4	Uma Raghavendra G		
	15H71A04A9	Surya Prakash M		
B9	15H71A04B3	Tejaswini N	V.Nagarani	AUTONOMOUS LIBRARY
	15H71A04B6	Vasanthi M		
	15H71A0497	Raheem Basha Sk		
	15H71A0493	Omkar Sai Krishna M		
B10	15H71A0461	Amruthavalli K	S.Ramadevi	UNDERGROUND CABLE FAULT LOCATOR USING GSM
	15H71A0477	Lakshmi G		
	16H75A0420	Rabbani Sk		
	14H71A04A2	Ramesh Babu J		
B11	15H71A04B8	Vimala S	V.Lakshmana	IOT BASED SMART SCHOOL BUS MONITORING SYSTEM
	15H71A0478	Lakshmi Narayana S		
	15H71A0486	Naga Jyothi Ch		
	15H71A0463	Chaitanya Kumar M		



B12	15H71A0483	Manoj Kumar Ch	B.Sushma	MIL-STD 1553 BASED MESSAGE SIMULATOR FOR AEROSPACE APPLICATIONS
	15H71A04A3	Sameena Sultana		
	15H71A0495	Pavani N		
	15H71A0498	Rakesh Ch		
B13	15H71A0489	Naveen Babu S	Goutam Kumar Gupta	AUTOMATIC BUS BILLING SYSTEM USING RFID TECHNOLOGY
	15H71A0462	Aruna B		
	15H71A0482	Maneesh Mamatha Ch		
	16H75A0424	Uday R		
B14	15H71A0468	Gnana Naga Satya Bhavani G	M Gopala Krishna	SMART HELMET
	16H75A0418	Jagadish G		
	15H71A0496	Poojitha N		
	16H75A0414	Baji P		
B15	15H71A0481	Mahesh Kumar K	K.Sateesh	POLLUTION ALERT TO PASSENGERS IN TRAIN
	15H71A04B7	Venkateswara Rao J		
	15H71A0465	Dheeraj Krishna G		
	16H75A0422	Sai Surya V		
B16	15H71A0480	Likhitha P	Y.Sruthi	CURRENCY RECOGNITION SYSTEM USING IMAGE PROCESSING
	15H71A0474	Kovela N		
	16H75A0417	Gopi Krishna B		
	14H71A0481	Karthikeyan K		
B17	15H71A04B0	Tarun B	K S R Sastry	PLANT DISEASE DETECTION USING MACHINE LEARNING
	15H71A0471	Jayakrishna G		
	15H71A0488	Naresh Ch		
	16H75A0416	Dattu Praveen P		
Batch No	Reg. No	Name of the Student	Project Supervisor	Project Title
C1	15H71A04H0	Vanaja P	Goutam Kumar Gupta	DECISION TREE BASED SUBSURFACE ANALYSIS USING QFMTWI
	16H75A0430	Karthikeya M		
	15H71A04G1	Sreeja M		
	15H71A04G4	Srinivasa Reddy M		
C2	15H71A04D7	Madhu Chandana K	M Gopala Krishna	ADVANCED DRIVER ASSISTANCE SYSTEM WITH VEHICLE SECURITY FOR SAFE DRIVING
	15H71A04D4	Khurshid Sk		
	15H71A04E0	Manoj Kumar K		
	15H71A04C8	Gopi V		
C3	15H71A04F0	Ramya B	G.Kiran Kumar	SMART TRAFFIC CLEARANCE FOR EMERGENCY VEHICLES
	16H75A0429	Jahnvi Dana Murali Manohar Y		
	15H71A04F9	Sowmyamishra Ch		
	15H71A04F3	Sai Teja P		
C4	15H71A04E1	Mohitha D	Y.Sruthi	



	16H75A0426	Baby Srujana V		DETECTION OF ACCIDENTAL VICTIMS USING ARDUINO
	15H71A04C9	Hari Babu B		
	15H71A04D8	Mani Tirupati Rao D		
C5	15H71A04E7	Pavan S	K S R Sastry	TEXT READER USING RASPBERRY PI
	15H71A04H3	Venkata Harika M		
	15H71A04C5	Divya Y		
	15H71A04G6	Surya Teja B		
C6	15H71A04D3	Kavya T	K.Deepthi	IMAGE STEGNOGRAPHY
	15H71A04G9	Upendra Ch		
	16H75A0435	Venkata Nikhil P		
	15H71A04F7	Sivaparvathi P		
C7	15H71A04C6	Divyalatha J	TMS Bharadwaj	BLUETOOTH VOICE CONTROLLED FIRE EXTINGUISHER ROBOT
	16H75A0431	Madhavipriya P		
	15H71A04H2	Veera Swamy Ch		
	15H71A04C7	Girish Kumar V		
C8	15H71A04G0	Sravani A	P.Leela Pavithra	ROBUST & LOW RANK REPRESENTATION FOR FAST FACE IDENTIFICATION WITH OCCLUSIONS
	15H71A04E6	Nitin Sai G		
	15H71A04E4	Naga Priyanka A		
	15H71A04G3	Srimanth M		
C9	15H71A04D0	Ibrahim Khalilulla Sk	D.Nagaraju	A CONCEPTUASL MODEL FOR AUTOMATED ATTENDANCE MARKING SYSTEM USING FACIAL RECOGNITION
	15H71A04H6	Nitin A		
	15H71A04D5	Krishna Sai Venkata Subash K		
	15H71A04E2	N Akarsh D		
C10	15H71A04E8	Rajarajeswari G	T Sushma	AUTOMATIC FISH FEEDER AND MONITORING SYSTEM USING ARDUIONO
	16H75A0428	Hari Krishna Y		
	15H71A04H1	Vasundhara M		
	16H75A0432	Naga Babu V		
C11	15H71A04E5	Naveen K	K.Sateesh	COLOR BASED PRODUCT SORTING MACHINE
	16H75A0433	Priyanka Ch		
	15H71A04D9	Maniharika D		
	16H75A0436	Venkata Prasad Kumar K		
C12	16H75A0427	Bhagya Sri P	K.V.Seshagiri Rao	REAL TIME LOCATION OF LOCOMOTIVES
	15H71A04E9	Rakesh J		
	15H71A04D2	Kavya Sri R		
	15H71A04F1	Revanth Kumar B		
C13	15H71A04C4	Jaya Anuhya T	B.R.K.Singh	WIRELESS MONITORING AND CONTROLLING OF GREEN HOUSE ENVIRONMENT
	15H71A04G8	Triveni N		
	15H71A04H4	Venkata Mani Teja Ch		
	15H71A04D1	Joseph Eda		





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C14	15H71A04G2	Sri Santhosh Bhargav K	G.Anantha Lakshmi	SOLOR ENERGY TRACING WITH SUPERCAPITORS AS ENERGY STORAGE
	15H71A04D6	Lakshmi Mythili P		
	16H75A0437	Vijaya Lakshmi C		
	15H71A04C1	Anirudh Kumar N		
C15	15H71A04H5	Vineetha N	N.Veeraiah	PREPAID ENERGY METER USING ARDUINO AND NODE MCU
	15H71A04C3	Bhavani P		
	15H71A04F5	Shahil B		
	15H71A04H7	K.S.Sridhar Sastry		
C16	15H71A04F2	S V V S Ravi Raja B	T Sridevi	SELF DRIVING CAR
	15H71A04F6	Siva Kumar M		
	15H71A04G5	Subhakar L		
C17	15H71A04E3	Naga Harika G	K.Thirupathi Rao	SIGN TO SPEECH CONVERTER SYSTEM FOR DISABLED PEOPLE
	15H71A04F4	Satish L		
	15H71A04G7	Suvarna Prakash K		

**Signature of Coordinator**

**Mr. D.Rahul**

**Signature of HoD**

**(Dr.Ch.Pulla Rao)**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"AUTOMATIC SPEED BREAKER SYSTEM"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
In  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

R. Venkateswara (15H71A0459)

M. Sri Ramya (15H71A0450)

Y. Sri Laksh (15H71A0453)

R. Jaya Aditya (15H71A0420)

Under the Esteemed Guidance of  
**Mr. B. Anil Babu, M.Tech.,**  
Assistant Professor

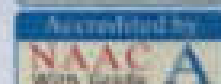
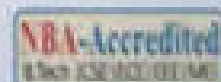
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



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2018-2019



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**CERTIFICATE**

This is to certify that the Main Project entitled "AUTOMATIC SPEED BREAKER SYSTEM" is a bonafide work carried out by R. Venkateswarlu (15H71A0459) M. Sri Ramya (15H71A0450) Y. Sri Lekha (15H71A0453) R. Jaya Aditya (15H71A0420) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Mr. R. ANIL BABU)  
 Project Supervisor



  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department

  
 (Dr. Y. Sudheer Babu)  
 Principal

**Dr.Y. SUDHEER BABU, Ph.D, IITM**  
**PRINCIPAL**  
 Devmani Venkata Ramana & Dr. Himasekhar  
 MIC College of Technology  
 KANCHIKACHERLA, Krishna District

  
 Examiner 1

  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"TOXIC GASES DETECTION IN RAILWAYS"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

A. SAHITHI (15H71A0441)

CH. RAJESH (15H71A0438)

CH. SAIDULU (15H71A0443)

T. SAI TEJASWI (16H75A0411)

Under the Esteemed Guidance of  
**Mr.K.VEEANAND,M.Tech.,**  
Assistant Professor

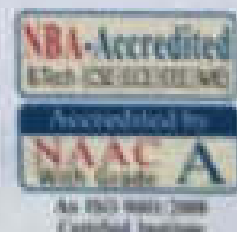
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**CERTIFICATE**

This is to certify that the Main Project entitled "Toxic Gases Detection in Railways" is a bonafide work carried out by A.Sahithi(15H71A0441), CH.Rajesh(15H71A0439), CH.Saidulu(15H71A0443), T.Sai Tejaswi(16H75A0411) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Mr. KVEENANAND)

Project Supervisor



  
 (Dr. Goutam Kumar Gupta)

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(Dr. Y. Sudheer Babu)

Principal  
**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
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Devineni Venkata Ramana & Dr. Himu Sekhar  
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 YANDRAPADA, Krishna District

  
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 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"IOT BASED SMART SCHOOL BUS MONITORING"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

S. VIMALA (15H71A0408)

S. LAKSHMI NARAYANA (15H71A0478)

CH. NAGA JYOTHI (15H71A0486)

M. CHAITANYA KUMAR (15H71A0462)

Under the Esteemed Guidance of  
**Mr. V. Lakshmana, M. Tech.,**  
Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



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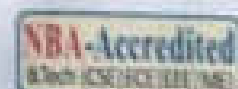
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2018-2019



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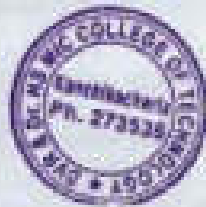
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**2018-2019**




## CERTIFICATE

This is to certify that the Main Project entitled "IOT BASED SMART SCHOOL BUS MONITORING" is a bonafide work carried out by S. VIMALA (15H71A0488), S. LAKSHMI NARAYANA (15H71A0478), CH. NAGA JYOTHI (15H71A0486), M. CHAITANYA KUMAR (15H71A0463) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
(Mr. V. Lakshmana)  
Project Supervisor



  
(Dr. Goutam Kumar Gupta)  
Head of the Department



(Dr. Y. Sudheer Babu)

Principal

Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Himasekhar  
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KANCHIKACHERLA, Krishna District

  
Examiner I

  
Examiner II

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**“DESIGN OF INVERTED E-SHAPED TEXTILE ANTENNA FOR  
MEDICAL APPLICATIONS”**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

G. NAVYA (15H71A0434)

CH. DURGA PRASAD (15H71A0413)

O. ANUSHA (16H75A0402)

K. NAGA DURGA BHANU PRASANTH (16H75A0409)

Under the Esteemed Guidance of  
**Mrs. K. DEEPTHI, M. Tech.,**  
Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



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2018-2019

**CERTIFICATE**

This is to certify that the Main Project entitled "DESIGN OF INVERTED E-SHAPED TEXTILE ANTENNA FOR MEDICAL APPLICATIONS" is a bonafide work carried out by G.NAVYA(15H71A0634), CHIDURGAPRASAD(15H71A0613), O.ANUSHA(16H75A0402), and K.NAGADURGABHANUPRASANTH(16H75A0409) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Mrs. K. DEEPTHI)  
 Project Supervisor



  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department

  
 (Dr. Y. Sudheer Babu)

Principal  
**Dr. Y. SUDHEER BABU, M.D.JITB**  
 PRINCIPAL  
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 MIC College of Technology  
 YANCHIKACHERLA, Krishna District

  
 Examiner 1

  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"ANTI-POACHING ALARM SYSTEM FOR TREES IN FOREST  
USING WIRELESS SENSOR NETWORKS"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

F. Venkata Naga Sai Teja Sri (15H71A0457)

S. Sucharitha (16H75A0413)

D. Sailusha (15H71A0444)

M. AnilKumar (16H75A0401)

Under the Esteemed Guidance of  
Mrs. G. ANANTHA LAKSHMI, M.Tech.,  
Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Devineni Venkata Ramana & Dr.Hima Sekhar  
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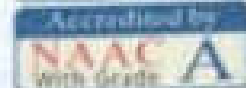
2018-2019





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As per NAAC 2008  
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2018-2019

**CERTIFICATE**

This is to certify that the Main Project entitled "ANTI-POACHING ALARM SYSTEM FOR TREES IN FOREST USING WIRELESS SENSOR NETWORKS" is a bonafide work carried out by P. VENKATA NAGA SAI TEJA SRI (15H71A0457), S.SUCHARITHA (16H75A0413), D. SAILUSHA (15H71A0444), M. ANILKUMAR (16H75A0401) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
(Mrs. G. ANANTHA LAKSHMI)  
Project Supervisor



  
(Dr. GOUTAM KUMAR GUPTA)  
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Principal

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Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"Moving Vehicle Detection for Traffic Count"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

Jothikak (15H71A0422)

D. Sriatha (15H71A0452)

B. Jagadheesh Babu (16H75A0406)

T. Sivaji (15H71A0447)

Under the Esteemed Guidance of  
**Mr. Ch. Pulla Rao**  
Associate Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Devineni Venkata Ramana & Dr.Hima Sekhar  
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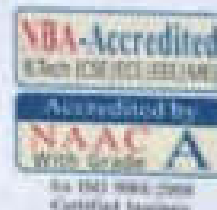
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As per NAAC 2016  
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**CERTIFICATE**

This is to certify that the Main Project entitled "Moving Vehicle Detection for Traffic Count" is a bonafide work carried out by Juthika, K(15H71A0422), SriLatha, D(15H71A452), B. Jagadeesh Babu(16H75A0406), T. Sivaji (15H71A0447) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

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(Dr. Goutam Kumar Gupta)  
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**KANCHIKACHERLA, KRISHNA DISTRICT**

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"LUNG CANCER DETECTION USING CT-SCAN IMAGE"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

**B. YESWANTHI (15H71A04C9) M. CHENNAKESHAVA RAO (15H71A0464)**  
**T. KUMAR (14H71A0488)**

Under the Esteemed Guidance of  
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Associate Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



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## CERTIFICATE

This is to certify that the Main Project entitled "LUNG CANCER DETECTION USING CT-SCAN IMAGE" is a bonafide work carried out by B. YESWANTHI (15H71A04C0), M. CHIENNAKESHAVA RAO (15H71A0464), T. KUMAR (14H71A0488) in partial fulfillment for the award of degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING** of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
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Project Supervisor



  
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(Dr. Y. Sudheer Babu)  
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Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"Pollution Alert to Passengers in Train"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

MAHESH KUMAR K(15H71A0481)

DHEERAJ KRISHNA G(15H71A0465)

VENKATESWAR RAO J(15H71A0487)

SAI SURYA V(16H75A0422)

Under the Esteemed Guidance of  
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Assistant Professor

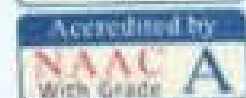
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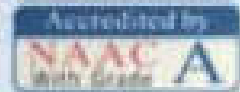
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As per 1001/2009  
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**CERTIFICATE**

This is to certify that the Main Project entitled "Pollution Alert to Passengers in Train" is a bonafide work carried out by Mahesh Kumar K(15H71A0481), Venkateswar Rao J(15H71A04B7), Dheeraj Krishna G(15H71A0465) and Sai Surya V(16H75A0422) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Mr. K. SATISH)  
 Project Supervisor



  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department

  
 (Dr. Y. Sudheer Babu)  
 Principal

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 Devinees Venkata Ramana & Dr. Hima Sekhar  
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 KANCHIKACHERLA, Krishna District

  
 Examiner 1

  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



## “AUTONOMOUS LIBRARY”

Submitted to

Jawaharlal Nehru Technological University Kakinada

in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

N.TEJASWINI (15H71A04B3)

M.VASANTHI (15H71A04B6)

SK.RAHEEM BASHA (15H71A0497)

M.LOMKAR SAI KRISHNA (15H71A0493)

Under the Esteemed Guidance of

**Mrs. V. NAGARANI, M.Tech.,**

*Assistant Professor*

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



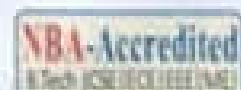
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Kanchikacherla - 521180, Krishna Dist, A.P, India.

2018-2019



As per NAAC 2018  
Certified Institute



Devineni Venkata Ramana & Dr.Hima Sekhar  
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 2018-2019





## CERTIFICATE

This is to certify that the Main Project entitled "AUTONOMOUS LIBRARY" is a bonafide work carried out by N.Tejaswini (15H71A04B3), M.Vasanthi (15H71A04B6), SK.Raheem hasha (15H71A0497), M.Omkar sai krishna (15H71A0493) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Mrs V. NAGARANI)  
 Project Supervisor



  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department

  
 (Dr. Y. Sudheer Babu)  
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 Principal,  
 Devineni Venkata Ramana & Dr. Hima Sekhar  
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 KANCHIKACHERLA, Krishna District

  
 Examiner 1

  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"UNDERGROUND CABLE FAULT DETECTION"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
**in**  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

K. Amrutha valli (15H71A0461)

G. Lakshmi (15H71A0477)

Sk. Rabbani (16H75A0420)

J. Ramesh babu (14H71A04A2)

Under the Esteemed Guidance of  
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Devineni Venkata Ramana & Dr. Hima Sekhar  
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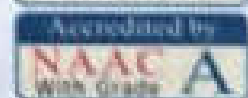
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2018-2019



As per NAAC 2008  
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2018-2019

**NBA-Accredited**  
B.Tech (ECE/EEE/ME)

Accredited by  
**NAAC**  
With Grade **A**


An ISO 9001:2015  
Certified Institute

**CERTIFICATE**

This is to certify that the Main Project entitled "Underground cable fault detection" is a bonafide work carried out by K. Amrutha valli(15H71A0461), G. Lakshmi (15H71A0477), Sk. Rabbani(16H75A0420), J. Ramesh babu(14H71A04A2) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
(Mrs. SRAMADEVI)  
Project Supervisor



  
(Dr. Goutam Kumar Gupta)  
Head of the Department

  
(Dr. Y. Sudheer Babu)

Principal

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PRINCIPAL

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KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"COLOR BASED PRODUCT SORTING MACHINE"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

K. Naveen (15H71A04E5)

D. Mani Harika (15H71A04D9)

CH. Priyanka (16H75A0433)

K. V. Prasad Kumar (16H75A0436)

Under the Esteemed Guidance of  
**Mr. K. SATEESH., M. Tech.,**  
Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Devineni Venkata Ramana & Dr.Hima Sekhar  
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2018-2019

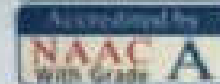
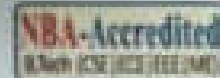




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2018-2019



As 1801/2011/2008  
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### CERTIFICATE

This is to certify that the Main Project entitled "COLOR BASED PRODUCT SORTING MACHINE" is a bonafide work carried out by K. Naveen (15H71A04E5), CH. Priyanka (16H75A0433), D. Mani Harika (15H71A04D9), K. V. Prasad Kumar (16H75A0436) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

(Mr. K. Sateesh)  
Project Supervisor



(Dr. Goutam Kumar Gupta)  
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**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
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Deviveni Venkata Ramana & Dr. Himasekhar  
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KANCHIKACHERLA, Krishna District

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**HUMAN TO MACHINE VOICE COMMUNICATION SYSTEM**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

K. SHYAM (15H71A0424)

M. DEEPIKA (15H71A0411)

V. ANUDEEP (15H71A0403)

E. GEETHA (15H71A0416)

Under the Esteemed Guidance of  
**Mr. D. RAHUL, M.S.,**  
Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Devineni Venkata Ramana & Dr Hima Sekhar  
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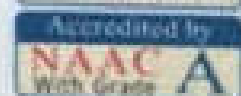
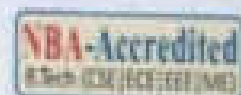
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All India Quality Council  
Certified Institute

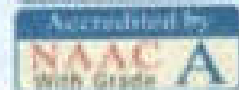




Devineni Venkata Ramana & Dr. Himma Sekhar  
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2018-2019



AN ISO 9001:2008  
 Certified Institute

**CERTIFICATE**

This is to certify that the Main Project entitled "HUMAN TO MACHINE VOICE COMMUNICATION SYSTEM" is a bonafide work carried out by K. SHYAM (15H71A0424), M. DEEPIKA (15H71A0411), V. ANUDEEP (15H71A0403), E. GEETHA (15H71A0416) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

(Mr. D. RAHUL)

Project Supervisor



(Dr. Goutam Kumar Gupta)

Head of the Department

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Principal

Dr. Y. SUDHEER BABU, Ph.D., IITM  
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Devineni Venkata Ramana & Dr. Himma Sekhar  
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 KANCHIKACHERLA, Krishna District

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"A CONCEPTUAL MODEL FOR AUTOMATIC ATTENDANCE  
MARKING SYSTEM USING FACIAL RECOGNITION"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
In  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

SK. IBRAHIM (15H71A04D0)

K. SUBHASH (15H71A04D5)

A. NITIN (15H71A04H5)

D.N. AKARSH (15H71A04E2)

Under the Esteemed Guidance of  
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Assistant Professor

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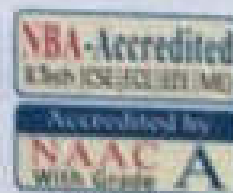
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As 15th April 2018  
Certified Version

2018-2019



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## CERTIFICATE

This is to certify that the Main Project entitled "A CONCEPTUAL MODEL FOR AUTOMATIC ATTENDANCE MARKING SYSTEM USING FACIAL RECOGNITION" is a bonafide work carried out by SK.IBRAHIM KHALILULLA (15H71A04D0), ANTHIN (15H71A04B6),K.SUBHASH(15H71A04D5), D.N.AKARSH(15H71A04E2) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

Mr. D.NAGARAJU  
(Project Supervisor)



Dr. GOUTHAM KUMAR GUPTA  
(Head of the Department)

Dr. Y. SUDHEER BABU

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Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

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KANCHIKACHERLA, Krishna District

EXAMINER 1

EXAMINER 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"Automatic Seed Sowing Machine"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

D. Bhana Sri Veda (15H71A0407)

N. Jeevan Prakash (16H75A0407)

K. Ramiya (15H71A0439)

K. Vivek (15H71A0460)

Under the Esteemed Guidance of  
**Mr. B. Radha Krishna Singh, M.Tech, MIE, DCHE.,**  
Associate Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Devineni Venkata Ramana & Dr. Himu Sekhar  
**MIC College of Technology**

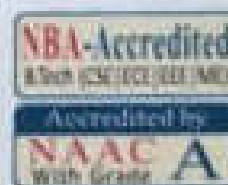
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This is to certify that the Main Project entitled "Automatic Seed Sowing Machine" is a bonafide work carried out by D. Bhanu Sri Veda (15H71A0407), N. Jeevan Prakash (16H75A0407), K. Ramya (15H71A0439), K. Vivek (15H71A0460) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.



  
(Mr. B. Radha Krishna Singh)  
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Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"ARTIFICIAL INTELLIGENCE API FOR CAR PARKING  
MANAGEMENT SYSTEM USING CONTROLLER AND IMAGE  
PROCESSING USING RASPBERRY PI"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

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V.Sai Ansritha (15H71A0442)

Y.Narendra (16H75A0410)

Sk. Arif Karim(15H71A0404)

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A.Y:2018-2019



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## CERTIFICATE

This is to certify that the Main Project entitled "ARTIFICIAL INTELLIGENCE API FOR CAR PARKING MANAGEMENT SYSTEM USING CONTROLLER AND IMAGE PROCESSING USING RASPBERRY PI" is a bonafide work carried out by CHINDESWARI (15H71A0419), V.SAI AASRITHA (15H71A0442), Y.NARENDRA (16H75A0410), SK ARIF KARIM (15H71A0404) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
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Dr. Goutam Kumar Gupta  
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Examiner I

  
Examiner I

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**“ROBUST AND LOW-RANK REPRESENTATION FOR FAST FACE IDENTIFICATION WITH OCCLUSIONS”**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

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G.NITIN SAI (15H71A04E6)

A.NAGA PRIYANKA (15H71A04E4)

MSRIMANTH (15H71A04G3)

Under the Esteemed Guidance of  
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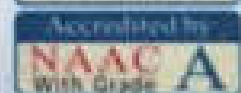
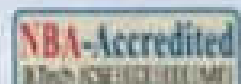
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**CERTIFICATE**

This is to certify that the Main Project entitled "ROBUST AND LOW-RANK REPRESENTATION FOR FAST FACE IDENTIFICATION WITH OCCLUSIONS" is a bonafide work carried out by A.SRAVANI (15H71A04G0), G.NITIN SAI (15H71A04E6), A.NAGA PRIYANKA (15H71A04E4), M.SRIMANTH (15H71A04G3) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
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 Examiner 1

  
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"IMAGE STEGANOGRAPHY"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

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Ch.Upendra (15H71A04G9)

P. Venkat Nikhil (16H75A0435)

P.Siva Parvathi (15H71A04F7)

Under the Esteemed Guidance of  
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This is to certify that the Main Project entitled "IMAGE STEGANOGRAPHY" is a bonafide work carried out by T.Kavya (15H71A04D3 ) CH.Upendra (15H71A04G9) P.Nikhil (16H75A0435) P.Siva Parvathi (15H71A04F7) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.



  
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**TEXT READER USING RASPBERRY PI**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

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**In**  
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M.VENKATA HARIKA (15H71A04ED)

Y.DIVYA (15H71A04C5)

B.SURYA TEJA (15H71A04G6)

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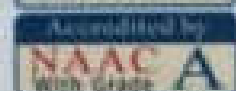
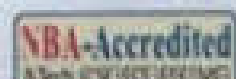
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**CERTIFICATE**

This is to certify that the Main Project entitled "TEXT READER USING RASPBERRY PI" is a bonafide work carried out by S.PAVAN (15H71A04E7), M.VENKATA HARIKA (15H71A04H3), Y.DIVYA (15H71A04C5), B.SURYA TEJA (15H71A04G6) in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Mr. K. S. R. Sastry)  
 Project Supervisor



  
 (Dr. Goutam Kumar Gupta)  
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 (Dr. Y. Sudheer Babu)

**Dr. Y. S. Principal** B.A.B.U, Ph.D, IITM  
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 Examiner 1

  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"BLUETOOTH VOICE CONTROLLED FIRE EXTINGUISHER  
ROBOT"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

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MADHAVI PRIYA.P(16H75A0431)

VEERA SWAMY.CH (15H71A04B2)

GIRISH KUMAR.V (15H71A04C7)

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Assistant Professor

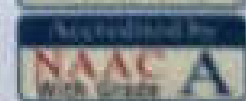
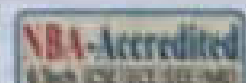
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**CERTIFICATE**

This is to certify that the Main Project entitled "BLUETOOTH VOICE CONTROLLED FIRE EXTINGUISHER ROBOT" is a bonafide work carried out by DIVYALATHA.R(15H71A04C6),MADHAVIPRIYA.P(16H75A0401),VEERASWAMY.CH(15H75A04H2),GIRISH KUMAR.V(15H71A04C7) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Mr. TMS. BHARADWAJ)  
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"BORDER ALERT SYSTEM FOR FISHERMEN USING GPS"**

Submitted to

Jawaharlal Nehru Technological University Kakinada

in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

V.SRI PRIYA(15H71A0449)

K.ANIL KUMAR (15H71A0401)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

*Devireni Venkata Ramana & Dr.Hima Sekhar*

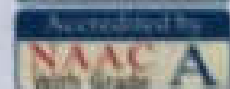
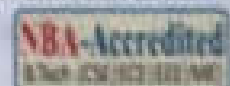
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**CERTIFICATE**

This is to certify that the Main Project entitled "BORDER ALERT SYSTEM FOR FISHERMEN USING GPS" is a bonafide work carried out by V. SRI PRIYA (15H71A0449), KANIL KUMAR(15H71A0400), P. RUPA PRASUTHI (15H71A0440), V. ARAVIND BABU (16H75A0404) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.


  
 (Ms. T. SRIDEVI)  
 Project Supervisor



  
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"Advanced Driver Assistance System (ADAS) with Vehicle Security for Safe Driving"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

K. Madhu Chandana	(15H71A04D7)	SK. Khurshid	(15H71A04D4)
K. Manoj Kumar	(15H71A04E0)	V. Gopi	(15H71A04C0)

Under the Esteemed Guidance of  
**Mr. M. Gopala Krishna** M.Tech, Ph.D.  
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Devineni Venkata Ramesh & Dr. Hima Sekhar  
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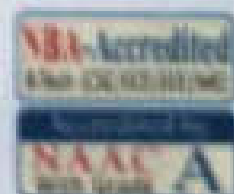
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2018-2019



By 04/09/2018  
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2018-2019



**CERTIFICATE**

This is to certify that the Main Project entitled "ADVANCED DRIVER ASSISTANCE SYSTEM (ADAS) WITH VEHICLE SECURITY FOR SAFE DRIVING" is a bonafide work carried out by K. Madhu Chandana (15H71A0407), SK. Khurshid (15H71A0404), K. Mansi Kumar (15H71A0408), V. Gopi (15H71A0409) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

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 (M. Gopala Krishna)  
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*Goutam Kumar Gupta*  
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*[Signature]*  
 Examiner 1

*[Signature]*  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"SMART MIRROR USING RASPBERRY PI"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

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B. NAGAPRIYANKA (15H71A0430)

M. CHANDRAKALA (15H71A0410)

SK. KALESHA (15H71A0423)

Under the Esteemed Guidance of  
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Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



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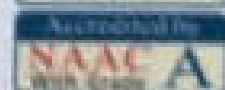
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2018-2019



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**CERTIFICATE**

This is to certify that the Main Project entitled "SMART MIRROR USING RASPBERRY PI" is a bonafide work carried out by S. NAGENDRA BABU (15H71A0431), B. NAGAPRIYANKA (15H71A0400), M. CHANDRAKALA (15H71A0410), SK. KALESHA (15H71A0420) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
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Project Supervisor



  
(Dr. GOUTAM KUMAR GUPTA)  
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Principal

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Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**IMAGE BASED PASSWORD AUTHENTICATION USING TOUCH  
SCREEN AND GSM MODULE**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

K. Suresh Babu (15H71A0454)

R. L. N Bharath (15H71A0425)

R. Bhargavi (15H71A0408)

P. Phaneendra Nath (15H71A0405)

Under the Esteemed Guidance of  
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Assistant Professor

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This is to certify that the Main Project entitled "IMAGE BASED PASSWORD AUTHENTICATION USING TOUCH SCREEN AND GSM MODULE" is a bonafide work carried out by **K. Sumadhura (15H71A0454), R. Bhargavi (15H71A0408), R. L. N Bharath (15H71A0425), P. Phaneendra Nath (15H71A0435)** in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
(Mr. N. Veeriah)  
Project Supervisor



  
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Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**“DECISION TREE BASED SUBSURFACE ANALYSIS  
USING QUADRATIC FREQUENCY MODULATED  
THERMAL WAVE IMAGING”**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
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Madala Sreeja (15H71A04G1)

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**CERTIFICATE**

This is to certify that the Main Project entitled "Decision Tree Based Subsurface Analysis Using Quadratic Frequency Modulated Thermal Wave Imaging" is a bonafide work carried out by P.Venaja (15I171A0410), M.Karthikeya (15I171A0406), M.Sreeja (15I171A04G1), M.Srinivasa Reddy (15I171A04G4) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

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Project Supervisor

*Goutam Kumar Gupta*  
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*Examiner I*

*Examiner II*

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**HEALTH PARAMETER ANALYSIS AND HEART STROKE  
FORECASTING USING DATA ANALYTICS**

Submitted to

Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

in

**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

V. Hemalatha (15H71A0418)

SK. Saleem (15H71A0446)

U. Sowmya sree (15H71A0448)

K. Mohan Kumar(15H71A0428)

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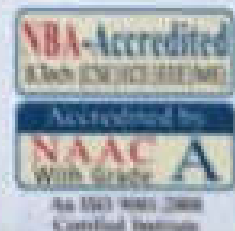
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## CERTIFICATE

This is to certify that the Main Project entitled **HEALTH PARAMETERS ANALYSIS AND HEART STROKE FORECASTING USING DATA ANALYTICS** is a bonafide work carried out by V. HEMALATHA(15H71A0418), SK. SALEEM(15H71A0446), U. SOWMYASREE(15H71A0448) & K. MOHAN KUMAR(15H71A0428) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

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(Dr. Goutam Kumar Gupta)  
Head of the Department



(Dr. Y. Sudheer Babu)  
Dr. Y. SUDHEER BABU, Ph.D, JNTU  
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Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KARNATAKA



**"PLANT DISEASE DETECTION USING  
MACHINE LEARNING"**

Submitted to  
Jawaharlal Nehru Technological University Karnataka  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
ELECTRONICS & COMMUNICATION ENGINEERING**

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G. Jayashree (150171A0470)

P. Datta Prasen (160171A0416)

Ch. Naveel (150171A0488)

Under the Esteemed Guidance of  
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### CERTIFICATE

This is to certify that the Main Project entitled "PLANT DISEASE DETECTION USING MACHINE LEARNING" is a bonafide work carried out by B. Taran (15071A0480), G. Jayashree (15071A0471), P. Dinesh Praveen (16071A0470), Ch. Naveen (15071A0488) in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharal Nehru Technological University Kakinada during the year 2018-19.

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Project Supervisor



(Dr. Goutam Kumar Gupta)  
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"Detection of accidental victims using ARDUINO"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
**in**  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

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V.B.Srujana(16H75A0426)

B.Hari babu(15H71A04C9)

D.Manirupathirao(15H71A04D8)

Under the Esteemed Guidance of  
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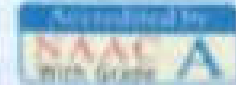
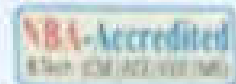
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2018-2019

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This is to certify that the Main Project entitled "Detection of accidental victims using ARDUINO" is a bonafide work carried out by Divveta Mohana (15H71A0481), V.B.Srejana(16H75A0426), B.Hari babu(15H71A0449), D.Manjirupathineni(15H71A0408) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.



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(Mrs. Y. Sruthi)  
 Project Supervisor



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 (Dr. Goutam Kumar Gupta)

Head of the Department

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(Dr. Y. Sudheer Babu)

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 Examiner 1

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 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"SELF DRIVING CAR"**

Submitted to  
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in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

**R.S.V.V.S.RAVI RAJA (15H71A04F2)**

**MSIVA KUMAR (15H71A04F0)**

**L.SUBHAKAR (15H71A04G5)**

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**(M.T.SRIDEVI)**  
 Project Supervisor



*(Dr. Goutam Kumar Gupta)*  
**(Dr. Goutam Kumar Gupta)**  
 Head of the Department

*(Dr. Y. Sudheer Babu)*  
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**Principal**  
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*(Examiner 1)*  
**Examiner 1**

*(Examiner 2)*  
**Examiner 2**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"WIRELESS MONITORING AND CONTROLLING OF GREEN HOUSE ENVIRONMENT"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

T. Jaya Anubya (15H71A04C4)

N. Triveni (15H71A06G8)

CH. Venkata Mani Teja (15H71A04H4)

E. Joseph (15H71A04D1)

Under the Esteemed Guidance of

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Associate Professor

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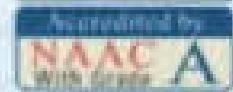




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**CERTIFICATE**

This is to certify that the Main Project entitled "WIRELESS MONITORING AND CONTROLLING OF GREEN HOUSE ENVIRONMENT" is a bonafide work carried out by T. Jaya Anubha (15H71A04C4), N.Triveni (15H71A04G8), CH. Venkata Mani Teja (15H71A04H4), E. Joseph (15H71A04D1) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

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Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**PREPAID ENERGY METER USING ARDUINO AND NODEMCU**

Submitted to

Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

In

**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

N. VINEETHA (15H71A04H5)

P. BHAVANI

(15H71A04C3)

B. SHAHIL (15H71A04F5)

K. N. V. S. R. S. SASTRY (15H71A04H7)

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This is to certify that the Main Project entitled "PREPAID ENERGY METER USING ARDUINO AND NODEMCU" is a bonafide work carried out by N. VINEETHA (15H71A04H5), P. BHAVANI (15H71A04C3), B. SHAHIL (15H71A04F5), K. N. V. S. R. S. SASTRY (15H71A04H7) in partial fulfilment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.



*N. Veeriah*

(N. Veeriah)

Project Supervisor



*Goutam Kumar Gupta*

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*Dr. Y. Sudheer Babu*

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Examiner 1

*[Signature]*  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**“Detection of accidental victims using ARDUINO”**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
**in**  
**ELECTRONICS & COMMUNICATION ENGINEERING**

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Divvela Mohitha (15H71A04E1)

V.R.Srujana(16H75A0426)

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2018-2019

**CERTIFICATE**

This is to certify that the Main Project entitled "**Detection of accidental victims using ARDUINO**" is a bonafide work carried out by Divveta Mohitha (15H71A04E1), V.B.Srujana(16H75A0426), B.Hari babu(15H71A04C9), D.Manitirupathirao(15H71A04D8) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

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(Mrs. Y. Sruthi)  
 Project Supervisor

*(Handwritten signature)*

(Dr. Goutam Kumar Gupta)  
 Head of the Department



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(Dr. Y. Sudheer Babu)

Principal

**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
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Devineni Venkata Ramana & Dr. Hima Sekhar  
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 KANCHIKACHERLA, Krishna District

*(Handwritten signature)*  
 Examiner 1

*(Handwritten signature)*  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**“Detection of accidental victims using ARDUINO”**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

Divvela Mohitha (15H71A04E1)

V.B.Srujana(16H75A0426)

B.Hari babu(15H71A04C9)

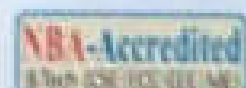
D.Manitirupathirao(15H71A04D8)

Under the Esteemed Guidance of  
**Mrs. Y. Sruthi M.Tech.,**  
Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



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**2018-2019**



As per UGC 10th Edition  
Verified Institution





Devineni Venkata Ramana & Dr.Hima Sekhar  
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2018-2019



## CERTIFICATE

This is to certify that the Main Project entitled "Detection of accidental victims using ARDUINO" is a bonafide work carried out by Divveela Mohitha (15H71A04E1), V.B.Srujana(16H75A0426), B.Hari Babu(15H71A04C9), D.Manikrupathirao(15H71A04D8) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

(Mrs. Y. Sruthi)  
Project Supervisor



(Dr. Goutam Kumar Gupta)  
Head of the Department

(Dr. Y. Sudheer Babu)

Principal

**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
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Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**“Currency Detection System using Image Processing”**

Submitted to

Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

Likhitha P (15H71A0480)

Kovela N (15H71A0474)

Gopi Krishna B (16H75A0417)

Karthikeyan K(14H71A0481)

Under the Esteemed Guidance of  
**Mrs. Y. SRUTHI, M.Tech., Assistant Professor**

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2018-2019



**CERTIFICATE**

This is to certify that the Main Project entitled "Currency Recognition System using Image Processing" is a bonafide work carried out by Likhitha P(15H71A0480), Kovela N(15H71A0474), Gopi Krishna B(16H75A0417), Karthikeyan K(14H71A0481) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

*Y. Sruthi*  
(Mrs. Y. Sruthi)

Project Supervisor



*Goutam Kumar Gupta*

(Dr. Goutam Kumar Gupta)

Head of the Department

*Dr. Y. Sudheer Babu*

(Dr. Y. Sudheer Babu)

Principal

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Devineni Venkata Ramana & Dr. Hirnasekhar  
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*Examiner 1*  
Examiner 1

*Examiner 2*  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"AUTOMATIC FISH FEEDING & MONITORING SYSTEM  
USING ARDUINO"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

in

**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

G RAJA RAJESWARI (15H71A04E8)

Y HARI KRISHNA (16H75A0428)

M VASUNDHRA (15H71A04H1)

V NAGA BARU (16H75A0432)

Under the Esteemed Guidance of

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Devineni Venkata Ramana & Dr. Hima Sekhar

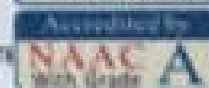
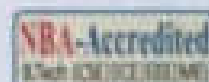
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As per NAAC 2008  
Criteria Score




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**CERTIFICATE**

This is to certify that the Main Project entitled "AUTOMATIC FISH FEEDING AND MONITORING SYSTEM USING ARDUINO" is a beneficial work carried out by **G RAJA RAJESWARI (15H71A0418)**, **V HARI KRISHNA (16H75A0402)**, **M VASUNDHRA (15H71A0401)**, **V NAGA BABU (16H75A0403)** in partial fulfillment for the award of degree of *Bachelor of Technology in Electronics and Communication Engineering* of *Jawaharlal Nehru Technological University Kakinada* during the year 2018-19.

  
 (M.T.SUSHMA)  
 Project Supervisor



  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department



(Dr. Y. Sudheer Babu)

  
 Dr. Y. SUDHEER BABU, Ph.D., IITB  
 PRINCIPAL

Devendra Venkata Ramana & Dr. Hima Sekhar  
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 KANCHIKACHERLA, Krishna District

  
 Examiner I

  
 Examiner

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"MIL-STD 1553B Based Message Simulator for Aerospace Application"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

CH.MANOJ KUMAR (15H71A0483)

SAMEENA SULTANA (15H71A04A2)

N.PAVANI (15H71A0495)

CH.RAKESH (15H71A0498)

Under the Esteemed Guidance of  
**MS. B. SUSHMA, M.Tech.,**  
Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Devineni Venkata Ramana & Dr.Hima Sekhar  
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**CERTIFICATE**

This is to certify that the Main Project entitled "MIL-STD 1553 BASED MESSAGE SIMULATOR FOR AEROSPACE APPLICATIONS" is a bonafide work carried out by CILMANOJ KUMAR (15H71A0483), SAMEENA SULTANA (15H71A04A3), N.PAVANI(15H71A0495), CHRAKESH(15H71A0498) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.


  
(B. S. SENTHIMA)

Project Supervisor



  
(Dr. Goutam Kumar Gupta)

Head of the Department

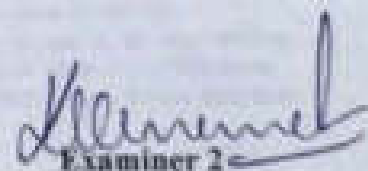
  
(Dr. Y. Sudheer Babu)

Principal

Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

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KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKISADA



**"ARDUINO BASED SMART LPG GAS LEAKAGE  
DETECTOR SYSTEM"**

Submitted to  
Jawaharlal Nehru Technological University Kakisada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

G.Sai Sanjey (15H71A04A2)

S.Tarun Kumar (15H71A04B1)

K.Dinesh Kumar (15H71A0466)

S.Koteswara Rao (15H71A0473)

Under the Esteemed Guidance of  
**Mr. L.Tiru Ganesh, M.Tech.,**

Assistant Professor

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**2018-2019**




**CERTIFICATE**

This is to certify that the Main Project entitled **"ARDUINO BASED SMART LPG GAS LEAKAGE DETECTOR SYSTEM"** is a bonafide work carried out by G.Sai Sanjeev(15H71A04A2), K.Dinesh Kumar (15H71A0466), K.Tarun Kumar(15H71A0481), S.Katewara Rao (15H71A0478) in partial fulfillment for the award of degree of Bachelor of Technology in **Electronics and Communication Engineering** of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Mr. L. Tiru Ganesh)  
 Project Supervisor



  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department

  
 (Dr. Y. Sudheer Babu)

Principal  
**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
 PRINCIPAL

Devireni Venkata Ramana & Dr. Himzasakar  
**MIC College of Technology**  
 YANCHIKACHERLA, Krishna District

  
 Examiner 1

  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"BOAT RESCUE SYSTEM USING IOT"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

M.L. Sejjada (15H71A0445)

M. Priyanka (15H71A0436)

G. Manikanta (15H71A0426)

G. Avinash (15H71A0405)

Under the Esteemed Guidance of  
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Assistant Professor

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**MIC College of Technology**

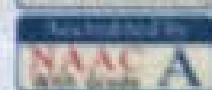
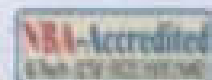
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**CERTIFICATE**

This is to certify that the Main Project entitled "Boat Rescue System using IOT" is a bonafide work carried out by ML Sajjad (15H71A0445), ML Priyanka (15H71A0406), G. Manikanta (15H71A0426), G. Avinash (15H71A0405) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

*Mr. K. Thirupathi Rao*  
 30/03/19

(Mr. K. Thirupathi Rao)  
 Project Supervisor



*Dr. Goutam Kumar Gupta*

(Dr. Goutam Kumar Gupta)  
 Head of the Department

*Dr. Y. Sudheer Babu*

(Dr. Y. Sudheer Babu)

Principal

**Dr. Y. SUDHEER BABU, Ph.D., IITB**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Himra Sekhar  
**MIC College of Technology**  
**KANCHIKACHERLA, Krishna District**

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"HOME AUTOMATION USING GOOGLE ASSIST"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

A. NEELIKA	(15H71A0491)	G. SPANDANA	(16H75A0427)
P. VISWANADH	(15H71A0489)	P. SRIKANTH	(15H71A0448)

Under the Esteemed Guidance of  
**Mr. K. VEENANAND, M.Tech**  
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



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**CERTIFICATE**

This is to certify that the Main Project entitled "HOME AUTOMATION GOOGLE ASSIST" is a bonafide work carried out by A. NEELIKA (15H71A0401), G. SPANDANA (16H75A0413), P. VISWANADH (15H71A0409), P. SRIKANTH (15H71A0404) in partial fulfillment for the award of degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Mr. K. Venanand)  
 Project Supervisor



  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department

  
 (Dr. Y. Sudheer Babu)  
 Principal

**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
 PRINCIPAL  
 Devineni Venkata Ramana & Dr. Hima Sekhar  
 MIC College of Technology  
 KANCHIKACHERLA, Krishna District

  
 Examiner 1

  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"SOLAR ENERGY TRACING WITH SUPERCAPACTOR AS ENERGY STORAGE"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

K.Santosh Bhargav (15H71A04G2)  
Ch.Vijaya Lakshmi(16H75A0437)

P.Lakshmi Mythili (15H71A04D6)  
N.Anirudh Kumar (15H71A04C1)

Under the Esteemed Guidance of  
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Devineni Venkata Ramana & Dr.Hima Sekhar

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 2018-2019

**CERTIFICATE**

This is to certify that the Main Project entitled **"SOLAR ENERGY TRACKING WITH SUPERCAPACITOR AS ENERGY STORAGE"** is a bonafide work carried out by **K.Santosh Bhargav (15H71A04G2), P.Lakshmi Mythili (15H71A04D6), Ch.Vijaya Lakshmi(16H75A04J7), N.Anirudh Kumar (15H71A04C1)** in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

*G. A. Laxshmi*  
 (Mrs G Anantha Lakshmi)  
 Project Supervisor



*Goutam Kumar Gupta*  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department

*Dr. Y. Sudheer Babu*  
 (Dr. Y. Sudheer Babu)  
 Principal

**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
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 Devireddy Venkata Ramana & Dr. Hema Sekhar  
 MIC College of Technology  
 KANCHIACHERLA, Krishna District

*[Signature]*  
 Examiner 1

*[Signature]*  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"AUTOMATIC COACH POSITION SYSTEM"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

Ch.Sowndarya (15H71A04A4)

B. Rushini (15H71A04A0)

G.Kalki Srinivas (16H75A0419)

M.Vamsi (15H71A04B5)

Under the Esteemed Guidance of  
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Devineni Venkata Ramana & Dr.Hima Sekhar  
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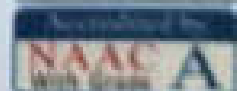
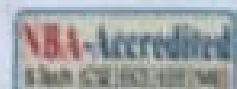
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2018-2019



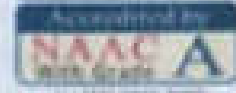
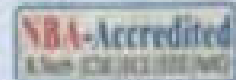
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By 15th March 2018  
Validated Institute

2018-2019

## CERTIFICATE

This is to certify that the Main Project entitled "Automatic Coach Position System" is a bonafide work carried out by Ch.Sowndarya(15H71A04A4), B.Roshini(15H71A04A0), G.Kalki Srinivas(16H75A0419), M.Vamsi(15H71A04B6) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

(Mr. T.M.S. Bharadwaj)  
Project Supervisor



(Dr. Goutam Kumar Gupta)  
Head of the Department

(Dr. Y. Sudheer Babu)

Principal

Dr. Y. SUDHEER BABU, Ph.D., JNTU  
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KANCHIKACHERLA, Krishna District

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"Wireless Controllable Stair Climbing Robot"**

Submitted to

Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

K. Pavan (15H71A0494)

N. Indira (15H71A0470)

P. Sai Dinesh Kumar (16H75A0421)

J. Navon Kumar (15H71A0490)

Under the Esteemed Guidance of  
**Dr. SAVITESH MADULIKA SHARMA, Ph.D.,**  
Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Devineni Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**

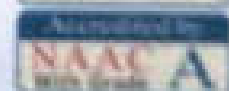
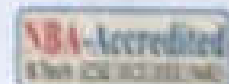
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AN ISO 9001:2015  
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2018-2019

**CERTIFICATE**

This is to certify that the Main Project entitled "Wireless Controllable Stair Climbing Robot" is a bonafide work carried out by K. Pavani(15H71A0494), N. Indira(15H71A0470), P. Sai Dinesh Kumar(16H75A0421), J. Naveen Kumar(15H71A0490) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

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(Dr. Savitesh Madolika Sharma)  
 Project Supervisor



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(Dr. Goutam Kumar Gupta)  
 Head of the Department

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(Dr. Y. Sudheer Babu)

Principal

Dr. Y. SUDHEER BABU, Ph.D, IITM  
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 Examiner 1

*(Handwritten signature)*  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**SIGN TO SPEECH CONVERSION SYSTEM FOR DISABLED PEOPLE**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

**G.NAGA HARIKA (15H71A04E2)**

**L.SATISH (15H71A04F4)**

**K.S.PRAKASH (15H71A04G7)**

Under the Esteemed Guidance of  
**Mr. K. THIRUPATHI RAO, M.Tech.**  
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2018-2019

**CERTIFICATE**

This is to certify that the Main Project entitled "SIGN TO SPEECH CONVERSION SYSTEM FOR MUTE PEOPLE" is a bonafide work carried out by G. Naga Harika (15H71A04E3), L. Satish (15H71A04F4) and K. S. Prakash (15H71A04G7), in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.



*Mr. K*  
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 (Mr. K. Thirupathi Rao)  
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*Dr. Y. Sudheer Babu*  
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*Examined*

*Examiner 2*

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"AUTOMATIC NETWORK FAILURE IDENTIFICATION IN RAILWAY  
TELECOMMUNICATION"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

**Submitted by**

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**A. BASAVA ANJANEYULU (15H71A0406)**

**R. SRI SAI MOUNIKA (15H71A0451)**

**A. NAVEEN REDDY (15H71A0402)**

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This is to certify that the Main Project entitled "AUTOMATIC NETWORK FAILURE IDENTIFICATION IN RAILWAY TELECOMMUNICATION" is a bonafide work carried out by **M. ANITHA (15H71A0402), A. BASAVA ANJENEYELU (15H71A0406), R. SRI SAI MOUNIKA (15H71A0451), A. NAVEEN REDDY (15H71A0432)** in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

*J. Naga Surekha*  
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 Project Supervisor



*Goutam Kumar Gupta*  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department

*Dr. Y. Sudheer Babu*

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Principal  
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*Examiner 1*  
 Examiner 1

*Examiner 2*  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"AGRITECH BOT"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

in

**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

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M. DELLI SAI KRISHNA (15H71A0412)

T. ANUSHA (16H75A0403)

B. JITESH KUMAR (16H75A0408)

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This is to certify that the Main Project entitled "AGRITECH BOT" is a bonafide work carried out by **P. GEETHANJALI (15H71AD017), M. DEEPA SAI KRISHNA (15H71AD012), T. ANUSHA (16H75AD003), R. JITESH KUMAR (16H75AD008)**, in partial fulfillment for the award of degree of **Bachelor of Technology in Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University Kakinada** during the year 2018-19

  
**(Mr. CH. LAKSHMANA)**  
 Project Supervisor



  
**(Dr. GOUTAM KUMAR GUPTA)**  
 Head of the Department

  
**(Dr. Y. SUDHEER BABU)**

**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
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 Examiner 1

  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"An Automatic Driver Drowsiness Alert System by using Raspberry-pi & GSM"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

K. Eelokya (15H71A0414)

G. Sofia (16H75A0412)

A. Venkatesh (15H71A0458)

B. Geeth Sagar (15H71A0415)

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2018-2019




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This is to certify that the Main Project entitled "An Automatic Driver Drowsiness Alert System by using Raspberry-pi & GSM" is a bonafide work carried out by K.Eelokya (15H71A0414), A.Venkatesh (15H71A0450), G.Sofia (16H75A0412), R.Geetha Sagar (15H71A0415) in partial fulfillment for the award of degree of Bachelor of Technology in **Electronics and Communication Engineering** of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Mr. A. Siva Rama Krishna)  
 Project Supervisor



  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department



(Dr. Y. Sudheer Babu)

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 KANCHIKACHERLA, Krishna District



  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**HUMAN TO MACHINE VOICE COMMUNICATION SYSTEM**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

K. SHYAM (15H71A0424)

M. DEEPIKA (15H71A0411)

V. ANUDEEP (15H71A0403)

E. GEETHA (15H71A0416)

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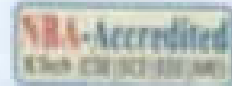
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As per the 2008  
 Criteria issued

**CERTIFICATE**

This is to certify that the Main Project entitled "HUMAN TO MACHINE VOICE COMMUNICATION SYSTEM" is a bonafide work carried out by K. SHYAM (15H71A0424), M. DEEPIKA (15H71A0411), V. ANUDEEP (15H71A0403), E. GEETHA (15H71A0416) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

(Mr. D. RAHUL)

Project Supervisor



(Dr. Goutam Kumar Gupta)

Head of the Department

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Principal

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"SPEECH SECURITY SYSTEM"**

Submitted to  
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in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

Sravanthi P (15H171A04A6)

Bhavya Sri A (16H175A0415)

Ramesh G (15H171A0499)

Venkat Reddy K (16H175A0425)

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2018-2019



**CERTIFICATE**

This is to certify that the Main Project entitled "Speech Security System" is a bonafide work carried out by Sravanthi P (15H71A0446), Bhavya Sri A (16H75A0415), Ramesh G (15H71A0499), Venkat Reddy K (16H75A0425) in partial fulfillment for the Award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

(Mr. D. Rahul)

Project Supervisor



(Dr. Goutam Kumar Gupta)

Head of the Department

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 KANCHIKACHERLA, Krishna District

Examiner 1

05/04/2019.

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"AUTOMATIC BUS BILLING SYSTEM USING  
RFID TECHNOLOGY"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

S. Narven Babu(15H71A0489)

B. Aruna(15H71A0482)

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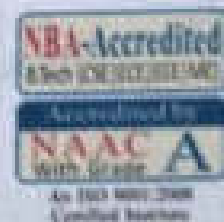
Under the Esteemed Guidance of  
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



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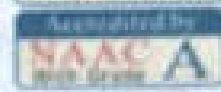




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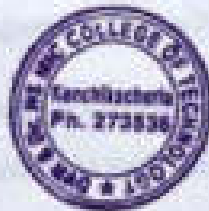



SAAC A  
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**CERTIFICATE**

This is to certify that the Main Project entitled "AUTOMATIC BUS BILLING SYSTEM USING RFID TECHNOLOGY" is a bonafide work carried out by S. Navem Babu (15H71A0489), B. Aruna (15H71A0462), Ch. Manesh Mamatha (15H71A0482), R.Uday(16H75A0424) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Dr. Goutam Kumar Gupta)  
 Project Supervisor



  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department

  
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 Examiner-1

  
 Examiner-2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"SIGNAL CONTROLLER IN FOG AND OBSTACLE DETECTOR"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

**Submitted by**

**K.Geetha Madhuri (15H71A0467)**

**M.Sai Charan (15H71A04A1)**

**M.N.S.Indu (15H71A0485)**

**A.Kranthi Kumar (15H71A0475)**

**Under the Esteemed Guidance of**  
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**2018-2019**





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2018-2019





**CERTIFICATE**

This is to certify that the Main Project titled "SIGNAL CONTROLLER IN FOG AND OBSTACLE DETECTOR" is a bonafide work carried out by K.Geetha Madhuri (15H71A0467), M.Sai Charan (15H71A04A1), M.N.S.Indu (15H71A0485), A.Kranthi Kumar (15H71A0475) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
 (Mr. G. Kiran Kumar)  
 Project Supervisor




  
 (Dr. Goutam Kumar Gupta)  
 Head of the Department

  
 (Dr. Y. Sudheer Babu)  
 Principal

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 Examiner 1

  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"BLUETOOTH VOICE CONTROLLED FIRE EXTINGUISHER  
ROBOT"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

DIVYA LATHA,J (15H71A04C6)

MADHAVI PRIYA,P(16H75A0431)

VEERA SWAMY,CH (15H71A04H2)

GIRISH KUMAR,V (15H71A04C7)

Under the Esteemed Guidance of  
**Mr.TMS.BHARADWAJ ,M.Tech.**  
Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



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This is to certify that the Main Project entitled "BLUETOOTH VOICE CONTROLLED FIRE EXTINGUISHER ROBOT" is a bonafide work carried out by DIVYALATHA.J(15H71A04C6),MADHAVIPRIYA.P(16H75A0431),VEERASWAMY.CH(15H75A04H2),GIRISH KUMAR.V(15H71A04C7) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"REAL TIME LOCATION OF LOCOMOTIVES"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

F.BHAGYA SRI(16H75A0427)

J. RAKESH (15H71A0409)

R.KAVYA SRI(15H71A04D2)

R.REVANTH KUMAR (15H71A04F1)

Under the Esteemed Guidance of  
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This is to certify that the Main Project entitled "REAL TIME LOCATION OF LOCOMOTIVES" is a bonafide work carried out by P.BHAGYA SRI (16H75A0427), J.RAKESH (15H71A04E9), R.KAVYA SRI (15H71A04D2), B.REVANTH KUMAR (15H71A04F1) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

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*[Signature]*  
 Examiner I

*[Signature]*  
 Examiner I

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"AUTOMATIC SPEED BREAKER SYSTEM"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
**In**  
**ELECTRONICS & COMMUNICATION ENGINEERING**

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M. Sri Ramya (15H71A0450)

Y. Sri Lakshmi (15H71A0453)

R. Jaya Aditya (15H71A0420)

Under the Esteemed Guidance of  
**Mr. B. Anil Babu, M.Tech.,**  
Assistant Professor

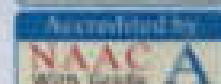
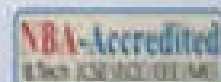
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 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"TOXIC GASES DETECTION IN RAILWAYS"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

A. SAHITHI (15H71A0441)

CH. RAJESH (15H71A0438)

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This is to certify that the Main Project entitled "Toxic Gases Detection in Railways" is a bonafide work carried out by A.Sahithi(15H71A0441), CH.Rajesh(15H71A0439), CH.Saidulu(15H71A0443), T.Sai Tejaswi(16H75A0411) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"IOT BASED SMART SCHOOL BUS MONITORING"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

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S. LAKSHMI NARAYANA (15H71A0478)

CH. NAGA JYOTHI (15H71A0486)

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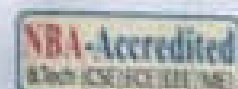
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This is to certify that the Main Project entitled "IOT BASED SMART SCHOOL BUS MONITORING" is a bonafide work carried out by S. VIMALA (15H71A0488), S. LAKSHMI NARAYANA (15H71A0478), CH. NAGA JYOTHI (15H71A0486), M. CHAITANYA KUMAR (15H71A0463) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
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Project Supervisor



  
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(Dr. Y. Sudheer Babu)

Principal

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Examiner I

  
Examiner II

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"DESIGN OF INVERTED E-SHAPED TEXTILE ANTENNA FOR  
MEDICAL APPLICATIONS"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

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CH. DURGA PRASAD (15H71A0413)

O. ANUSHA (16H75A0402)

K. NAGA DURGA BHANU PRASANTH (16H75A0409)

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2018-2019

**CERTIFICATE**

This is to certify that the Main Project entitled "DESIGN OF INVERTED E-SHAPED TEXTILE ANTENNA FOR MEDICAL APPLICATIONS" is a bonafide work carried out by G.NAVYA(15H71A0604), CHIDURGAPRASAD(15H71A0613), O.ANUSHA(16H75A0402), and K.NAGADURGABHANUPRASANTH(16H75A0409) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
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 Project Supervisor



  
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Principal  
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 Examiner 1

  
 Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"ANTI-POACHING ALARM SYSTEM FOR TREES IN FOREST  
USING WIRELESS SENSOR NETWORKS"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

F. Venkata Naga Sai Teja Sri (15H71A0457)

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D. Sailusha (15H71A0444)

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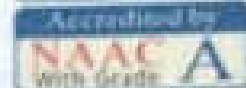






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**CERTIFICATE**

This is to certify that the Main Project entitled "ANTI-POACHING ALARM SYSTEM FOR TREES IN FOREST USING WIRELESS SENSOR NETWORKS" is a bonafide work carried out by P. VENKATA NAGA SAI TEJA SRI (15H71A0457), S.SUCHARITHA (16H75A0413), D. SAILUSHA (15H71A0444), M. ANILKUMAR (16H75A0401) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
(Mrs. G. ANANTHA LAKSHMI)  
Project Supervisor



  
(Dr. GOUTAM KUMAR GUPTA)  
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YANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"Moving Vehicle Detection for Traffic Count"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

Jothikak (15H71A0422)

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B. Jagadheesh Babu (16H75A0406)

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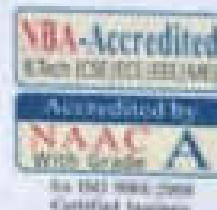
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This is to certify that the Main Project entitled "Moving Vehicle Detection for Traffic Count" is a bonafide work carried out by Juthika, K(15H71A0422), SriLatha, D(15H71A452), B. Jagadeesh Babu(16H75A0406), T. Sivaji (15H71A0447) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

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 Project Supervisor



(Dr. Goutam Kumar Gupta)  
 Head of the Department

(Dr. Y. Sudheer Babu)

Principal

**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
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**KANCHIKACHERLA, KRISHNA DISTRICT**

Examiner 1

Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"LUNG CANCER DETECTION USING CT-SCAN IMAGE"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

**B. YESWANTHI (15H71A04C9) M. CHENNAKESHAVA RAO (15H71A0464)**  
**T. KUMAR (14H71A0488)**

Under the Esteemed Guidance of  
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## CERTIFICATE

This is to certify that the **Main Project** entitled "**LUNG CANCER DETECTION USING CT-SCAN IMAGE**" is a bonafide work carried out by **B. YESWANTHI (15H71A04C0), M. CHIENNAKESHAVA RAO (15H71A0464), T. KUMAR (14H71A0488)** in partial fulfillment for the award of degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING** of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
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Project Supervisor



  
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Examiner 1

  
Examiner 2

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**



**"Pollution Alert to Passengers in Train"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY  
in  
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

MAHESH KUMAR K(15H71A0481)

DHEERAJ KRISHNA G(15H71A0465)

VENKATESWAR RAO J(15H71A0487)

SAI SURYA V(16H75A0422)

Under the Esteemed Guidance of  
**Mr. K. SATISH, M. Tech.,**  
Assistant Professor

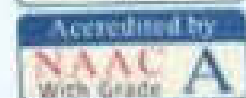
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**



*Devineni Venkata Ramana & Dr.Hima Sekhar*  
**MIC College of Technology**

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**2018-2019**



As per ISO 9001:2008  
Certified Institute



Devinees Venkata Ramana & Dr Hima Sekhar  
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As per 1001/2008  
Certified Institute

**CERTIFICATE**

This is to certify that the Main Project entitled "Pollution Alert to Passengers in Train" is a bonafide work carried out by Mahesh Kumar K(15H71A0481), Venkateswar Rao J(15H71A04B7), Dheeraj Krishna G(15H71A0465) and Sai Surya V(16H75A0422) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
(Mr. K. SATISH)  
Project Supervisor



  
(Dr. Goutam Kumar Gupta)  
Head of the Department

  
(Dr. Y. Sudheer Babu)

Principal

Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devinees Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



## “AUTONOMOUS LIBRARY”

Submitted to

Jawaharlal Nehru Technological University Kakinada

in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

N.TEJASWINI (15H71A04B3)

M.VASANTHI (15H71A04B6)

SK.RAHEEM BASHA (15H71A0497)

M.OMKAR SAI KRISHNA (15H71A0493)

Under the Esteemed Guidance of

**Mrs. V. NAGARANI, M.Tech.,**

*Assistant Professor*

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Deviveni Venkata Ramann & Dr.Hima Sekhar

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2018-2019



As on 31st March 2018  
Certified Institute





Devineni Venkata Ramana & Dr.Hima Sekhar  
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2018-2019




## CERTIFICATE

This is to certify that the Main Project entitled "AUTONOMOUS LIBRARY" is a bonafide work carried out by N.Tejaswini (15H71A04B3), M.Vasanthi (15H71A04B6), SK.Raheem hasha (15H71A0497), M.Omkar sai krishna (15H71A0493) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
(Mrs V. NAGARANI)  
Project Supervisor



  
(Dr. Goutam Kumar Gupta)  
Head of the Department

  
(Dr. Y. Sudheer Babu)  
Dr. Y. SUDHEER BABU, Ph.D, IITB  
Principal, I.

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"UNDERGROUND CABLE FAULT DETECTION"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
**in**  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

K. Amrutha valli (15H71A0461)

G. Lakshmi (15H71A0477)

Sk. Rabbani (16H75A0420)

J. Ramesh babu (14H71A04A2)

Under the Esteemed Guidance of  
**Mrs. S. RAMADEVI, M. Tech.,**  
Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Devineni Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**

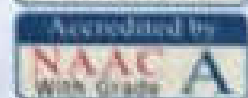
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)

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2018-2019



As per NAAC 2008  
Criteria



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**NBA-Accredited**  
B.Tech (ECE/EEE/ME)

Accredited by  
**NAAC**  
With Grade **A**

An ISO 9001:2008  
Certified Institute


2018-2019

**CERTIFICATE**

This is to certify that the Main Project entitled "Underground cable fault detection" is a bonafide work carried out by K. Amrutha valli(15H71A0461), G. Lakshmi (15H71A0477), Sk. Rabbani(16H75A0420), J. Ramesh babu(14H71A04A2) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

  
(Mrs. SRAMADEVI)  
Project Supervisor



  
(Dr. Goutam Kumar Gupta)  
Head of the Department

  
(Dr. Y. Sudheer Babu)

Principal

Dr.Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

  
Examiner 1

  
Examiner 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**"COLOR BASED PRODUCT SORTING MACHINE"**

Submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**  
in  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted by

K. Naveen (15H71A04E5)

D. Mani Harika (15H71A04D9)

CH. Priyanka (16H75A0433)

K. V. Prasad Kumar (16H75A0436)

Under the Esteemed Guidance of  
**Mr. K. SATEESH., M. Tech.,**  
Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Devineni Venkata Ramana & Dr.Hima Sekhar  
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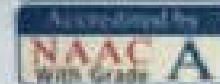
2018-2019





Deviveni Venkata Ramana & Dr.Hima Sekhar  
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As 19th April 2008  
Certified Institute

2018-2019

### CERTIFICATE

This is to certify that the Main Project entitled "COLOR BASED PRODUCT SORTING MACHINE" is a bonafide work carried out by K. Naveen (15H71A04E5), CH. Priyanka (16H75A0433), D. Mani Harika (15H71A04D9), K. V. Prasad Kumar (16H75A0436) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2018-19.

(Mr. K. Sateesh)  
Project Supervisor



(Dr. Goutam Kumar Gupta)  
Head of the Department

(Dr. Y. Sudheer Babu)

Principal

**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
**PRINCIPAL**

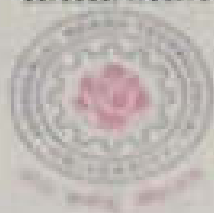
Deviveni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

Examiner 1

Examiner 2

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**

**KAKINADA**



**E-HEALTH CARE SYSTEM**

**A Project Report submitted to**

**Jawaharlal Nehru Technological University Kakinada**

**in partial fulfilment of the requirements for the award of the degree of**

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

**By**

**B.Anitha(15H71A05C2)**

**K.Chandrika(15H71A05C9)**

**G.Manasa(15H71A05E0)**

**D.Madhav(15H71A05D9)**

*Under the Esteemed Guidance of*

**Ms.K.Priyanka**

**Assistant Professor**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



**Devitem Venkata Rammata & Dr Himu Sekhar**  
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### CERTIFICATE

This is to certify that the project work entitled "E-HEALTH CARE SYSTEM" is a bonafied work carried out by Ms.B.Anitha(15H71A05C2), Ms.K.Chandrika(15H71A05C9), Ms.G.Manasa(15H71A05E0), Mr.D.Madhav(15H71A05D9) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

**Project Guide**  
(Ms.K.Priyanka)



**Head of the Department**  
(Dr.A.Jayalakshmi)

**Principal**  
(Dr.Y.Sudheer Babu)  
**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
PRINCIPAL

Devireddy Venkata Ramana & Dr. Hema Sekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**ONLINE ASSESSMENT**

A project report Submitted to the  
Jawaharlal Nehru Technological University, Kakinada  
in partial fulfillment for the Award of the degree of  
**BACHELOR OF TECHNOLOGY**  
**IN**  
**COMPUTER SCIENCE & ENGINEERING**

*By*

G Sai Rohit (15H71A0537)

M Jagadish (15H71A0512)

M Bhavana Phani (15H71A0506)

S Sai Raghavendra (15H71A0536)

B Krishna Sai (15H71A0553)

*Under the Esteemed Guidance of*

**Dr.G Kalyani**

**Professor**

**Department of Computer Science & Engineering**



**Devineni Venkata Ramana & Dr Hima Sekhar**  
**MIC College of Technology**

Accredited by NBA: EEE|ME|CSE|ECE & NAAC with 'A' Grade  
Kanchikuchurta - 521180, Krishna Dist. A.P.

2018-19







Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**


Accredited by NBA: EEE/MEE/SE/EE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



**CERTIFICATE**

This is to certify that the project report entitled "Online Assessment" being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Computer Science & Engineering** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **G Sai Rohit (15H71A0537), M Jagadish (15H71A0512), M Bhavana Phani (15H71A0506), S Sai Raghavendra (15H71A0536), B Krishna Sai (15H71A0553)** under my guidance during the academic year 2015-2016 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
Dr. G. Kalyani  
(Project Guide)

  
Dr. A. Jaya Lakshmi  
(Head of the Department)

Examiner



  
Dr. Y. SUDHEER BABU  
(Principal)

Dr. Y. SUDHEER BABU  
PRINCIPAL  
Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**ONLINE STUDENT COUNSELING REPORT**

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfilment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**

**IN  
COMPUTER SCIENCE AND ENGINEERING**

By

D. Yamini (15H71A05H7)

V.Hemanth (15H71A05D3)

B. Rini Pravalika (15H71A05F2)

M. Chandu Charan (15H71A05D0)

*Under the Esteemed Guidance of*

**Mr. B. AJAY KUMAR**

**Associate Professor**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



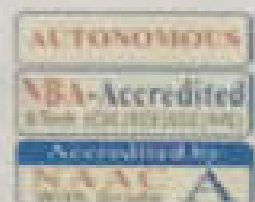
Devineni Venkata Ramana & Dr.Hima Sekhar  
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2018-2019



Devineeni Venkata Ramana & Dr Himasekhar  
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## CERTIFICATE

This is to certify that the project work entitled "ONLINE STUDENT COUNSELING REPORT" is a bonafied work carried out by Ms. D.Yamini (15H71A05H7), Mr. V. Hemanth (15H71A05D3), Ms. B. Rini Pravallika (15H71A05F2), Mr. M. Chandu Charan (15H71A05D0) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

Mr. B. AJAY KUMAR  
(Project Guide)



Dr. A. JAYALAKSHMI  
(Head of the Department)

Dr. Y.SUDHEER BABU  
(Principal)

Dr. Y. SUDHEER BABU, Ph.D, JNTU  
PRINCIPAL

Devineeni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**BLOOD BANK MANAGEMENT APPLICATION**

A project submitted to

Jawaharlal Nehru Technological University Kakinada

in partial fulfillment of the requirements for the award of the degree for

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE & ENGINEERING**

**By**

**K. VENU BABU (15H71A0558)**

**D. SREE DURGA (15H71A0544)**

**A. SAI PRASANNA (15H71A0535)**

**V. PRAVALLIKA (15H71A0527)**

**Under the Esteemed Guidance of**

**Mrs. A. ANURADHA**

**Assistant Professor**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

*Devineni Venkata Ramana & Dr. Hima Sekhar*

**MIC College of Technology**

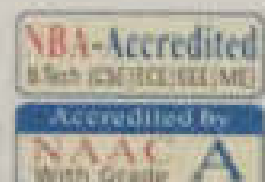
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**2018-2019**



As per NAAC 2008  
Certified Institute

Devineni Venkata Ramana & Dr. Himra Sekhar



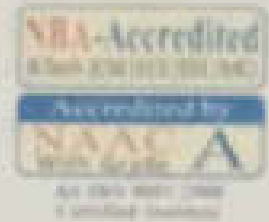
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2018-2019

## CERTIFICATE


This is to certify that the project report entitled "BLOOD BANK MANAGEMENT APPLICATION" which is bonafide work carried out by K.Venu Babu (15H71A0558), D.Sree Durga(15H71A0544), A.Sai Prasanna(15H71A0535), V.Pravallika (15H71A0527) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinda during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in the respect of project work prescribed for the degree.

  
A. Anuradha  
(Project Guide)

  
Dr. A. Jaya Lakshmi  
(Head of the Department)

Examiner



  
Dr. Y. Sudheer Babu  
(Principal)

**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**CLUSTERING QUALITY IMPROVEMENT OF K-MEANS  
USING PARTICLE SWARM OPTIMIZATION**

A project report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment for the Award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
COMPUTER SCIENCE & ENGINEERING**

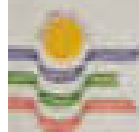
*By*

Swathi. P (15H71A0550)  
Rohit Singh Rajaputra (15H71A0532)

M. Sai Venkatesh (15H71A0538)  
Mythri.P (15H71A0522)

Under the Esteemed Guidance of  
**Mrs.N.V.MAHA LAKSHMI**  
Assistant Professor

**Department of Computer Science & Engineering**



**Devineni Venkata Ramana & Dr Hima Sekhar**  
**MIC College of Technology**

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Kanchikacherla - 521180, Krishna Dist. A.P.



2018-19



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA-EEE|ME|CSE|ECE & NAAC with 'A' Grade  
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**CERTIFICATE**

This is to certify that the project report entitled "Clustering Quality Improvement of K-Means Using Particle Swarm Optimization" being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Computer Science & Engineering** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **Swathi.P (15H71A0550)**, **M. Sai Venkatesh (15H71A0538)**, **RohitSingh Rajaputra (15H71A0532)**, **Mythri.P (15H71A0522)** under my guidance during the academic year 2015-2016 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

**N. V. Maha Lakshmi**  
(Project Guide)

**Dr. A. Jaya Lakshmi**  
(Head of the Department)

Examiner



**Dr. Y. SUDHEER BABU**  
(Principal)  
**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
**KANCHIKACHERLA, Krishna District**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**Exploratory Data Analysis of SVD based Movie Recommendation Systems**

A project report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
COMPUTER SCIENCE & ENGINEERING**

*By*

Ch. Anusha (15H71A0502)  
G. Srihitha (15H71A0548)

D. Lavanya (15H71A0518)  
K. Venkata Krishna(15H71A0556)

*Under the Esteemed Guidance of*  
**Mrs. V. LAKSHMI CHETANA**  
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2018-19







Devineni Venkata Ramana & Dr Himma Sekhar  
**MIC College of Technology**

Accredited by NBA: ETE/MECSE/JCT & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



**CERTIFICATE**

This is to certify that the project report entitled "Exploratory Data Analysis of SVD based Movie Recommendation Systems" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Computer Science & Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by Ch. Anusha (15H71A0502), D. Lavanya (15H71A0518), G. Srihitha (15H71A0548), K. Venkata Krishna (15H71A0556) under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

V. Lakshmi Chetana  
(Project Guide)

Dr. A. Jaya Lakshmi  
(Head of the Department)

Examiner



Dr. Y. SUDHEER BABU  
(Principal)

**Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL**

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**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**SENTIMENT ANALYSIS  
&  
FAKE-ID DETECTION ON TWITTER DATA**

A project report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
COMPUTER SCIENCE & ENGINEERING**

*By*

MOUNIKA G (15H71A0521)

GOPI KIRAN K (15H71A0508)

SIVASANKAR T (15H71A0541)

VIJAY BABU V (15H71A0559)

*Under the Esteemed Guidance of*  
**Mr. B.VENUGOPAL**  
Assistant Professor

**Department of Computer Science & Engineering**



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA, EEE/ME/CSE/ICE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



2018-19



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Kanchikacherla - 521180, Krishna Dist. A.P.



### CERTIFICATE

This is to certify that the project report entitled " **SENTIMENT ANALYSIS & FAKE-ID DETECTION ON TWITTER DATA** " being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Computer Science & Engineering** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **Ms. Mounika. G (15H71A0521)**, **Mr. Gopi Kiran. K (15H71A0508)**, **Mr. Sivasankar. T (15H71A0541)**, **Mr. Vijay Babu. V (15H71A0559)** under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

**Mr. B. Venugopal**  
(Project Guide)

  
( Examiner )

**Dr. A. Jaya Lakshmi**  
(Head of the Department)

**Dr. Y. SUDHEER BABU**  
(Principal)

**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
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**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**COLLEGE WEBSITE**

A Project Report submitted to

**Jawaharlal Nehru Technological University Kakinada**

in partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY**

IN

**COMPUTER SCIENCE AND ENGINEERING**

by

**K. KRISHNA PRASANNA (15H71A0577)**

**K. KEERTHANA (15H71A0576)**

**D. ANUSHA KIRANMAIE (15H71A0563)**

**V. PRANEENDRA KUMAR (15H71A0590)**

Under the Guidance of

**Mr. D. VARUN PRASAD**

Associate Professor

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

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Devineni Venkata Ramana & Dr Hima Sekhar  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "COLLEGE WEBSITE" is a bonafied work carried out by Ms. K.KRISHNA PRASANNA(15H71A0577), Ms. K.KEERTHANA (15H71A0576), Ms. DANUSHA KIRANMAIE(15H71A0563), Mr. V.PHANEENDRA KUMAR(15H71A0590) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

**Project Guide**  
(Mr. D. Varun Prasad)



**Head of the Department**  
(Dr. A. Jaya Lakshmi)

**Principal**  
(Dr. Y. Sudheer Babu )  
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PRINCIPAL

**External Examiner**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



STUDENT ALUMNI

A project submitted to

Jawaharlal Nehru Technological University Kakinada

in partial fulfillment of the requirements for the award of the degree for

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE & TECHNOLOGY**

**By**

Bindu Bhargavi P (15H71A0504)

Bhuvan Chandra S(15H71A0503)

Lohitha J (15H71A0520)

Sai Krishna Ch (15H71A0534)

*Under the Esteemed Guidance of*

**Lakshmi Chetana V**

**Assistant Professor**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

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**2018-2019**



Devineni Venkata Ramana & Dr.Hima Sekhar



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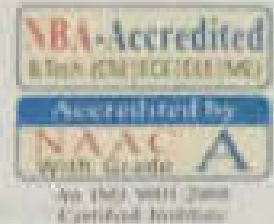
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## CERTIFICATE

This is to certify that the project report entitled "STUDENT ALUMNI" which is bonafide work carried out by P. Bindu Bhargavi (15H71A0504), S. Bhuvan Chandra (15H71A0503), J.Lohitha (15H71A0520), Ch. Sai Krishna (15H71A0534) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in the respect of project work prescribed for the degree.

V. Lakshmi Chetana

(Project Guide)

Dr. A. Jaya Lakshmi

(Head of the Department)

Examiner



Dr. Y. Sudheer Babu

(Principal)

Dr. Y. SUDHEER BABU, Ph.D., JNTU,  
PRINCIPAL

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**INVIGILATION MANAGEMENT SYSTEM**

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
COMPUTER SCIENCE AND ENGINEERING**

by

**D. SARADHI (15H71A05A2)  
B. SARALA (15H71A05A3)**

**P.N SUPRAJA (15H71A0585)  
I. DINESH (15H71A0569)**

Under the Guidance of

**Mr. B. Kalyan Chakravarthy**  
Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**Devineni Venkata Ramana & Dr.Hima Sekhar**

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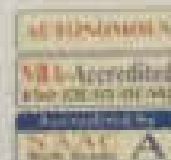
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**2018-2019**







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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### CERTIFICATE

This is to certify that the project work entitled "INVIGILATION MANAGEMENT SYSTEM" is a bonafied work carried out by Mr. SARADHIL D (15H71A05A2), Ms. NAGA SUPRAJA. P (15H71A0585), Ms. SARALA. B (15H71A05A3), Mr. DINESH. I (15H71A0569) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

  
Project Guide

(Mr. B. Kalyan Chakravarthy)

  
Head of the Department  
(Dr. A. JayaLakshmi)

  
External Examiner

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



## ONLINE PARKING BOOKING SYSTEM

A project report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

### BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE & ENGINEERING

*By*

Ch. Rajeswari (15H71A0529)

K. Jyothirmai (15H71A0514)

D. Lohitha (15H71A0519)

V. Rohini (15H71A0531)

*Under the Esteemed Guidance of*

Mr. B Venugopal

Assistant Professor

Department of Computer Science & Engineering

Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA: EEE/ME/CSE/ECE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.

2018-19





Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA, UETME/CSE/ICE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



**CERTIFICATE**

This is to certify that the project report entitled "ONLINE PARKING BOOKING SYSTEM" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Computer Science & Engineering from JawaharlalNehru Technological University, Kakinada, is a bonafide work done by, Ch. Rajeswari (15H71A0529), D. Lohitha (15H71A0519), K. Jyothirmal (15H71A0514), V. Rohini (15H71A0531) under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

Mr. B. Venugopal  
(Project Guide)

Dr. A. Jaya Lakshmi  
(Head of the Department)

Examiner



Dr. Y. SUDHEER BABU  
(Principal)

Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL  
Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District



**An Intelligent Adaptive Assessment System**

A Project Report submitted to

**Jawaharlal Nehru Technological University Kakinada**

in partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY**

IN

**COMPUTER SCIENCE AND ENGINEERING**

by

N. RAMYASRI (15H71A0593)

CH. CHANDRA SEKHAR (15H71A0567)

P. SNEHA (15H71A05A9)

K. SATYA SAI (15H71A05A5)

Under the Guidance of

**Mr. K.MAHANTHIL**

Assistant Professor

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA: EEE|ME|CSE|ECE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.

2018-2019





Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA/LLM/MEC/SEETCE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**CERTIFICATE**

is to certify that the project report entitled "AN INTELLIGENT ADAPTIVE ASSESSMENT STEM" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Computer Science and Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by Ms. RAMYASRI N (15H71A0593), Mr. CHANDRA KHAR, CH (15H71A0580), Ms. SNEHA, P (15H71A05A9), Mr. SATYA SAI, K(15H71A05A5) under guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
K. Mahanthi  
(Project Guide)

  
Dr. A. Jaya Lakshmi  
(Head of the Department)

  
External Examiner

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**DOCUMENTATION DIGI LOCKER**

A Project Report submitted to

**Jawaharlal Nehru Technological University Kakinada**

in partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY**

IN

**COMPUTER SCIENCE AND ENGINEERING**

by

**N.ROOPA NAGA SRI (15H71A0595)**

**R.SAI PAVANI (15H71A0596)**

**B.SWETHA (15H71A05B3)**

**A.PRAVEEN KUMAR (15H71A0592)**

Under the Esteemed Guidance of

**Mr. K.MAHANTHI**  
Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**Devineni Venkata Ramana & Dr Hima Sekhar**  
**MIC College of Technology**

Accredited by NBA: EEF/ME/CS/ECE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.

2018-2019





Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

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Nanchikacherla - 521180, Krishna Dist. A.P.



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "DOCUMENTATION DIGI LOCKER" is a bonafied work carried out by **Ms. N.ROOPA NAGA SRI(15H71A0595), Ms. R.SAI PAVANI (15H71A0596), Ms. B.SWETHA(15H71A05B3), Mr. A.PRAVEEN KUMAR(15H71A0592)** in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

*K. Mahanthi* 21/3/19  
**Mr. K. Mahanthi**  
(Project Guide)

*Jaya Lakshmi*  
**Dr. A. Jaya Lakshmi**  
(Head of the Department)

*[Signature]*  
**External Examiner**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**MIC-LOG**

A Project Report submitted to

**Jawaharlal Nehru Technological University Kakinada**

in partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

by

**G.VENKATA SUDHARSAN REDDY (15H71A05B6)**  
**G.YOGITHA YAMINI (15H71A05C0)**  
**CHLAYYAPPA (15H71A0565)**  
**G.SHIRDI SAINATH (15H71A05A6)**

Under the Guidance of

**MS. D. MADHAVI**

Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**Devineni Venkata Ramana & Dr.Hima Sekhar**

**MIC College of Technology**

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**2018-2019**







Devineni Venkata Ramana & Dr. Hima Sekhar  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "MS-LOG" is a bonafied work carried out by **Mr. G.VENKATA SUDHARSAN REDDY (15H71A05B6)**, **Ms. G.YOGITHA YAMINI (15H71A05C0)**, **Mr. CHAYYAPPA (15H71A0565)**, **Mr. G.SHIRDI SAI NADH (15H71A05A6)** in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

**Project Guide**  
(Ms.D.Madhavi)



**Head of the Department**  
(Dr. A. Jaya Lakshmi)

**Dr. Y. Sudheer Babu**  
(Principal)

**External Examiner**

**Dr. Y. SUDHEER BABU, Ph.D, IITB**  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**BUS ALLOTMENT ALERT SYSYTEM**

A Project Report submitted to

Jawaharlal Nehru Technological University Kakinada

in partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY**

IN

**COMPUTER SCIENCE AND ENGINEERING**

by

N. KUSUMA (15H71A0578)

CH. SIRI DIVYA (15H71A05A8)

Y. ARCHANA (15H71A0564)

V. MANOJ (15H71A0581)

Under the Guidance of

**Mr. T. Krishnamachari**

Assistant Professor

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Devineni Venkata Ramana & Dr. Himu Sekhar

**MIC College of Technology**

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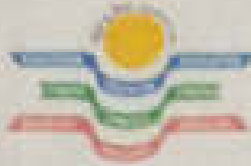
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2018-2019





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2018, 2019



## CERTIFICATE

This is to certify that the project work entitled "BUS ALLOTMENT ALERT SYSTEM" is a bonafied work carried out by Ms.KUSUMA.N(15H71A0578) , Ms.SIRI DIVYA.CH(15H71A05A8), Ms.ARCHANA.Y(15H71A0564), Mr. MANOJ. V (15H71A0581) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

  
Project Guide  
(T. Krishnamachari)

  
Head of the Department  
(Dr. A. Jaya Lakshmi)





Principal  
(Dr. Y. Sudheer Babu)

  
External Examiner

Dr. Y. SUDHEER BABU, Ph.D, IITM  
PRINCIPAL

Devineni Venkata Ramana & Dr. Himu Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**

**KAKINADA**



**STUDENT ACTIVITIES MANAGEMENT SYSTEM**

A Project Report submitted to

**Jawaharlal Nehru Technological University Kakinada**

in partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

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**U. Jayanthi (15H71A05D5)**

**Sk. Salma Tehseen (15H71A05G1)**

**M. Sai Ram (15H71A05G0)**

**Y. Sai Rohith (15H71A05F5)**

Under the Guidance of

**Mrs. K. Priyanka**

Assistant Professor

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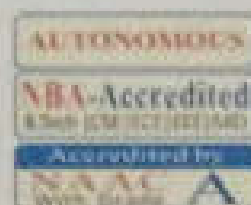
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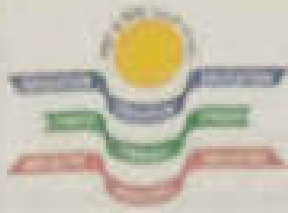
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Devireddy Venkata Ramana & Dr. Hitesh Sekhar  
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### CERTIFICATE

This is to certify that the project work entitled "STUDENT ACTIVITIES MANAGEMENT SYSTEM" is a bonified work carried out by Ms. U. Jayanthi (15H71A05D5), Ms. Sk. Salma Tehseen (15H71A05G1), Ms. M. Sai Ram (15H71A05G0), Mr. V. Sai Rohith (15H71A05F5) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

**Project Guide**

(Ms. K. Priyanka)



**Head of the Department**

(Dr. A. Jayalakshmi)

**Principal**

(Dr. Y. Sudheer Babu)

**Dr. Y. SUDHEER BABU, Ph.D., IITB**  
PRINCIPAL

Devireddy Venkata Ramana & Dr. Hitesh Sekhar  
**MIC College of Technology**  
KANCHERLA, N.T. DISTRICT

**Examiner**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**ON ROAD VEHICLE BREAKDOWN ASSISTANCE FINDER**

*A Project Report submitted to*

*Jawaharlal Nehru Technological University Kakinada*

*in partial fulfillment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

*by*

**SK. HANEEFA BANU (15H71A0571)**

**CH. SILPA (15H71A05A7)**

**B. SANDEEP (15H71A05A0)**

**T. MURALI (15H71A0582)**

**B. VIKRAM (15H71A05B8)**

*Under the Guidance of*

**Ms. K. VINAYA SREE BAI**

*Assistant Professor*

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

*Devineni Venkata Ramana & Dr.Hima Sekhar*

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**2018-2019**





Devineeni Veekata Ramana & Dr.Hima Sekhar  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "ON ROAD VEHICLE BREAKDOWN ASSISTANCE FINDER" is a bonafide work carried out by Ms. HANEEFA BANUSK (15H71A0571), Ms. SILPA.CH (15H71A05AT), Mr. SANDEEP.B (15H71A05A0), Mr. MURALLI (15H71A0582), Mr. VIKRAMLT (15H71A05B8) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project is approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

  
Project Guide

(Ms. K. Vinaya Sree Bai)

  
Head of the Department  
(Dr. A. Jaya Lakshmi)



Principal

(Dr. Y. Sudheer Babu)

Dr. Y. SUDHEER BABU, Ph.D, IITM

Principal

Devineeni Veekata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIRACHARLA, Krishna District



  
External Examiner

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**SMART WEARABLE: WOMEN SECURITY SYSTEM**

A Project Report submitted to  
**Jawaharlal Nehru Technological University Kakinada**  
in partial fulfillment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
**IN**  
**COMPUTER SCIENCE AND ENGINEERING**

by

**D. CHANDI** (15H71A0566)  
**SK. SULTHANA** (15H71A05B2)  
**B. SAI SWETHA** (15H71A0598)  
**D. SAI SARATH** (15H71A0597)

Under the Guidance of  
**Ms. M.MADHAVI**  
Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

*Devineni Venkata Ramana & Dr.Hima Sekhar*



**MIC College of Technology**

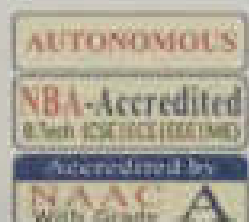
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**2018-2019**







Devireddy Venkata Ramana & Dr. Himma Sekhar

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### CERTIFICATE

This is to certify that the project work entitled "SMART WEARABLE: WOMEN SECURITY SYSTEM" is a bonafied work carried out by Ms. CHANDI D (15H71A0566), Ms. SULTHANA SK (15H71A0B2), Ms. SAI SWETHA. B (15H71A0598), Mr. SAI SARATH. D (15H71A0597) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

  
Project Guide

(Ms. M. Madhavi)



  
Head of the Department

(Dr. A. Jaya Lakshmi)



Principal

(Dr. Y. Sudheer Babu)

Dr. Y. SUDHEER BABU, Ph.D., IITM  
PRINCIPAL

Devireddy Venkata Ramana & Dr. Himma Sekhar  
MIC College of Technology  
KANCHIKACHARLA, Krishna District

  
External Examiner

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



**ONLINE EVENT MANAGEMENT SYSTEM**

A project report submitted to

Jawaharlal Nehru Technological University Kakinada

in partial fulfillment of the requirements for the award of the degree for

**BACHELOR OF TECHNOLOGY  
IN  
COMPUTER SCIENCE & TECHNOLOGY**

By

Saranya Mounika V (15H71A0540)  
Jaya Durga K(15H71A0513)

Kavya M(15H71A0516)  
Srikanth K (15H71A0549)

*Under the Esteemed Guidance of*

**Mr. U GANESH NAIDU**  
Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA: EE/ME/CSE/ECE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



2018-2019



Devineni Venkata Ramana & Dr Himma Sekhar  
**MIC College of Technology**

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Kanchikacherla - 511181, Krishna Dist. A.P.



**CERTIFICATE**

This is to certify that the project report entitled " **ONLINE EVENT MANAGEMENT SYSTEM** " being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Computer Science & Engineering** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **V. Saranya Mounika (15H71A0540), K. Jaya Durga (15H71A0513), M. Kavya (15H71A0516), K. SriKanth (15H71A0549)** under my guidance during the academic year **2018-2019** and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
GUIDE NAME


(Mr. U Ganesh Naidu)

  
Dr. A. Jaya Lakshmi

(Head of the Department)

Examiner



  
Dr. Y. SUDHEER BABU

(Principal)

**Dr. Y. SUDHEER BABU, Ph.D, IITM**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
**KANCHIKACHERLA, Krishna District**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**DATA LINEAGE IN MALICIOUS ENVIRONMENTS**

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfilment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**COMPUTER SCIENCE AND ENGINEERING**  
By

Sai Sulochana Siddani(15H71A05F8)

Sushmasri Bommasani(15H71A05H2)

Leela Kumari Kuncham(15H71A05D8)

Venkata Sai Cherukumalli(15H71A05H5)

*Under the Esteemed Guidance of*

**Ms. B. Usha Rani**

**Assistant Professor**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



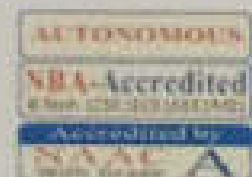
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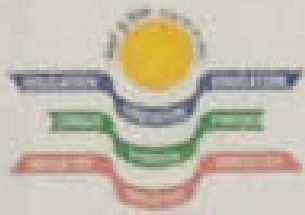
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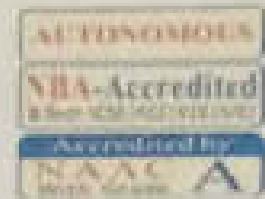
**2018-19**



Devineni Venkata Ramana & Dr.Hima Sekhar  
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### CERTIFICATE

This is to certify that the project work entitled "DATA LINEAGE IN MALICIOUS ENVIRONMENTS" is a bonafied work carried out by Ms.S.Sai Sulochana(15H71A05F8), Ms.B.Sushmasri(15H71A05H2), Ms.K.Leela Kumari(15H71A05D8), Mr.Ch.Venkata Sai(15H71A05H5) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

**Project Guide**

(Ms. B. Usha Rani)

**Head of the Department**

(Dr.A. Jaya Lakshmi)



**Principal**

(Dr. Y. Sudheer Babu)

**Dr. Y. SUDHEER BABU, Ph.D.,JITU**

**PRINCIPAL**

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHI ROAD, KANCHI DISTRICT

**Examiner**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



## HOUSE DESIGN PORTAL

A project report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

### BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE & ENGINEERING

By

Poojitha R(15H71A0526)  
YSL Bhagavathi (15H71A0560)

Rohini Krishna V(15H71A0530)  
Naveen A(15H71A0524)

*Under the Esteemed Guidance of*  
**Mr.P.Narasimha Rao**  
Assistant professor

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Devineni Venkata Ramana & Dr Hima Sekhar  
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2018-19





Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA, UETME/CSE/ICTE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



**CERTIFICATE**

This is to certify that the project report entitled "**HOUSE DESIGN PORTAL**," being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Computer Science & Engineering** from **JawaharlalNehru Technological University, Kakinada**, is a bonafide work done by **Poojitha R(15H71A0526), Rohini Krishna V (15H71A0530), YSLBhagavathi(15H71A0560), NaveenA(15H71A0524)**, under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
**Mr. P. Narasimha Rao**  
(Project Guide)

**Examiner**



  
**Dr. A. Jaya Lakshmi**  
(Head of the Department)

  
**Dr. Y. SUDHEER BABU**  
**Principal**  
**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**  
**KANCHIKACHERLA, Krishna District**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**ONLINE FEE PAYMENT**

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**

**IN**  
**COMPUTER SCIENCE AND ENGINEERING**

Submitted by

**CH. SRI JYOTHI (15H71A05B0)**  
**M. GAYATRI (15H71A0570)**  
**S. PHANI PRAKASH (15H71A0591)**

Under the Guidance of

**Mr. T. Krishnamachari**  
Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

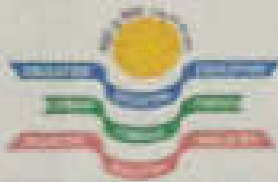
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**2018-2019**







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**DEPARTMENT OF COMPUTER SCIENCE AND  
 ENGINEERING**

**CERTIFICATE**

This is to certify that the project on "ONLINE FEE PAYMENT" is a bonafied work carried out by Ms. SRI JYOTHI CH (15H71A0580), Ms. GAYATRI M (15H71A0570), Mr. PHANI PRAKASH S (15H71A0591) in partial fulfillment for the award of B.Tech. in Computer Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all the project objectives have been incorporated in the report. The project report has been approved and satisfies the academic requirements in respect of project work prescribed.



*T. Krishnamachari*  
 Project Guide  
 (Mr. T. Krishnamachari)

*A. Jayalakshmi*  
 Head of the Department  
 (Dr. A. Jayalakshmi)



*Dr. Y. Sudheer Babu*  
 Principal  
 (Dr. Y. Sudheer Babu)  
 Dr. Y. SUDHEER BASU, Ph.D., IITM  
 PRINCIPAL

*External Examiner*  
 External Examiner

Devineni Venkata Ramana & Dr.Hima Sekhar  
 MIC College of Technology  
 KANCHIACHERLA, Krishna District

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**“A SENSOR FUSION APPROACH FOR DROWSINESS DETECTION  
USING OPTICAL DETECTION TECHNIQUE”**

A project report submitted to

**Jawaharlal Nehru Technological University Kakinada**

*in partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
COMPUTER SCIENCE & ENGINEERING**

By

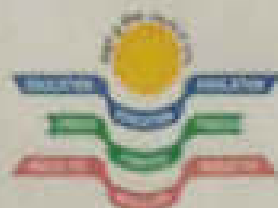
**JAYA SREE GUNDAPU (15H71A0573)**

Under the Guidance of

**Mr. T. KRISHNAMACHARI**

Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



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As per NAAC 2008  
Criteria 100%

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### CERTIFICATE

This is to certify that the project report entitled "A SENSOR FUSION APPROACH FOR DROWSINESS DETECTION USING OPTICAL DETECTION TECHNIQUE" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Computer Science and Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by **Ms. JAYA SREE GUNDAPU (15H71A0573)** under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
(T. Krishnamachari)  
Project Guide

  
(Dr. A. Jaya Lakshmi)  
Head of the Department

  
External Examiner

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**SPEED & ACCURACY FOR MODERN OBJECT DETECTORS**

A Project Report submitted to  
**Jawaharlal Nehru Technological University Kakinada**  
in partial fulfillment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**COMPUTER SCIENCE AND ENGINEERING**

by

**MD. SANA TASLEEM SHAIK (15H71A05H8) B. NAVYA (15H71A05E3)**  
**K.S. KRISHNA (15H71A05G3) P. LAKSHMI PRIYANKA (15H71A05D7)**

Under the Guidance of  
**Mr. P. SRIKANTH**  
Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



Deviveni Venkata Ramana & Dr. Himra Sekhar  
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**2018-19**



Dr. Jeyaraman Ramana & Dr. Uma Sekhar  
**MIC College of Technology**

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## CERTIFICATE

This is to certify that the project work entitled "SPEED/ACCURACY FOR MODERN OBJECT DETECTORS" is a bonafied work carried out by Ms. SANA TASLEEM SHAIK, MD (15H71A05H8), Ms. NAVYA, B (15H71A05E3), Mr. K. SANKARA KRISHNA (15H71A05G3), Ms. LAKSHMI PRIYANKA, P (15H71A05D7) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

*P. Srikanth 24/3/19*

Project Guide

(Mr. P. Srikanth)

*Jaya Lakshmi*

Head of the Department

(Dr. A. Jaya Lakshmi)



*Dr. Y. Sudheer Babu*

Principal

(Dr. Y. Sudheer Babu)

PRINCIPAL

Dr. Jeyaraman Ramana & Dr. Uma Sekhar

MIC College of Technology

KANCHIACHERLA

*[Signature]*

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**DEVELOPMENT OF AN INSTITUTIONAL APP USING  
ANDROID STUDIO**

A project report Submitted to the  
Jawaharlal Nehru Technological University Kakinada

in partial fulfillment for the Award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
COMPUTER SCIENCE & ENGINEERING**

*By*

THANUJA.N (15H71A0551)  
HARITHA.M (15H71A0511)

VENKATA HARIKA.B (15H71A0551)  
SRI HARSHA.T (15H71A0546)

*Under the Esteemed Guidance of*  
**Mr. J. RANGA RAJESH**  
ASSISTANT PROFESSOR

**Department of Computer Science & Engineering**



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA: EEE|ME|CSE|ECE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



2018-19



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA: EEE|ME|CSE|ECE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



**CERTIFICATE**

This is to certify that the project report entitled " **DEVELOPMENT OF AN INSTITUTIONAL APP USING ANDROID STUDIO** " being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Computer Science & Engineering** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **THANUJA.N (15H71A0551), VENKATA HARIKA.B (15H71A0552), HARITHA.M (15H71A0511), SRI HARSHA.T (15H71A0546)** under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
GUIDE NAME

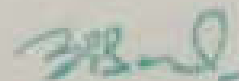
(Mr. J. RANGA RAJESH)



Dr. A. Jaya Lakshmi  
(Head of the Department)

Examiner





Dr. Y. SUDHEER BABU  
(Principal)

**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
« ANCHIKACHERLA, Krishna District »

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



## **NSS WEB PORTAL**

A Project Report submitted to

**Jawaharlal Nehru Technological University Kakinada**

in partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

by

**S. SAI SOWMYA (15H71A05F7)    P. ASA DEEPTHI (15H71A05C4)**  
**B. PHANINDRA (15H71A05E5)    P. RAKESH (15H71A05F1)**

Under the Guidance of

**Mr. D. PRASAD**

Associate Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



Devineni Venkata Ramana & Dr. Himu Sekhar  
**MIC College of Technology**  
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)

Kanchikacharla - 521195, Krishna Dist. A.P, India



**2018-19**





Devineni Venkata Ramana & Dr. Hima Sekhar  
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## CERTIFICATE

This is to certify that the project work entitled "NSS WEB PORTAL" is a bonafied work carried out by **Ms. SAI SOWMYA.S (15H71A05F7)**, **Ms. ASA DEEPTHI.P (15H71A05C4)**, **Mr. PHANINDRA.B (15H71A05E5)**, **Mr. RAKESH.P (15H71A05F1)** in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

Project Guide

(Mr. D Prasad)



Head of the Department

(Dr. A Jayalakshmi)

Principal

(Dr. Y Sudheer Babu)

PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar

MIC College of Technology

KANCHIACHERLA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



## ATTENDANCE MANAGEMENT SYSTEM

A project report Submitted to the  
Jawaharlal Nehru Technological University  
in partial fulfillment for the Award of the degree of

## BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE & ENGINEERING

By

R L PRAVALLIKA V (15H71A0528)

SRI LAKSHMI J (15H71A0547)

HALEEMA SULTHANA (15H71A0510)

S S KOTESWARA PRASAD D (15H71A0533)

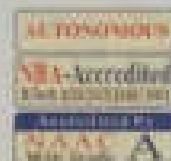
*Under the Esteemed Guidance of*  
**Ms. NV MAHA LAKSHMI**  
Assistant Professor

**Department of Computer Science & Engineering**



Devineeni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

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2018-19



Devineni Venkata Ramana & Dr Himma Sekhar  
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### CERTIFICATE

Certified that the project work entitled "Attendance Management System" is a bonafied work carried out by Ms. R. L. PRAVALLIKA(15H71A0528), Ms. SRI LAKSHMI (15H71A0547), Ms. HALEEMA SULTHANA (15H71A0510), Mr. S. S. KOTESWARA PRASAD.D(15H71A0533) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections/ suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

Ms. N. V. Mahalakshmi  
(Project Guide)

Dr. A. Jayalakshmi  
(Head of the Department)

Dr. Y. SUDHEER BABU  
(Principal)



(Examiner)

**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
**PRINCIPAL**  
Devineni Venkata Ramana & Dr. Himasekhar  
**MIC College of Technology**  
KANCHIKACHERLA, Krishna District

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**A COMPARITIVE STUDY ON HEART DISEASE DATA ANALYSIS USING  
K-NEAREST NEIGHBOR AND DECISION TREE ALGORITHMS**

A project report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfillment for the Award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
COMPUTER SCIENCE & ENGINEERING**

*By*

K.KAVYASREE (15H71A0517)

A.VENKATA SIRI (15H71A0557)

V.DEVAHARSHA (15H71A0505)

CH.NAVYALATHA (15H71A0525)

SK.ABDUL RAHEEM (15H71A0501)

*Under the Esteemed Guidance of*  
**Mr. J Ranga Rajesh**  
Assistant Professor

**Department of Computer Science & Engineering**

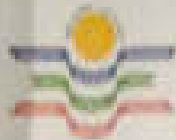


Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

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2018-19



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA- (EEJME), CSE/ITCE & NAAC with 'A' Grade  
 Kanchikacherla - 521100, Krishna Dist. A.P.



**CERTIFICATE**


This is to certify that the project report entitled "A COMPARITIVE STUDY ON HEART DISEASE DATA ANALYSIS USING K-NEAREST NEIGHBOR AND DECISION TREE ALGORITHMS" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Computer Science & Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by K.KAVYASREE (15H71A0517), A.VENKATA SIRI (15H71A0557), V.DEVAHARSHA (15H71A0505), CHNAVYALATHA (15H71A0525), SK.ABDUL RAHEEM(15H71A0501) under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
 Mr. J. Ranga Rajesh  
 (Project Guide)



  
 Dr. A. Jaya Lakshmi  
 (Head of the Department)

Examiner

  
 Dr. Y. SUDHEER BABU  
 Dr. Y. SUDHEER BABU, Ph.D, IITM  
 PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**  
 KANCHIKACHERLA, KRISHNA DISTANCE

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**FINGERPRINT BASED ATM SYSTEM**

*A Project Report submitted to*

**Jawaharlal Nehru Technological University Kakinada**

*in partial fulfillment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

*by*

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**V.SRUTHI(15H71A05B2)**

**V.KUMAR AMRIT (15H71A0574)**

**P.RANA PRATAP(15H71A0594)**

*Under the Guidance of*

**Mr. B.KALYAN CHAKRAVARTHY**

*Assistant Professor*

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "FINGERPRINT BASED ATM SYSTEM" is a bonafied work carried out by Ms. K.VINISHA REDDY(15H71A05B9), Ms. V.SRUTHI(15H71A05B2), Mr. V.KUMAR AMRIT (15H71A0574), Mr. P.RANA PRATAP(15H71A0594) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

Mr. B. Kalyan Chakravarthy  
(Project Guide)



Dr. A. Jaya Lakshmi  
(Head of the Department)

Dr. Y. Sudheer Babu  
(Principal)

Dr. Y. SUDHEER BABU, P.H.D., I.T.M.  
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



## CRIME PATTERN ANALYSIS USING K-MEANS

A project submitted to

**Jawaharlal Nehru Technological University Kakinada**  
in partial fulfillment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**

IN

**COMPUTER SCIENCE & ENGINEERING**

By

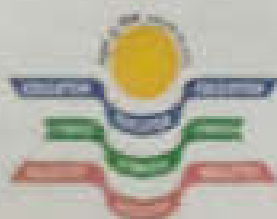
**V. P. M. PRIYANKA (15H71A05E4)      B. SRILEKHA (15H71A05H0)**  
**M. ANAND AKHIL (15H71A05C1)**

Under the Esteemed Guidance of

**Mr. J. V. Srinivas**

*Assistant Professor*

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



Devineni Veekata Ramana & Dr. Hima Sekhar  
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2018-2019





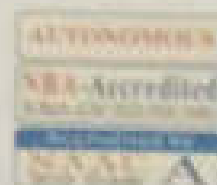
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## CERTIFICATE

This is to certify that the project entitled "CRIME PATTERN ANALYSIS USING K-MEANS" is a bonafied work carried out by Ms. V. P .M. Priyanka (15H71A05E4), Ms. B. Srilekha (15H71A05H0), Mr. M. Anand Akhil (15H71A05C1) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering from Jawaharlal Nehru Technological University, Kakinada during 2018-2019. It is certified that all the correction/suggestions indicated for internal assessment/suggestion have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in the respect of project work prescribed for the above degree.

**Project Guide**

(Mr. J. V. Srinivas)

**Head of the Department**

(Dr. A. Jayalakshmi)

**Principal**

(Dr. Y. Sudheer Babu)

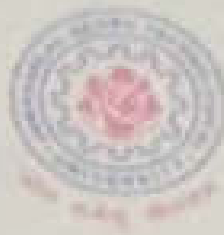
**Dr. Y. SUDHEER BABU, M.D.JITM**

**PRINCIPAL**

Devineni Venkata Ramana & Dr. Hema Sekhar  
**MIC College of Technology**  
KANCHIRACHILUVA, Kakinada District



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**HAND GESTURE RECOGNITION TECHNIQUE FOR HCI**

A Project Report submitted to  
Jawaharlal Nehru Technological University Kakinada  
in partial fulfilment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY  
IN  
COMPUTER SCIENCE AND ENGINEERING**

By

SK.SIMRAN (15H71A05G5)

Y.MANI SREEHARSHA (15H71A05E1)

B.SREE RAMADEVI (15H71A05G7)

B.V. RATNAM (15H71A05B4)

MSAI NIKITHA (14H71A0544)

*Under the Esteemed Guidance of*

**Mr. P. SRIKANTH**

**Assistant Professor**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



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**MIC College of Technology**

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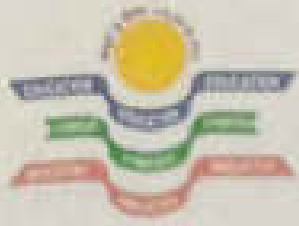
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## CERTIFICATE

This is to certify that the project work entitled "HAND GESTURE RECOGNITION TECHNIQUE FOR HCI" is a bonafied work carried out by Ms. SIMRAN,SK (15H71A05G5), Mr. MANI SREEHARSHA, Y (15H71A05E1), Ms. SREE RAMADEVLB (15H71A05G7), Mr. VENKATA RATNAMLB (15H71A05H4), Ms. SAI NIKITHA, M (14H71A0544) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2019-2020. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

*P. Srikanth* 29/2/19

Mr. P.SRIKANTH  
(Project Guide)

*Jaylaxmi*

Dr. A. JAYALAKSHMI  
(Head of the Department)



*Y. Sudheer Babu*

Dr. Y.SUDHEER BABU  
(Principal)

*[Signature]*  
Examiner

PRINCIPAL  
Devivani Venkata Ramani & Dr. Himma Sekhar  
MIC College of Technology  
KUVEMPURACHERI

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**CHRONIC KIDNEY DISEASE PREDICTION USING  
CLASSIFICATION**

A Project Report submitted to  
**Jawaharlal Nehru Technological University Kakinada**  
in partial fulfillment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**COMPUTER SCIENCE AND ENGINEERING**

by

R. Prasanthi (15H71A05E7)

B. Rajesh (15H71A05F0)

D. Anusha (15H71A05C3)

M. Preethi(15H71A05E9)

D. Chandrasekhar (15H71A05C7)

Under the Guidance of

**MR. N. SRIHARI**

Associate Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



Devineni Venkata Ramana & Dr. Hima Sekhar  
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2018-19




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## CERTIFICATE

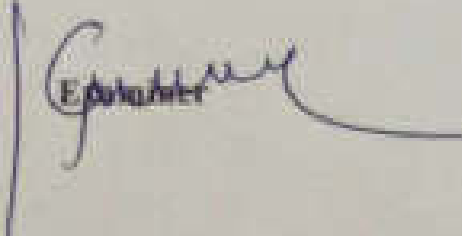
This is to certify that the project work entitled "CHRONIC KIDNEY DISEASE PREDICTION USING CLASSIFICATION" is a bonafied work carried out by Ms. R. Prasanthi(15H71A05E7), Mr. B. Rajesh(15H71A05F0), Ms. B. Anusha (15H71A05C3), Ms. M. Preethi (15H71A05E9), Mr. D. Chandrasekhar(15H71A05C7) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

  
Project Guide  
(Mr. N Srihari)



  
Head of the Department  
(Dr. A. Jayalakshmi)

  
Principal  
(Dr. Y. Sudheer Babu)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**PLACEMENT CELL AUTOMATION**

A Project Report submitted to  
Jawaharlal Nehru Technological University  
Kakinada in partial fulfillment for the award of the  
degree of

**BACHELOR OF TECHNOLOGY**

in

**COMPUTER SCIENCE AND ENGINEERING**

by

SATYA, M	(15H71A05A4)
NAVA KUMAR, T	(15H71A0587)
VIJAYA SAI CH	(15H71A05B7)
NARENDRA KUMAR, K	(15H71A0586)

Under the Guidance of

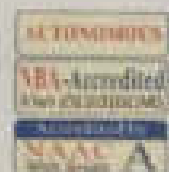
**Mr. Sk. Akbar,**  
Assistant Professor

**Department of Computer Science & Engineering**



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA: EEE|ME|CSE|ECE & NAAC with 'A' Grade  
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2018-19



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the project report entitled " **PLACEMENT CELL AUTOMATION** " being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Computer Science & Engineering** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **Ms. SATYA. M (15H71A05A4)**, **Mr. NAVA KUMAR. T (15H71A0587)**, **Mr. VIJAYA SAL CH (15H71A05B7)**, **Mr. NARENDRA KUMAR. K (15H71A0586)** under my guidance during the academic year 2015-2016 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

*SK Akbar*  
 30/03/15

**Project Guide**  
**(Mr. SK. Akbar)**



*Jaya Lakshmi*  
**Head of the Department**  
**(Dr. A. Jaya Lakshmi)**

*Sudbeer Babu*

**Principal**  
**(Dr. Y. Sudbeer Babu)**  
**DR. Y. SUDBEER BABU, Ph.D., IITM**  
**PRINCIPAL**

*External Examiner*  
**External Examiner**

Devineni Venkata Ramana & Dr. Hima Sekhar  
**MIC College of Technology**  
**KUNCHIKACHERLA, Krishna District**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA.**



**VEHICLE IDENTIFICATION USING NUMBER PLATE  
RECOGNITION**

A Project Report submitted to

**Jawaharlal Nehru Technological University Kakinada**

in partial fulfilment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

by

**B.SAI BHAVANI (15H71A05F3)**

**P. JAYASARIKA (15H71A05D4)**

**N.SAI SUNEETHA (15H71A05F9)**

**K. AVINASH (15H71A05C5)**

Under the Guidance of

**Ms. L. KANYA KUMARI**

Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



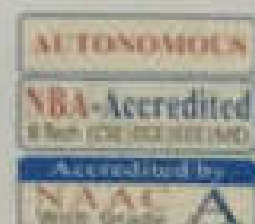
Devineni Venkata Ramana & Dr.Himra Sekhar  
**MIC College of Technology**

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Kanchiacherla - 521191, Krishna Dist, A.P. India.

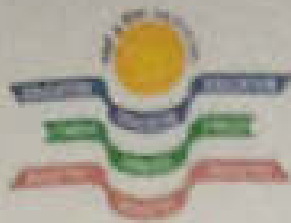
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2018-19

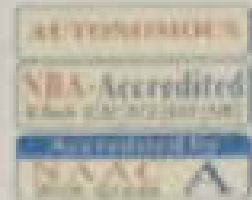




Devireddy Venkata Reddy & Dr. Hema Sekhar  
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## CERTIFICATE

This is to certify that the project work entitled "VEHICLE IDENTIFICATION USING NUMBER PLATE DETECTION" is a bonafied work carried out by Ms. SAI BHAVANLB (15H71A05F3), Ms. JAVASARIKAP (15H71A05D4), Ms. SAI SUNEETHAN (15H71A05F9), Mr. AVINASILK (15H71A05C5) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

Project Guide

(Ms. L. Kanya Kumari)

Head of the Department

(Dr. A. Jaya Lakshmi)



Principal

(Dr. Y. Sudheer Babu)

Dr. Y. SUDHEER BABU, Ph.D., IITM  
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KANDAMACHERU - 521101, KAKINADA DISTRICT

Examiner

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**FAKE PRODUCT REVIEW MONITORING AND REMOVAL FOR  
GENUINE ONLINE PRODUCT REVIEWS**

A Project Report submitted to  
**Jawaharlal Nehru Technological University Kakinada**  
in partial fulfillment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**

**IN  
COMPUTER SCIENCE AND ENGINEERING**

Submitted by

**CILDEVASRI (15H71A0568)**

**CILHARI CHANDANA (15H71A0572)**

**R.KALPANA (15H71A0575)**

**M.NAGA KEERTHI (15H71A0583)**

Under the Esteemed Guidance of  
**Mr. CHILSRINIVASARAO**  
Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



**Devineni Venkata Ramana & Dr Hima Sekhar**  
**MIC College of Technology**

Accredited by NBA: EEE/MIC/SHECE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



2018-19



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA, FEEDMECSEECE & NAAC with 'A' Grade  
 Kanchikacherla - 521181, Krishna Dist. A.P.



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "FAKE PRODUCT REVIEW MONITORING AND REMOVAL FOR GENUINE ONLINE PRODUCT REVIEWS" is a bonafide work carried out by Ms. CHL DEVASRI (15H71A0568), Ms. CHL HARI CHANDANA (15H71A0572), Ms. R. KALPANA (15H71A0575), Ms. M. NAGA KEERTHI (15H71A0583) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

  
 Project Guide

(Mr. CHL Srinivasarao)





Head of the Department

(Dr. A. Jaya Lakshmi)



Principal

Dr. Y. SUDHEER BABU

PRINCIPAL

Devineni Venkata Ramana & Dr Hima Sekhar

MIC College of Technology

KANCHIKACHERLA, A.P.

  
 External Examiner

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**E-LEARNING WEB APPLICATION**

*A project submitted to*

**Jawaharlal Nehru Technological University Kakinada**

*in partial fulfillment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**In**

**COMPUTER SCIENCE & ENGINEERING**

**By**

**K.J.V.H. Vijendra Babu(15H71A05G8)**

**N. Sravani(15H71A05G6)**

**V.Seshagiri(15H71A05G4)**

**M. Prabhavathi(15H71A05E6)**

*Under the Esteemed Guidance of*

**Dr. A. Rama Satish**

**Professor**

**Department of Computer Science & Engineering**



*Devisetri Venkata Ramana & Dr.Hima Sekhar*  
**MIC College of Technology**

*(Approved by AICTE & Permanently Affiliated to JNTU, Kakinada)*

*Kakinada - 521005, Andhra Pradesh, A.P, India*

*Phone: 9879-27929, 27922, Fax: 9879-27949*

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**2018-19**



Devipriya Venkata Ramana & Dr.Hima Sekhar  
**MIC College of Technology**

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E-mail: [miccollege@rediffmail.com](mailto:miccollege@rediffmail.com) Website: [www.miccollege.ac.in](http://www.miccollege.ac.in)



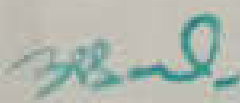
## CERTIFICATE

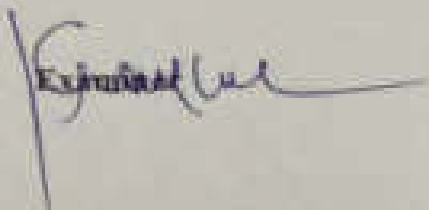
This is to certify that the project entitled "E-LEARNING WEB APPLICATION" is a bonafied work carried out by Mr. K.J.V.H.Vijendra Babu (15H71A05G8), Ms. N. Sravani (15H71A05G6), Mr.V.Seshagiri (15H71A05G4) and Ms.M.Prabhavathi (15H71A05E6) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering from Jawaharlal Nehru Technological University,Kakinada during 2018-2019. It is certified that all the correction/suggestions indicated for internal assessment/suggestion have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in the respect of project work prescribed for the above degree.

  
Dr. A.Rama Satish  
(Project Guide)



  
Dr. A. Jaya Lakshmi  
(Head of the Department)

  
Dr. Y. Sudheer Babu  
(Principal)



PRINCIPAL  
Devipriya Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHI BRANCH

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**VENUE BOOKING FOR COLLEGE EVENTS**

A Project Report submitted to  
**Jawaharlal Nehru Technological University Kakinada**  
in partial fulfillment of the requirements for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
IN  
**COMPUTER SCIENCE AND ENGINEERING**

by

<b>P. SANTHOSHI</b>	<b>(15H71A05A1)</b>
<b>R. L.V. SARATH</b>	<b>(15H71A0580)</b>
<b>K.AKSHITHA</b>	<b>(15H71A0561)</b>
<b>LVAMSI</b>	<b>(15H71A05B4)</b>

Under the Guidance of

**Mr. SK. Akbar**  
Assistant Professor

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



**Devineni Venkata Ramana & Dr.Hima Sekhar**  
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Phone : 08678 - 273535, 273623, Fax: 08678 - 273569

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**2018-2019**





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AUTONOMOUS


NBA-Accredited  
B.Tech (CSE) (REG/REG)


Approved by  
NAAC  
With Grade A

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING


### CERTIFICATE

This is to certify that the project work entitled "VENUE BOOKING FOR COLLEGE EVENTS" is a bonafied work carried out by Ms. SANTHOSHI P (15H71A05A1), Mr. LAKSHMI VENKATA SARATH R (15H71A0580), Ms. AKSHITHA, K (15H71A0561), Mr. VAMSL I (15H71A05B4) in partial fulfillment for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2018-2019. It is certified that all corrections and suggestions indicated for assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above degree.

  
30/03/19  
**Project Guide**  
(Mr. SK. Akbar)

  
**Head of the Department**  
(Dr. A. JayaLakshmi)



  
**Principal**  
(Dr. V. Sudheer Babu) Ph.D., IITB

  
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## DEPARTMENT OF COMPUTER APPLICATIONS

A.Y:2018-19

### List of Major Projects

S.No.	Regd No	Students Name	Project Title	Internal Guide
1	16H71F0001	Anusha Dunna	A Comparative Study On Smart Health Prediction System Using Data Mining	Ms.A.Anuradha
2	16H71F0002	Himaja Simhadri	Sentimental Analysis Of Twitter Data Using Nlp And Machine Learning Techniques	Dr.A.Rama Satish
3	16H71F0003	Mounika Patibandla	Recommendation Framework For Sentimental Analysis Using L-Injection	Dr.G.Kalyani
4	16H71F0004	Naveen Doddi	Credit Card Deceit Detection Using Random Forest Algorithm	Mr.D.Varun Prasad
5	16H71F0005	Pravallika Potluri	Detection Of Fake News Using Naïve Base Classifier	Ms.V.SriLakshmi
6	16H71F0006	Shaik Shakir Pasha	Prediction Of Heart Disease Using Data Mining	Mr.J.RangaRajesh
7	16H71F0007	Sirisha Mekala	Discovery Of Ranking Fraud For Mobile Apps	Mr.D.Prasad
8	16H71F0008	Sushmitha Arya	Breast Cancer Detection Using Machine Learning Techniques	Mr.N.Srihari
9	16H71F0009	Trisuna Eeda	Intrusion Detection System Using Support Vector Machine,Random Forest And	Mr.B.Ajay Kumar



			Extreme Learning Machine Based On Performance	
10	16H71F0010	Vanaja Annapureddy	Behaviour-Based Collective Classification In Sparsely Labeled Network	Ms.S.Lavanya
11	16H71F0011	Varshini Nandivada	Estimation Of Road Accidents Using Machine Learning Techniques	Mr.P.Narasimha Rao
12	16H71F0012	Venu Ponduri	Significant Permission Identification For Machine Learning Based Android Malware Detection	Mr.Ch.Vinodh Kumar
13	16H71F0013	Vijaya Bhaskar Reddy Pingala	Url Phishing Analysis Using Random Forest And Support Vector Machine Algorithms	Ms.M.Madhavi

*Jayel*  
**Head of the Department**

**(Dr. A.Jaya Lakshmi)**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**Smart Health Prediction System Using Data Mining**

Submitted to

Jawaharlal Nehru Technological University, Kakinada

In partial fulfillment of the requirements for the award of the degree of

**MASTER OF COMPUTER APPLICATIONS**

Submitted by

**DUNNA ANUSHA**  
(16H71F0001)

Under the Esteemed Guidance of

**Ms.A.Anuradha**  
Assistant Professor

Department of Computer Applications



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA: EEE/ME/CSE/ICE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.

2018-19





Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**


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Kanchikacherla - 521180, Krishna Dist. A.P.



**CERTIFICATE**

This is to certify that the project report entitled **"SMART HEALTH PREDICTION SYSTEM USING DATA MINING"** being submitted for the partial fulfillment of the requirements for the award of the degree in **Master of Computer Applications** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **D.ANUSHA (16H71F0001)** under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
**Ms. A. Anuradha**  
(Project Guide)

  
**Dr. A. Jaya Lakshmi**  
(Head of the Department)

  
**Examiner**

  
**Dr. Y. SUDHEER BABU**  
(Principal)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**Recommendation Framework for Sentimental Analysis  
Using I-injection**

Submitted to

Jawaharlal Nehru Technological University, Kakinada  
In partial fulfillment of the requirements for the award of the degree of

**MASTER OF COMPUTER APPLICATIONS**

Submitted by

**MOUNIKA PATIBANDLA  
(16H71F0005)**

Under the Esteemed Guidance of

**Dr .G. Kalyani  
Professor**

Department of Computer Applications

Devireddy Venkata Ramana & Dr Hima Sekhar

**MIC College of Technology**

Accredited by NBA, UETM, CMU, IET & NAAC with 'A' Grade

Kanchikacherla - 521180, Krishna Dist. A.P.

2018-19





Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA, UETME/CSU/CTE & NAAC with 'A' Grade  
 Kanchikacherla - 521180, Krishna Dist. A.P.



**CERTIFICATE**

This is to certify that the project report entitled "Recommendation Framework for Sentimental Analysis Using I-injection" being submitted for the partial fulfillment of the requirements for the award of the degree Master of Computer Applications in from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by P.MOUNIKA (16H71F0005) under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

*G. Kalyani*  
 Dr. G. Kalyani  
 (Project Guide)



*Jaya*  
 Dr. A. Jaya Lakshmi  
 (Head of the Department)

*[Signature]*  
 Examiner

*[Signature]*  
 Dr. Y. BALYASURMAJI  
 (Principal)  
 Devineni Venkata Ramana & Dr Hima Sekhar  
 MIC College of Technology  
 KANCHIKACHERLA, Krishna District

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**Credit Card Deceit Detection Using Random Forest Algorithm**

Submitted to

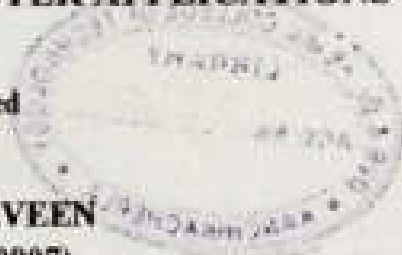
Jawaharlal Nehru Technological University, Kakinada  
In partial fulfillment of the requirements for the award of the degree of

**MASTER OF COMPUTER APPLICATIONS**

Submitted

by

**DODDI NAVEEN**  
(16H71F0007)



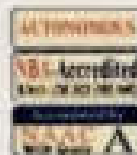
Under the Esteemed Guidance of

**D. Varun Prasad**  
Associate Professor



Department of Computer Applications  
Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA-EEEMECSECE & NAAC with 'A' Grade  
Kanchikacherla - 521189, Krishna Dist, A.P.



2018-19



Devineni Venkata Ramana & Dr Hima Sekhar  
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Kanchikacherla - 521180, Krishna Dist, A.P.



**CERTIFICATE**

This is to certify that the project report entitled "Credit Card Deceit Detection using Random Forest Algorithm" being submitted for the partial fulfillment of the requirements for the award of the degree Master of Computer Applications in from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by D. NAVEEN (16H71F0007) under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree

  
Dr. D. Varun Prasad

(Project Guide)

  
Dr. A. Jaya Lakshmi

(Head of the Department)

  
Examiner





Dr. Y. SUDHEER BABU

(Principal)  
Dr. Y. SUDHEER BABU, Ph. D., M.Tech.  
PRINCIPAL

Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna Dist, A.P.

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**DETECTION OF FAKE NEWS USING NAIVE BAYES CLASSIFIER**

**Submitted to**

**Jawaharlal Nehru Technological University, Kakinada.**

**In partial fulfillment of the requirements for the award of the degree of  
MASTER OF COMPUTER APPLICATIONS**

**Submitted by**

**Potluri Pravalika**

**(16H71F0008)**

**Under the Guidance of**

**MS. V. SRI LAKSHMI**

**Assistant Professor**

**DEPARTMENT OF COMPUTER APPLICATIONS**



**Devisetti Veekata Ramana & Dr. Hema Sekhar  
MIC College of Technology**

Approved by AICTE & Permittedly Affiliated to JNTUK, Kakinada

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For the year 2018  
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**2018-19**





Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA: EEEMECSEECE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



### CERTIFICATE


This is to certify that the project report entitled "DETECTION OF FAKE NEWS USING NAIVE BAYES CLASSIFIER" being submitted for the partial fulfillment of the requirements for the award of the degree in **Master of Computer Applications** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **POTLURI PRAVALLIKA[16H71F0008]** under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
MS. V. SRI LAKSHMI  
(Project Guide)



  
Dr. A. Jaya Lakshmi  
(Head of the Department)

  
Examiner

  
Dr. Y. SUDHEER BABU  
Dr. Y. SUDHEER BABU, Ph.D., IITB  
(Principal)  
Devineni Venkata Ramana & Dr. Hima Sekhar  
MIC College of Technology  
KANCHIKACHERLA, Krishna District

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**Prediction of Heart Disease Using Data Mining**

A Project report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment for the Award of the degree of  
**MASTER OF COMPUTER APPLICATIONS**

Submitted by  
**SK SHAKIR PASHA**  
(16H71F0012)

Under the Esteemed Guidance of  
**Mr. J Ranga Rajesh**  
Assistant Professor

Department of Computer Applications

Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA- EEE/ME/CSE/ECE & NAAC with 'A' Grade  
Kanchikacherla - 521199, Krishna Dist. A.P.

2018-2019





Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA: EEE/ME/CSE/ITCE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.



**CERTIFICATE**

This is to certify that the project report entitled "**Prediction of Heart Disease Using Data Mining**" being submitted for the partial fulfillment of the requirements for the award of the degree in **Master of Computer Applications** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **Sk Shakir Pasha (16H71F0012)** under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
Project Guide

**Mr. J. Ranga Rajesh**  
Assistant Professor

  
Head of the Department

**Dr. A. Jaya Lakshmi**  
Professor

  
External Examiner





**Dr. Y. SUDHEER BABU**

**PRINCIPAL**  
**Dr. Y. SUDHEER BABU, Ph.D., IITM**  
PRINCIPAL

Dr. Y. SUDHEER BABU, Ph.D., IITM  
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MIC College of Technology  
KANCHIKACHERLA, KRISHNA DIST. A.P.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**DISCOVERY OF RANKING FRAUD FOR MOBILE APPS**

Submitted to

Jawaharlal Nehru Technological University, Kakinada  
In partial fulfillment of the requirements for the award of the degree of

**MASTER OF COMPUTER APPLICATIONS**

Submitted by

**MEKALA SIRISHA**  
(16H71F0013)

Under the Esteemed Guidance of

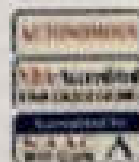
**Mr .D.Prasad**  
(Associate Professor)

Department of Computer Applications



Devineni Venkata Ramana & Dr Himu Sekhar  
**MIC College of Technology**

Accredited by NBA-EEE/MEC/EECE & NAAC with 'A' Grade  
Kanchakucharla - 521180, Krishna Dist. A.P.



2018-19



Devineni Venkata Ramana & Dr Ilma Sekhar  
**MIC College of Technology**


Accredited by NBA-EEEMECSEJCT & NAAC with 'A' Grade  
 Kanchikacherla - 521180, Krishna Dist. A.P.



**CERTIFICATE**


This is to certify that the project report entitled **"DISCOVERY OF RANKING FROUD FOR MOBILE APPS"** being submitted for the partial fulfillment of the requirements for the award of the degree **Master of Computer Applications** in from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **MSIRISHA(16H71F0013)** under my guidance during the academic year **2018-2019** and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree

  
**Mr. D. Prasad**  
 (Project Guide)

  
**Dr. A. Jaya Lakshmi**  
 (Head of the Department)

  
**Examiner**



  
**Dr. Y. SUDHEER BABU**  
 (Principal)  
**Dr. Y. SUDHEER BABU, Ph.D., M.A.**  
 PRINCIPAL  
 Devineni Venkata Ramana & Dr Ilma Sekhar  
**MIC College of Technology**  
**KANCHIKACHERLA, Krishna District**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA



**BREAST CANCER DETECTION USING MACHINE LEARNING  
TECHNIQUES**

A project report Submitted to the  
Jawaharlal Nehru Technological University, Kakinada  
In partial fulfillment of the requirements for the award of the degree of

**MASTER OF COMPUTER APPLICATIONS**

Submitted By

SUSHMITHA ARYA  
(16H71F0014)

Under the Esteemed Guidance of

**MR. N. SRI HARI**  
(Assistant Professor)

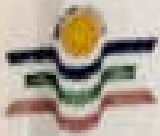
Department of Computer Applications

Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA, EEE, MEC, SECE & NAAC with 'A' Grade  
Kanchikacherla - 521180, Krishna Dist. A.P.

2018-2019





Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

Accredited by NBA: EEE/ME/CSE/JECE & NAAC with 'A' Grade  
 Kanchikacherla - 521180, Krishna Dist. A.P.



**CERTIFICATE**


This is to certify that the project report entitled "Breast Cancer Detection using Machine Learning Techniques" being submitted for the partial fulfillment of the requirements for the award of the degree in Master of Computer Applications from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by SUSHMITHA ARYA (16H71F0014), under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

  
 Mr. N Sri Hari  
 (Project Guide)

  
 Dr. A. Jaya Lakshmi  
 (Head of the Department)

  
 Examiner



  
 Dr. Y. SUDHEER BABU  
 (Principal)  
 Dr. Y. SUDHEER BABU, Ph.D., IITM  
 PRINCIPAL  
 Devineni Venkata Ramana & Dr. Hima Sekhar  
 MIC College of Technology  
 KANCHIKACHERLA, Krishna District

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**INTRUSION DETECTION SYSTEM USING SUPPORT VECTOR  
MACHINE, RANDOM FOREST AND EXTREME LEARNING  
MACHINE BASED ON PERFORMANCE**

A Project report Submitted to the

Jawaharlal Nehru Technological University Kakinada

In partial fulfillment for the Award of the degree of

**MASTER OF COMPUTER APPLICATIONS**

Submitted  
by

E. TRISUNA

(16H71F0016)

Under the Esteemed Guidance of

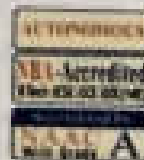
**Mr. B. AJAY KUMAR**  
Assistant Professor

**Department of Computer Applications**



Devineni Venkata Ramana & Dr Hima Sekhar  
**MIC College of Technology**

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**CERTIFICATE**

This is to certify that the project report entitled "INTRUSION DETECTION SYSTEM USING SUPPORT VECTOR MACHINE ,RANDOM FOREST AND EXTREME LEARNING MACHINE BASED ON PERFORMANCE " being submitted for the partial fulfillment of the requirements for the award of the degree in **MASTER OF COMPUTER APPLICATIONS** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **E.TRISUNA(16H71F0016)** under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the award of any degree e university. This work is not submitted to any other institution or university the award of any degree.

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**INDUSTRY**  
  
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**MIC College of Technology**  
 KANCHIKACHERLA, Krishna District

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA



**BEHAVIOUR BASED COLLECTIVE CLASSIFICATION  
IN SPARSELY LABELLED NETWORK**

A Project report Submitted to the  
Jawaharlal Nehru Technological University Kakinada  
In partial fulfillment for the Award of the degree of  
**MASTER OF COMPUTER APPLICATIONS**

Submitted  
by

A. VANAJA

(16H71F0017)

Under the Esteemed Guidance of

**Ms. S. LAVANYA**  
Assistant Professor

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### CERTIFICATE


This is to certify that the project report entitled **"Behaviour-Based Collective Classification in Sparsely Labelled Network"** being submitted for the partial fulfilment of the requirements for the award of the degree in **MASTER OF COMPUTER APPLICATIONS** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **A.VANAJA(16H71F0017)** under my guidance during the academic year 2018-2019 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree

  
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  
KAKINADA**



**Significant Permission Identification for Machine Learning Based Android  
Malware Detection**

A project report Submitted to the  
Jawaharlal Nehru Technological University Kakinada

In partial fulfilment for the award of the degree of

**MASTER OF COMPUTER APPLICATIONS**

Submitted by

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**CERTIFICATE**

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This work is not submitted to any other institution or university for the award of any degree



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Dr. A. Jaya Lakshmi

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