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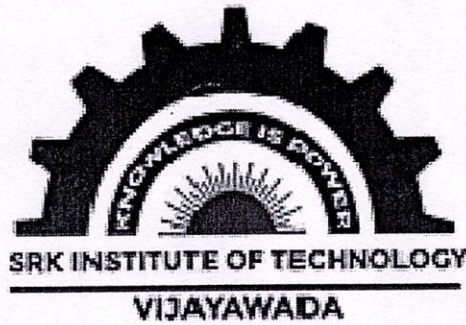
A.Y 2019-20

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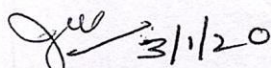
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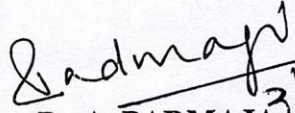
**DEPARTMENT OF SCIENCES & HUMANITIES**

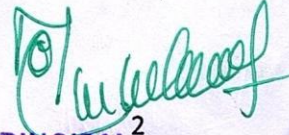


**CERTIFICATE**

This is to certify that the Engineering Exploration Project report entitled "PROPOSAL FOR APPLICATION OF SMART CONCEPT IN AMBAPURAM VILLAGE" submitted by S. SUBHASHINI (19X41A0102), V.pradeep (19X41A0103), as a record of the work carried out by them, is accepted as a bonafied wok report submission in partial fulfilment of the requirements for the award of Credits in First Year First Semester of Bachelor of Technology in Civil Engineering during the academic year 2019-2020.

  
Mr. J.PURNA CHANDRA RAO  
Signature of the Examiner

  
Dr.A. PADMAJA  
Signature of H.O.D, S&H

  
PRINCIPAL<sup>2</sup>  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 105

19-20  
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# S.R.K.INSTITUTE OF TECHNOLOGY

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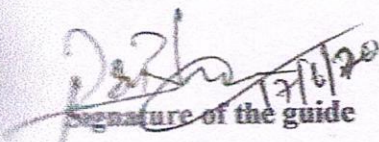
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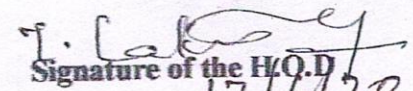
## DEPARTMENT OF CIVIL ENGINEERING



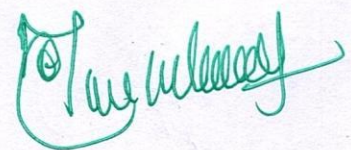
### CERTIFICATE

This is to certify that the major project report entitled "STABILIZATION OF EXPANSIVE SOIL BY USING SAW DUST ASH" submitted by CH. LAHARI(16X41A0107), D. TARUN KUMAR (16X41A0110), G. JULESH KUMAR (16X41A0114) and K. RAVI TEJA (16X41A0119) as a record of the work carried out by them, is accepted as a bonafined work report submission in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2019-2020.

  
Signature of the guide  
(Ms.P.S V BHARATH)

  
Signature of the H.O.D  
17/6/20  
(Dr.T.SATYANARAYANA)

Signature of the External



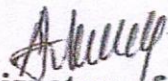
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ENIKEPADU, VIJAYAWADA-521 108.

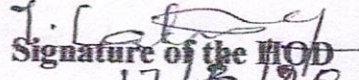
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**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the project “**DESIGN OF G+3 RESIDENTIAL BUILDING (MANUAL & STAAD PRO)**” being submitted by **CH.JAYA PRAKASH (16X41A0109), G.NEELAVENI (16X41A0116), P.NAGA ARUN KUMAR (16X41A0131), SK.CHAND BASHA (16X41A0136)** is the bonafide work carried under the guidance of **A.ANOOP KUMAR, M.Tech** in the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in ‘Civil Engineering’ during the academic year 2019-2020.

  
Signature of the Guide

  
Signature of the HOD  
17/5/20

Signature of the External



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ENIKEPADU, VIJAYAWADA-521108.

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**ENIKEPADU, VIJAYAWADA**

**AS ISO 9001:2008 Certified Institute**

**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the major project report entitled as "EXPERIMENTAL STUDY ON POTENTIAL OF AGRO WASTES AS A NOISE INSULATING CONSTRUCTION MATERIAL" being submitted by D. KHAGARAJA SAI (16X41A0111), K. GANESH (16X41A0121), T. RAMYA(16X41A0138), V. DRAVID KUMAR(16X41A0142) is the bonafide work carried under the guidance of Mrs. E. USHA SREE, Assistant professor in the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in 'Civil Engineering' during the academic year 2019 – 2020.

*E. Usha Sree 15/6/2020*  
Signature of the Guide

*J. Lakshmi 15/6/20*  
Signature of the HOD

Signature of the External

*[Handwritten Signature]*

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**DEPARTMENT OF CIVIL ENGINEERING.**



**CERTIFICATE**

This is to certify that the project **“EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF FINE AGGREGATE BY QUARRY DUST IN CONVENTIONAL CONCRETE”** being submitted by **E.PRASANTH (16X41A0113), K.RUSHIKESH (16X41A0123), P.MALLIKARJUNA (16X41A0133), R.NAGESWARA RAO (16X41A0134)** is the bonifide work carried under the guidance of **G.SAHITHI, M.Tech** in the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology during the academic year 2019-2020.

*G. Sahithi*  
16/6/2020  
Signature of the Guide

*J. Lakshmi*  
Signature of the HOD  
16/6/20

Signature of the External

*[Handwritten Signature]*

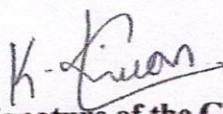
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ENIKEPADU, VIJAYAWADA-521 108.

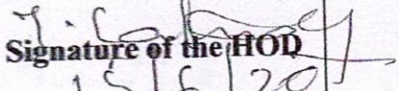
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**AS ISO 9001:2008 Certified Institute**  
**DEPARTMENT OF CIVIL ENGINEERING**



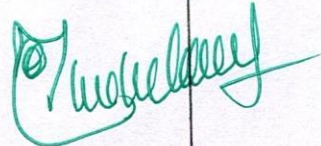
**CERTIFICATE**

This is to certify that the project “**STUDY OF FLEXURAL STRENGTH OF REINFORCED CONCRETE AND STEEL FIBER REINFORCED CONCRETE AND ITS REHABILITATION**” being submitted by **B.VINOD (16X41A0102), B.HARISH (16X41A0105), CH. JOHN WILSON (16X41A0108), K. VEKATESWARAO (16X41A0122)** is the bonafide work carried under the guidance of **K. KIRAN , MTech** in the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in ‘**Civil Engineering**’ during the academic year 2019-2020.

  
Signature of the Guide

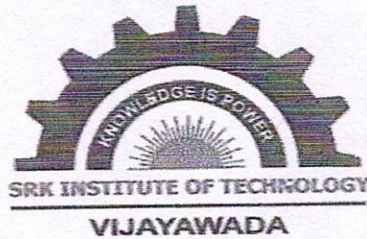
  
Signature of the HOD  
15/6/20

Signature of the External



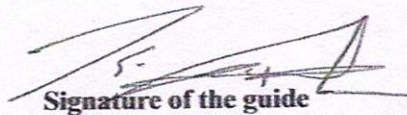
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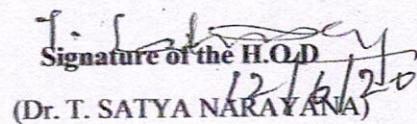


**CERTIFICATE**

This is to certify that the major project entitled “ **EXPERIMENTAL INVESTIGATION OF GGBS AND BRHA BASED GEOPOLYMER CONCRETE USING ALKALI ACTIVATORS**” submitted by D. SATYA SAKETH (16X41A0112), K. SIVA SANKAR (16X41A0125), M. PRIYANKA (16X41A0127), R. LOK PAVAN (16X41A0135), V. PRASAD (16X41A0141), as a record of work carried out by them, is accepted as a bonafied work report submission in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the A.Y 2019-2020.

  
Signature of the guide

(K. CHANDRA PADMAKAR)

  
Signature of the H.O.D  
12/6/20  
(Dr. T. SATYA NARAYANA)

**Signature of the External**



**PRINCIPAL**

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### CERTIFICATE

This is to certify that the major project entitled “EXPERIMENTAL STUDY ON PALM NUT SHELL AS A COARSE AGGREGATE FOR STRUCTURAL CONCRETE” submitted by A A.GLORY (16X41A0102), J.VIJAY BABU (16X41A0117), K.V.B AVINASH (16X41A0118), N.VAMSI KRISHNA (16X41A0130), under the guidance of Mr. KARHIK KUMAR as a record of the work carried out by them, is accepted as a bonifide work report submission in partial fulfilment of the requirement for the award of the degree of bachelor of technology during the academic year 2019-2020.

*Karthik* 16/6/20  
Signature of the guide

*T. Lakshmi*  
signature of HOD  
16/6/20

Signature of external

*T. Lakshmi*  
PRINCIPAL



**S.R.K INSTITUTE OF TECHNOLOGY**

**(Approved by AICTE, Affiliated to JNTU Kakinada.)**

**(An ISO 9001:2008 Certified Institution)**

**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the major project entitled “**EXPERIMENTAL STUDY OF CONCRETE BY PARTIAL REPLACEMENT OF CEMENT WITH GLASS POWDER AND FLY ASH**” submitted by U. V.V.V.S.N PRASAD (16X41A0140), K. RAGHAVENDRA PAVAN CHARI (16X41A0124), M.D.S SANTOSH (16X41A0126), M. DURGA PRASAD (15X41A0162), P.KIRAN (16X41A0132) as a record of work carried out by them, is accepted as a Bonafede work report submission in partial fulfilment of the requirement for the award of the degree of Bachelor of technology in CIVIL ENGINEERING during the A.Y 2019-2020.

*Ch. Rallu Choudary*  
Signature of the guide  
15/6/20

*J. Lakshmi*  
Signature of the H.O.D  
15/6/20

*[Handwritten Signature]*

**Signature of the External**

**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

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CERTIFICATE

This is to certify that the major project report entitled "STABILIZATION OF EXPANSIVE SOIL BY USING SHREDDED WASTE PLASTIC" submitted by S. SHASHANK RANGANATH (17X45A0106), K. CHANDU (17X45A0113), G.SURESH (17X45A0115) and R. SIRISHA (17X45A0124) as a record of the work carried out by them, is accepted as a bonafied work report submission in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** during the academic year 2019-2020.

*P.S.V. Bharath*  
16/6/20  
**Ms. P.S.V BHARATH**  
(Signature of the guide)

*T. Satyanarayana*  
16/6/20  
**Dr. T .SATYANARAYANA**  
(Signature of the H.O.D)

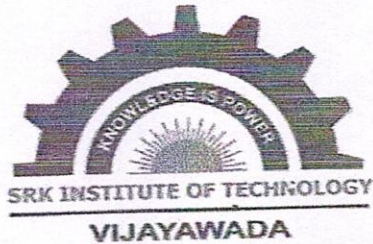
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ENIKEPADU, VIJAYAWADA-521 108.

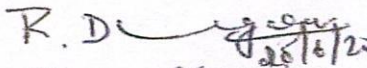
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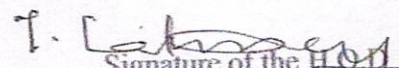
DEPARTMENT OF CIVIL ENGINEERING




CERTIFICATE

This is to certify that the major project entitled "PLANNING ANALAYSIS & DESIGN OF A SHOPPING MALL" submitted by A.GOWTHAMI(17X45A0111),A.NAVNEETH(17X45A0129), K.RAVIBABU (17X45A0136),MD.ABHU SUFIYAN(17X45A0149), as a record of work carried out by them, is accepted as a bonafied work report submission in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the A.Y 2017-2020.

  
Signature of the guide  
R. DURGA RAO, M. Tech

  
Signature of the HOD  
Dr. T. SATYANARAYANA, Ph.D. 16/6/20

Signature of the External

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108

**S.R.K. INSTITUTE OF TECHNOLOGY**

(Affiliated to JNTU KAKINADA, Approved By AICTE)


(As ISO 9001:2008 Certified Institute)

**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the major project report entitled **EXPERIMENTAL STUDY ON OPTIMAL REPLACEMENT OF FINE AGGREGATE WITH IRON SLAG AND CEMENT WITH POTTERY CLAY POWDER IN CONCRETE** submitted by G. SAI LAKSHMAN (17X45A0101), M. ANAND SAI KUMAR(17X45A0110), A D. RAMA KRISHNA(17X45A0133), M.SIVA PAVAN KUMAR (17X45A0144) as a record of the work carried out by them, is accepted as a bonafied work report submission in the partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY during the academic year 2019-2020.

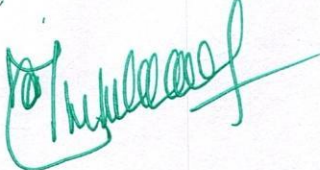
  
Signature of the project guide

17/6/2020

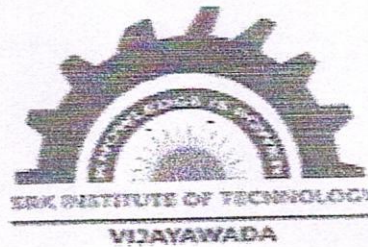
  
Signature of the H.O.D

19/6/20

Signature of the External

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108,

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(As ISO 9001:2008 Certified Institute)  
Enikepadu, Vijayawada-521108, Andhra Pradesh.  
**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the major project report entitled "DESIGN AND PROPOSAL OF SEWAGE TREATMENT PLANT FOR SRKIT" submitted by, M. RAMAKRISHNA (17X45A0103), JAFER SADIK (17X45A0123), P. DURGESWARARAO (17X45A0126), B. LEELA PRAKASH (17X45A0135) as a record of work carried out by them is accepted as a bonafied work report submission in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2019-2020.

*Jee*  
*16/6/20*  
Sri. J. PURNA CHANDRA RAO, M.Tech  
(Signature of the Project Guide)

*T. Satyanarayana*  
Dr. T. SATYANARAYANA, Ph.D.  
(Signature of the H.O.D) *16/6/20*

Signature of the External

*Principle*

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

**S.R.K.INSTITUTE OF TECHNOLOGY,**  
(Affiliated to JNTU KAKINADA, Approved By AICTE)

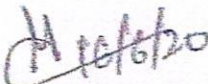
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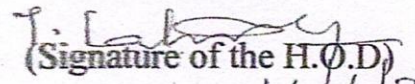
**DEPARTMENT OF CIVIL ENGINEERING**



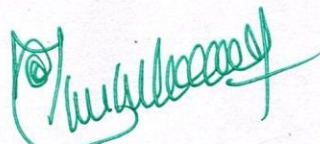
**CERTIFICATE**

This is to certify that the project work entitled "**EXPERIMENTAL STUDY ON STRENGTH PROPERTIES OF TERNARY BLENDED CONCRETE WITH CHEMICAL CURING**" submitted by Mr. M.V.POTHURAJU (17X45A0104), Mr. DV.S.HEMANTH(17X45A0128), Mr.N.VEERA POTHURAJU(17X45A0130), Mrs.V.SUSANYA( 17X45A0138) as a record of the work carried out by them, is accepted as a bonheaded work report submission in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology** in during the A.Y 2019-2020.

  
(Signature of the project guide)  
(A.KRISHNA PRIYA)

  
(Signature of the H.O.D)  
16/6/20  
(Dr.T. SATYA NARAYANA)

Signature of the External

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

**S.R.K INSTITUTE OF TECHNOLOGY,**  
**(Affiliated to JNTU KAKINADA, Approved By AICTE)**  
**(As ISO 9001:2008 Certified Institute)**  
**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the project work entitled "EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF FINE AGGREGATE WITH PLASTIC GRANULES IN CONVENTIONAL CONCRETE" submitted by T.SHANMUKH SAI KUMAR {17X45A0108}, MD.MURTHUJA {17X45A0112}, K.GOWTHAM {17X45A0120}, M.GURU BRAHMAN {17X45A0143} as a record of the work carried out by them is accepted as a bonified work report submission in partial fulfillment of the requirements for the award of degree of Bachelor of technology in CIVIL ENGINEERING during the academic year 2019-2020.

G. Sahithy  
16/6/2020  
Project Guide

J. Lakshmi  
Head of the Department  
16/6/20

A handwritten signature in green ink, likely of the Principal, is located in the bottom right area of the page.

**Signature of the External**

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

**S.R.K INSTITUTE OF TECHNOLOGY**

**DEPARTMENT OF CIVIL ENGINEERING**

**(Affiliated to JNTUK KAKINADA, Approved by AICTE)**



**CERTIFICATE**

This is to clarify that the major project entitled "STABILIZATION OF EXPANSIVE SOIL BY USING QUARY DUST AND RECORN 3S FIBER" being submitted by K.PAVAN KALYAN, G.DIVYA, A.BHARGAV RAM, MARAVIND SAI is a bonafide work carried out under the guidance of Mr.M.KARTHIK KUMAR in the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology during the academic year 2019-2020.

*Karthik*  
16/6/20  
Signature of the Guide

*T. Lakshay*  
Signature of the HOD  
16/6/20

Signature of the External

*Principals*

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.




**S.R.K INSTITUTE OF TECHNOLOGY, AFFILIATED TO  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,  
KAKINADA**

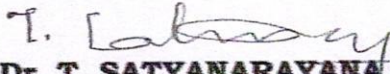


**CERTIFICATE**

This is to certify that dissertation entitled "design of runway pavement & taxiway for Vijayawada international" being submitted by (K.Sai ram (17X45A0107), N.Manasa (17X45A0116), MD.Rayyan (17X45A0118), SK.Mastan (17X45A0141)) in partial fulfillment of requirements for the award of the degree of bachelor of technology in Civil Engineering to S.R.K Institute of Technology affiliated under Jawaharlal Nehru technological university, Kakinada, is a record of bonafide work carried out by him under my guidance and supervision. the degree of **Bachelor of technology** During the academic year 2019-2020

  
**K.CHANDRAPADMAKAR** 16/6/20

Project Guide

  
**Dr. T. SATYANARAYANA Ph.D.** 16/6/20

Head of the Department



**Signature of the External**

**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

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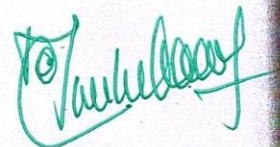
This is to certify that the major project report entitled "OPTIMUM REPLACEMENT OF COPPER SLAG WITH FINE AGGREGATE IN M25 CONCRETE" submitted by V. SAI SUMANTH (17X45A0121), U. CHAITANYA (17X45A0127), P. GANESH (17X45A0137) K. VAJRA PAL (17X45A0145) as a record of the work carried out by them, is accepted as a bonafied report submission in the partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Civil Engineering during the academic year 2019-2020.

  
Mr. K. KIRAN

Signature of the guide

  
T. SATYA NARAYANA 16/6/20  
Signature of the H.O.D

Signature of the External



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SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

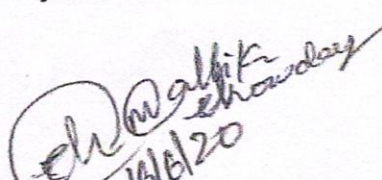
**S.R.K INSTITUTE OF TECHNOLOGY**  
(Affiliated to JNTU KAKINADA, Approved by AICTE)  
(ISO 9001 Certified institution)

**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that this project report entitled “ **PARTIAL REPLACEMENT OF FINE AGGREGATES WITH QUARRY DUST AND COARSE AGGREGATES WITH DEMOLISHED CONCRETE WASTE IN M<sub>20</sub> GRADE CONCRETE**” being submitted by **Mr. A. DURGA BHARAT , Mr. D. PREM KIRAN , Mr. M. DEVENDRA , Mr. K . ANIL KUMAR**, is a bonafied work carried out in the partial fulfilment of the requirements of the award of degree of **Bachelor of Technology** during academic year **2019-2020**.

  
CH. MALLIKA CHOWDARY, M.Tech.

**SIGNATURE OF THE GUIDE**

  
Dr. T. SATYANARAYANA, Ph.D.

**SIGNATURE OF THE HOD**

**SIGNATURE OF THE EXTERNAL**



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**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

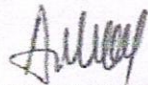
**S.R.K.INSTITUTE OF TECHNOLOGY**  
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(As ISO 9001:2008 Certified Institute)

**DEPARTMENT OF CIVIL ENGINEERING**



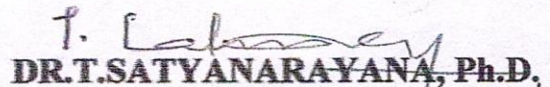
**CERTIFICATE**

This is to certify that the major project report entitled "EXPERIMENTAL STUDY ON PROPERTIES OF CONCRETE BY ADDING JAGGERY" submitted by K. Vijay (17X45A0131), Ch. Venugopal (17X45A0142), N. Deepakh (17X45A0147), Sk. Jameer Ahmed (17X45A0151) as a record of the work carried out by them, is accepted as a bonafied report submission in the partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in CIVIL ENGINEERING** during the academic year **2019-2020**.



**A. ANOOP KUMAR**

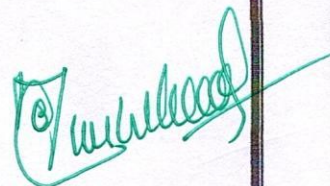
(Signature of the Project guide)



**DR.T.SATYANARAYANA, Ph.D.**

(Signature of the H.O.D) 16/6/20

Signature of the External



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ENIKEPADU, VIJAYAWADA-521108.

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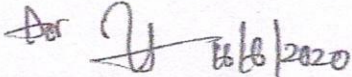
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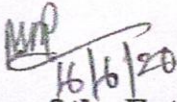


CERTIFICATE

This is to certify that the Major Project Report entitled  
“**VARIATION OF COMPACTIVE EFFORTS IN SWELLING SOIL**”  
submitted by **K.SHAFI (17X45A0122), CH.SAI RAM (17X45A0134), K.SIRI  
(17X45A0140), S.VENU GOPAL REDDY (17X45A0154)** as a record of work  
report submission in partial fulfilment of the requirements for the award of degree  
of **Bachelor of Technology** during the academic year 2017-2020

  
**Smt.A. THANUSREE, M.Tech**  
Project guide

  
**Dr.T.SATYANARAYANA**  
Head of the department 16/6/20

  
**Signature of the External**

  
**PRINCIPAL**  
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

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## DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the major project entitled "UTILIZATION OF RICE HUSK ASH IN CONCRETE AS A PARTIAL REPLACEMENT OF CEMENT" submitted by D. GOPI CHAND (17X45A0117), E. PAVAN KUMAR (17X45A0139), K.KIRANMAI (17X45A0152), and L.V.SATYANARAYANA (17X45A0153) as a record of the work carried out by them, is accepted as a bonafide work report submission in partial fulfillment of the requirements for the award of the degree of **Bachelor Of Technology** during the academic year 2019-2020.

*N. K. R. 10/6/20*  
Ms.N. Kranthi Rekha.M. Tech

SIGNATURE OF THE GUIDE

*T. Sathyanarayana*  
Dr. T. Sathyanarayana. Ph. D.

*16/6/20*  
SIGNATURE OF THE HOD

SIGNATURE OF THE EXTERNAL

*[Handwritten Signature]*

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART HOME SECURITY SYSTEM USING ARDUINO UNO" is a bonafied record of work carried out by **KANITHI NAVEEN (19X41A0201)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electrical and Electronics Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

*Dr. A. Padmaja*  
10/12/2020  
**Dr. A.PADMAJA**  
(Head of Department)

*R. Srinivas*  
**EXTERNAL EXAMINER**

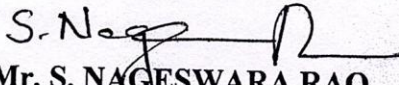
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**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

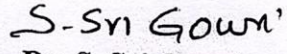
**CERTIFICATE**

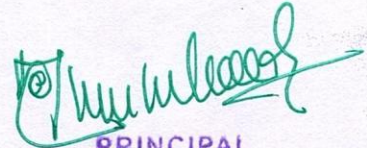
This is to certify that the project report entitled "**Application of a Three-Phase Multilevel Inverter for DTC Based Induction Motor Drive**" is a bonafide record of work carried out by.

**J.VEERA BHAVANI** (16X41A0203),  
**P.VARUN KUMAR** (17X45A0219),  
**N.JAGADEESH** (17X45A0212),  
**M.SAICHAND** (16X41A0205)

under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electrical and Electronics Engineering of Jawaharlal Nehru Technological University, Kakinada.**

  
**Mr. S. NAGESWARA RAO**  
(PROJECT GUIDE)

  
**Dr. S. Sri Gowri**  
(HEAD OF THE DEPARTMENT)

  
**PRINCIPAL**  
**SRK INSTITUTE OF TECHNOLOGY**  
**ENKEPADU, VIJAYAWADA**



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## CERTIFICATE

This is to certify that the project report entitled "A HYBRIDGREEN HOUSE MANGEMENT BY WIRLESS NETWORKING" is a bonafide record of work carried out by **M.NAGA JAYASRI(16X41A0206),M.BALA CHANDRA SEKHAR (17X45A0210), P.GOPALA KRISHNA(17X45A0221),G.SAI KRISHNA CHANDU(17X45A0211)** under the guidance and supervision in partial fulfillment of the requirements for award of the degree of bachelor of technology in **ELECTRICAL AND ELECTRONIC ENGINEERING** of **Jawaharlal Nehru technological university , Kakinada**

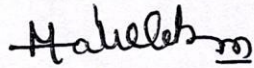
*K. Satyanarayana*  
**Mr. K. SATYANARAYANA**  
(PROJECT GUIDE)

*S. Sri Gowri*  
**Dr. S.SRI GOWRI**  
(HEAD OF THE DEPARTMENT)

*[Signature]*  
**PRINCIPAL**  
**SRK INSTITUTE OF TECHNOLOGY**  
**ENIKEPADU, VIJAYAWADA**

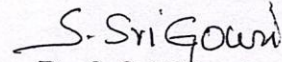
CERTIFICATE

This is to certify that the project report entitled “IMPLEMENTATION OF Z-SOURCE INVERTER FOR SOLAR POWERED PMBLDC MOTOR” is a bonafide record work carried out by MD.Suleman (17X45A0201), CH.NagaRavindra (16X41A0201), Y.Lavanya (17X45A0225), N.Krupa (16X41A0207), under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electrical and Electronics Engineering of Jawaharlal Nehru Technological University, Kakinada.



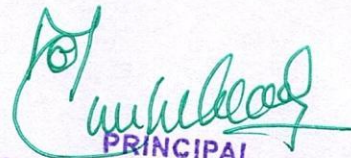
Ms. T.Maha Lakshmi

(PROJECT GUIDE)



Dr. S. Sri Gowri

(HEAD OF THE DEPARTMENT)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

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ENIKEPADU, VIJAYAWADA

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



## CERTIFICATE

This is to certify that the project report titled "GSM BASED POWER THEFT DETECTION USING ARDUNIO" is a bonafide record of work carrier out by

K.V SAI RAKESH	[17X45A0202]
B.VAMSI	[17X45A0226]
A.GOWTHAMI	[17X45A0227]
S.SIVA SAI KUMAR	[17X45A0208]

In partial fulfillment of the requirements for the Award of Bachelor of Technology degree, in **ELECTRICAL AND ELECTRONICS ENGINEERING** of Jawaharlal Nehru Technological University, Kakinada.

*N.E.K. Chandra*  
Signature of guide

(Mr. N. E K CHANDRA)

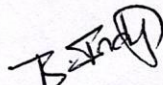
*S. Sri Gowri*  
Head of the department

(Dr. S. SRI GOWRI)

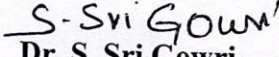
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PRINCIPAL  
SRK INSTITUTE OF TECHNOLOGY  
ENIKEPADU, VIJAYAWADA

## CERTIFICATE


This is to certify that the project report entitled "ISOLATED BIDIRECTIONAL BATTERY CONVERTER CONTROL FOR STANDALONE SOLAR PV APPLICATIONS" is a bonafide record of work carried out by J.S.K.CHAITANYA (17X45A0204),N.MURALI KRISHNA (17X45A0223),N.OMKAR (17X45A0206),G.SUNIL KUMAR (16X45A202), under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electrical and Electronics Engineering** of Jawaharlal Nehru Technological University, Kakinada.

  
Ms. B Indraja

(PROJECT GUIDE)

  
Dr. S. Sri Gowri

(HEAD OF THE DEPARTMENT)

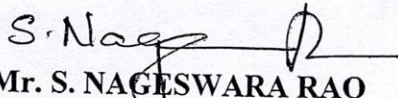
  
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SRK INSTITUTE OF TECHNOLOGY  
ENIKEPADU, VIJAYAWADA

## CERTIFICATE

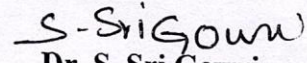
This is to certify that the project report entitled “**Arduino Based Temperature and Humidity control for Condensation on Wettability Engineered Surfaces**” is a bonafide record of work carried out by

<b>M.VENKATA MANIDEEP</b>	<b>(17X45A0205)</b>
<b>SK.MOHAMED SHARIEF</b>	<b>(17X45A0217)</b>
<b>CH.KARTHIK VIJAY SAI</b>	<b>(17X45A0203)</b>
<b>N.VENKATA KRISHNA</b>	<b>(17X45A0213)</b>

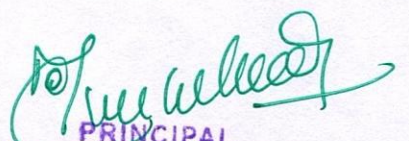
under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electrical and Electronics Engineering of Jawaharlal Nehru Technological University, Kakinada.**

  
Mr. S. NAGESWARA RAO

(PROJECT GUIDE)

  
Dr. S. Sri Gowri

(HEAD OF THE DEPARTMENT)

  
PRINCIPAL  
SRK INSTITUTE OF TECHNOLOGY  
ENIKEPADU, VIJAYAWADA

## CERTIFICATE

This is to certify that the project report entitled “Matlab/Simulink Model Of Multi-Machine (3-Machine, 9-Bus) Wscc System Incorporated With Hybrid Power Flow Controller” is a bonafide record of work carried out by

**N. Durga Prasad** (17X45A0207)

**L. Chakradhar** (17X45A0216)

**L. Revathi** (16X41A0204)

**S. Durga Srilekha** (16X41A0208)

under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electrical and Electronics Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**



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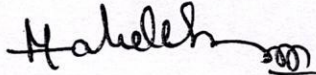
*K. Satyanarayana*  
**Mr.K.Satyanarayana**  
(PROJECT GUIDE)

*S. Sri Gowri*  
**Dr. S. Sri Gowri**  
(HEAD OF THE DEPARTMENT)

*[Signature]*  
PRINCIPAL  
SRK INSTITUTE OF TECHNOLOGY  
ENIKEPADU, VIJAYAWADA

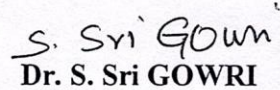
**CERTIFICATE**

This is to certify that the project report entitled “**High Voltage Gain Interleaved Boost Converter with Neural Network Based MPPT Controller for Fuel Cell Based Electric Vehicle Applications**” is a bonafide record of work carried out by **SK.IMRAN KHAN(17X45A0214), P.MANOJ(17X45A0215), M.RAVINDRA BAU (17X45A0220), K.PRAVEEN KUMAR(17X45A0222)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electrical and Electronics Engineering of Jawaharlal Nehru Technological University, Kakinada.**



**Ms. T.MAHALAKSHMI**

(PROJECT GUIDE)

  
**Dr. S. Sri GOWRI**

(HEAD OF THE DEPARTMENT)



PRINCIPAL

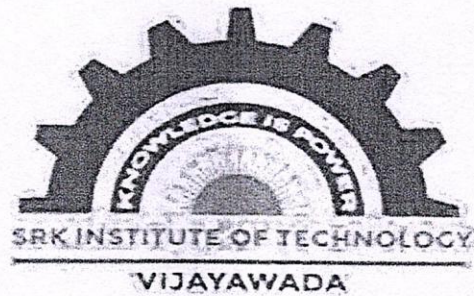
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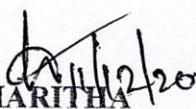
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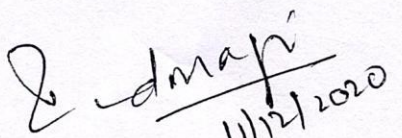
DEPARTMENT OF SCIENCES & HUMANITIES

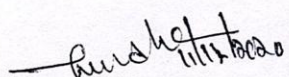


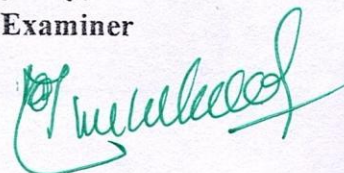
**CERTIFICATE**

This is to certify that the Engineering Exploration Project report entitled "AUTOMATIC HAND SANITIZER DISPENSER " submitted by A.Gopi Raju(19X41A0301), Ch.J.N.V. Sai Pavan(19X41A0302), D.Jonty(19X41A0303), G. Sarath Chandra(19X41A0304), as a record of the work carried out by them, is accepted as a bonafied wok report submission in partial fulfillment of the requirements for the award of Credits in First year Second Semester of Bachelor of Technology in Mechanical Engineering during the academic year 2019-2020.

  
D.HARITHA  
Internal examiner

  
Dr.A. PADMAJA  
H.O.D, S&H

  
External Examiner



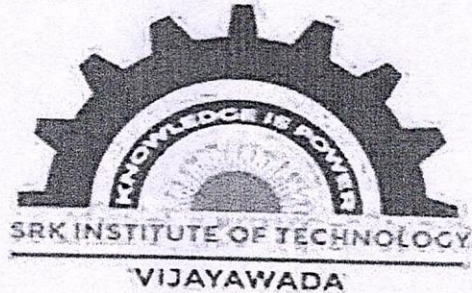


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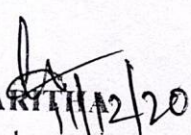
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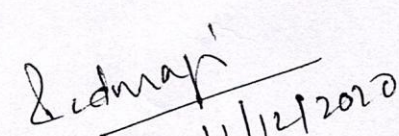
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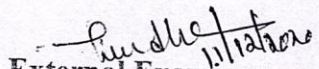


## CERTIFICATE

This is to certify that the Engineering Exploration Project report entitled "AUTOMATIC HAND SANITIZER DISPENSER " submitted by B.Uma Shankar(19X41A0305) N. GANESH(19X41A0307), N.Sai Kesava Reddy(19X41A0308), S.Devi Prasad(19X41A0309), as a record of the work carried out by them, is accepted as a bonafied wok report submission in partial fulfillment of the requirements for the award of Credits in First year Second Semester of Bachelor of Technology in Mechanical Engineering during the academic year 2019-2020.

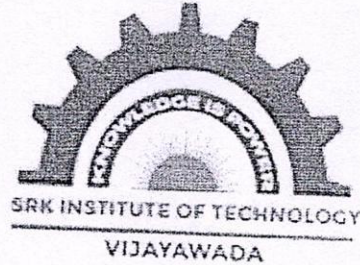
  
D.HARITHA  
Internal examiner

  
Dr.A. PADMAJA  
H.O.D, S&H

  
External Examiner

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

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**DEPARTMENT OF MECHANICAL ENGINEERING**

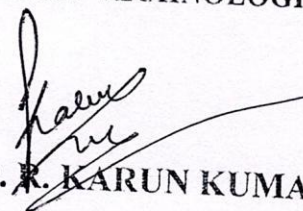


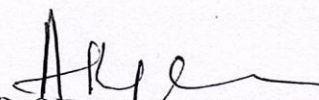
**CERTIFICATE**

This is to certify that this project work entitled "STUDY ON POWER GENERATION SHOCK ABSORBER" is the benefited record of work done BY

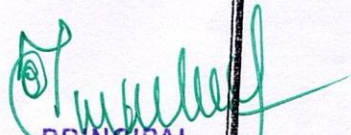
AKKINENI TEJA	(16X41A0302)
GOLLA ANKA BABU	(16X41A0316)
DEVENENI BALAJI	(16X41A0309)
SIDDINENI DILEEP	(16X41A0341)
PALAKEETI GURU TEJA	(16X41A0334)

who carried out the project work under our guidance and supervision submitted in partial fulfilment of requirements for the award of the degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.

  
Mr. R. KARUN KUMAR, M. Tech  
ASSISTANT PROFESSOR  
PROJECT GUIDE

  
HEAD OF THE DEPARTMENT  
MECHANICAL

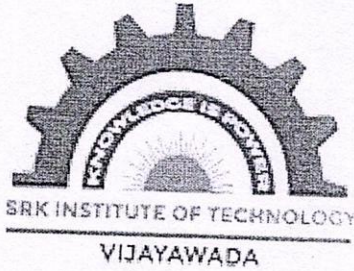
EXTERNAL EXAMINER

  
PRINCIPAL

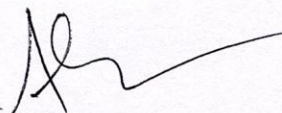
**S.R.K INSTITUTE OF TECHNOLOGY**

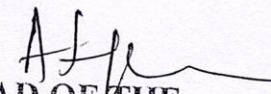
Approved by AICTE, New Delhi & Affiliated to JNTUK KAKINADA,  
ENIKERAPU, VIJAYAWADA, Krishna Dist- 521108, Andhra Pradesh.

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This is to certify that this project work entitled "EXPERIMENTAL STUDY ON IGUS 4-AXIS ROBOT" is the benefited record of work done by G.TARUN VENKATA SAI (16X41A0320), T.RAJA GOPAL (16X41A0346) who carried out the project work under our guidance and supervision submitted in partial fulfillment of requirements for the award of the degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** by **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.**

  
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**(A.STANLY KUMAR)**

  
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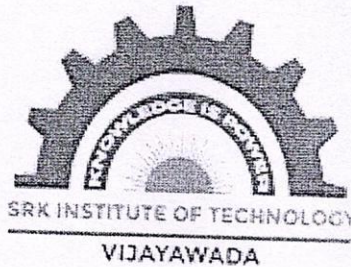
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DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that this project work entitled "EXPERIMENTAL STUDY ON FOUR WHEEL STEERING MECHANISM WITH STATIC ANALYSIS" is the benefited record of work done by

M.NAVEEN(16X41A0329), M.ABRAHAM LINCOLN(16X41A0330),  
N.SIVAHARSHA(16X41A0333), S.GOWTHAM(16X41A0343) who carried out the project work under our guidance and supervision submitted in partial fulfilment of requirements for the award of the degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** by **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.**

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**(G.DURGA PRASAD)**  
**(ASSISTANT PROFESSOR)**

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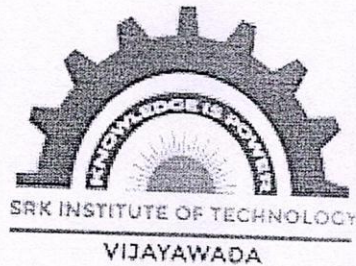
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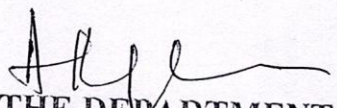
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This is to certify that this project work entitled "STUDY OF BOILER AND AUXILIARIES OF 500MW THERMAL POWER PLANT" is the benefited record of work done BY B. HARSHITH (16X41A0303), E. SRINIVAS (16X41A0312), E.N.SAI CHANDHU (16X41A0313), G. SRIKANTH (16X41A0317), who carried out the project work under our guidance and supervision submitted in partial fulfilment of requirements for the award of the degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** by **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.**

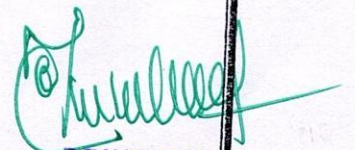
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**Y. DURGA BHAVANI, M.Tech**

  
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**A. STANLY KUMAR, M.Tech., (Ph.D)**

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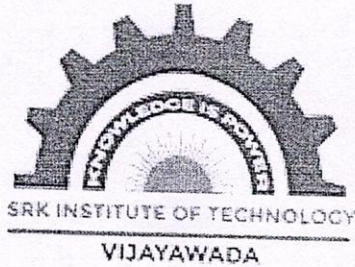
  
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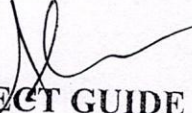
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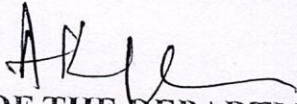
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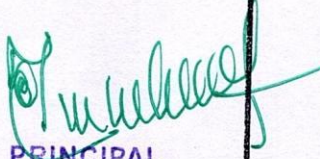


This is to certify that this project work entitled "EXPERIMENTAL STUDY ON IGUS 4-AXIS ROBOT FOR PALLETIZING OPERATION" is the benefited record of work done by CH.VINAY SAI KRISHNA (16X41A0306), K.N.V.SAI SUNNIDH (16X41A0326), MITUL ASHOK ASODARIYA (16X41A0331), S.NAGA TEJA (16X41A0344), who carried out the project work under our guidance and supervision submitted in partial fulfillment of requirements for the award of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.

  
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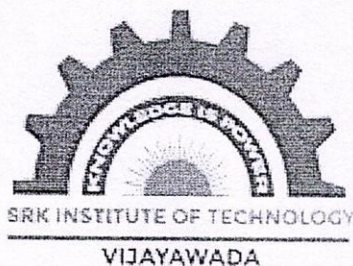
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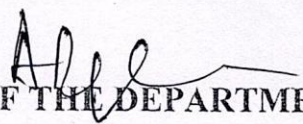
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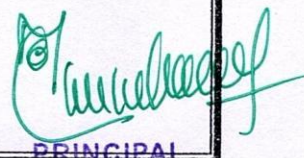


This is to certify that this project work entitled "ROCKERBOGIE MECHANISM" is the benefited record of work done by T. MANI BABU (16X41A0347), SK. ABBAS ALI (16X41A0339), T. KARTHIK (16X41A0345), V. VINAY (16X41A0350), who carried out the project work under our guidance and supervision submitted in partial fulfillment of requirements for the award of the degree BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.

  
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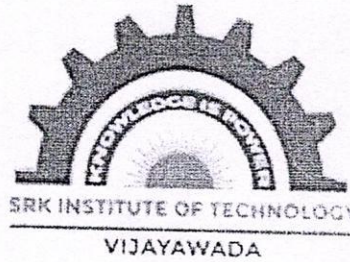
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ENIKEPADU, VIJAYAWADA, KRISHNA DIST- 521108, ANDHRA PRADESH

2016-2020

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This is to certify that this project work entitled "EFFECT OF WELDING PARAMETERS ON THE WELD" is the benefited record of work done BY

POKALA.RAJA SEKHAR	(15X41A0353)
PARASA.VARSHITH	(16X41A0335)
PERNINI. RANSHINADH HEATER	(16X41A0336)
PILLI. HARSHA VARDHAN	(16X41A0337)
SIRIPURAPU. STYEN SATYA KIRAN	(16X41A0342)

who carried out the project work under our guidance and supervision submitted in partial fulfilment of requirements for the award of the degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.

Mr.A.STANLY KUMAR M.Tech

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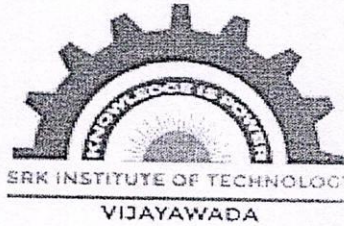


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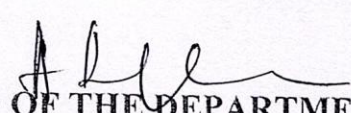
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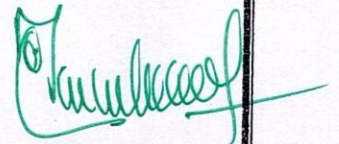


This is to certify that this project work entitled "EXPERIMENTAL STUDY ON IGUS 4-AXIS ROBOT ON STACKING OPERATION" is the benefited record of work done BY ABDUL RAFEEQ (16X41A0301), G.NAGA PUSHPA SAI (16X41A0319), J.VENKATESWARA RAO (16X41A0321) who carried out the project work under our guidance and supervision submitted in partial fulfillment of requirements for the award of the degree BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.

  
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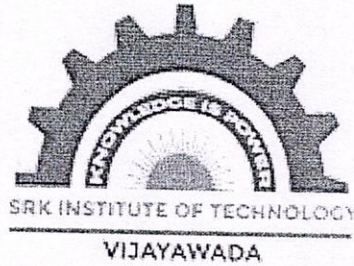
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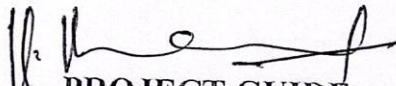
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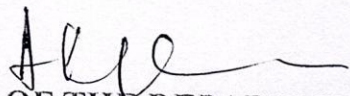
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This is to certify that this project work entitled "STUDY ON THE EFFICIENCY IMPROVEMENT OF THE AIR- PREHEATERS" is the benefited record of work done BY A.N.V.JAGADEESH KUMAR (16X41A0304), CH.B.N.TEJA (16X41A0305), D.BALASUBRAHMANYAM (16X41A0308), G.SRINIVAS REDDY (16X41A0314), who carried out the project work under our guidance and supervision submitted in partial fulfilment of requirements for the award of the degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.

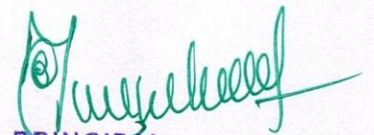
  
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V. BALA CHINA LINGAM ME

  
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A. STANLY KUMAR M.Tech., (P.HD)

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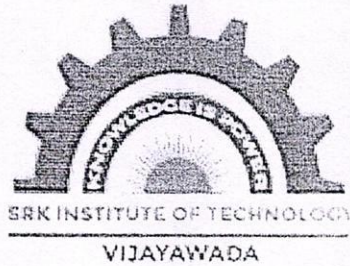
  
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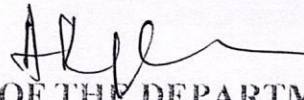
This is to certify that this project work entitled "PERFORMANCE AND MAINTENANCE OF BOWL MILLS IN THERMAL POWER PLANT" is the benefited record of work done BY D. MOHAN SAI VAMSI (16X41A0311), G. SIVA NAGENDRA BABU (16X41A0315), G. AJAY KUMAR (16X41A0318), K. VINETHI CHOWDARY (16X41A0323), who carried out the project work under our guidance and supervision submitted in partial fulfilment of requirements for the award of the degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** by **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.**



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**G. DURGA PRASAD, M.Tech**

(Assistant Professor)

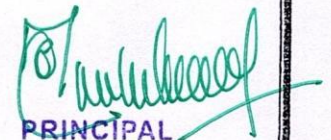


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**A. STANLY KUMAR, M.Tech., (Ph.D)**

(Associate Professor)

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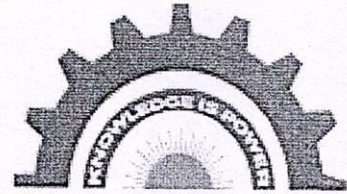
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This is to certify that this project work entitled "PERFORMANCE ANALYSIS OF 210MW STEAM  
TURBINE" is the benefited record of work done by

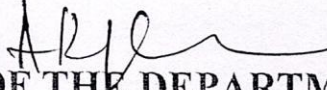
SD.ASIF (17X45A0311)

K.ARUN KUMAR (17X45A0313)

SK.RIZWAN BASHA (17X45A0314)

Who carried out the project work  
under our guidance and supervision submitted in partial fulfilment of requirements for the award of the  
degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** by  
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(A.STANLY KUMAR)

  
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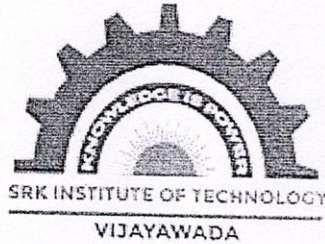
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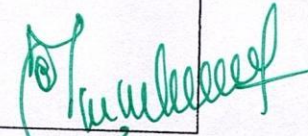


This is to certify that this project work entitled "FABRICATION AND TESTING FOR MECHANICAL PROPERTIES ON COIR & BROOM GRASS HYBRID NATURAL FIBER COMPOSITES" is the benefited record of work done BY P.PHANIDATTA (17X45A0302), T.LOKESH (17X45A0303), V.DIMPUL VAMSI (17X45A0304), B.NAGASAI (17X45A0330) who carried out the project work under our guidance and supervision submitted in partial fulfilment of requirements for the award of the degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** by **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.**

  
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**(D. SREE RAM PRASAD)**

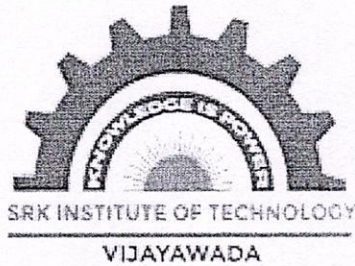
  
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**(A. STANLY KUMAR) M.Tech, (P.HD)**

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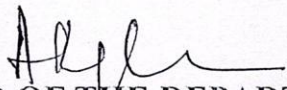
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DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that this project work entitled "THERMO -ACOUSTIC REFRIGERATION SYSTEM" is the bonafide record of work done by B.NAVEEN (17X45A0326), M.SAI KRISHNA (17X45A0329), B.VENKATA KRISHNA REDDY (17X45A0340), M.GOPI (17X45A0350), who carried out the project work under our guidance and supervision submitted in partial fulfillment of requirements for the award of the degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.

  
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(D.HARITHA)

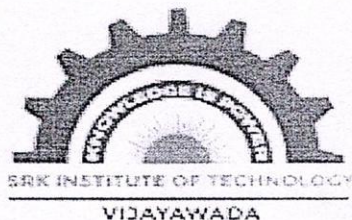
  
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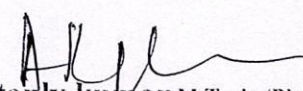
This is to certify that the project entitled "**DESIGN AND FABRICATION OF MINI CONVEYOR USING GENEVA MECHANISM**" being submitted by

<b>P.Tokesh</b>	<b>17X45A0339</b>
<b>G.Gautham Reddy</b>	<b>17X45A0321</b>
<b>G.Venkanna Babu</b>	<b>17X45A0338</b>
<b>V.Sai Kumar</b>	<b>17X45A0358</b>
<b>B.Veera Bhadru</b>	<b>17X45A0333</b>

In partial fulfillment for the award of degree of **Bachelor of Technology (B.Tech)** in **MECHANICAL ENGINEERING** is a record of confide work carried out by them under my guidance during the academic year **2019-2020** and it has been found worthy of acceptance according to the requirements of the university.

  
**Mr.D Rognatha Rao., M.Tech.,(Ph.D).**

**PROJECT GUIDE**  
**ASSISTANT PROFESSOR**

  
**Mr.A Stanley Kumar M.Tech.,(Ph.D).**

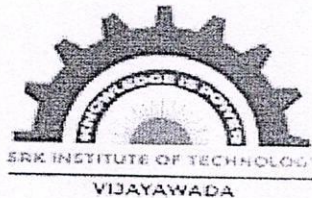
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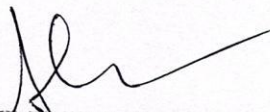


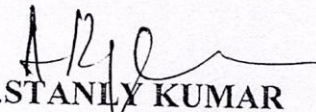
**CERTIFICATE**

This is to certify that the project entitled "ANALYSIS OF MECHANISMS USING DYMOLA BEHAVIOR MODELING" being submitted by

A. KESAVA MAHESH	17X45A0334
N. NAVEEN KUMAR	17X45A0335
U. MANOHAR	17X45A0336
SK MOHAMMAD YASIN	17X45A0341

In partial fulfilment for the award of degree of **Bachelor of technology (B.Tech)** in **MECHANICAL ENGINEERING** is a record of confide work carried out By them under my guidance during the academic year **2019-2020** and it has been found worthy of acceptance according to the requirements of the university.

  
**MR. A. STANLY KUMAR** M.E., M.Tech, (Ph.D)  
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**MR. A. STANLY KUMAR**  
HEAD OF THE DEPARTMENT

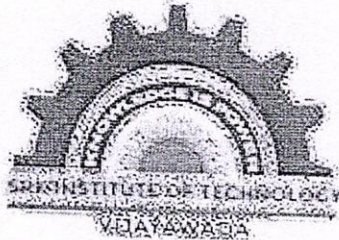
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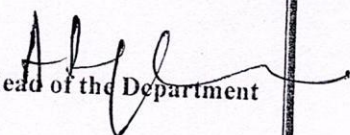
This is to certify that the project report entitled “**COMPUTATIONAL FLUID DYNAMIC ANALYSIS ON SCRAM JET COMBUSTION CHAMBER**”

being submitted By

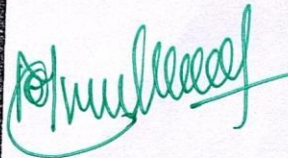
<b>DARA.RAJU</b>	<b>(17X45A0357)</b>
<b>S.CHENNAKESAVA AJAY</b>	<b>(17X45A0352)</b>
<b>R.HEMANTH KUMAR</b>	<b>(17X45A0360)</b>
<b>P.SRIRAM VARA PRASAD</b>	<b>(17X45A0361)</b>

In partial fulfillment for the award of the Degree of **Bachelor of Technology (B-Tech)** In **MECHANICAL ENGINEERING** is record of Bonifide work carried out by them under my guidance during the academic year **2019-2020** and it has been found worthy of acceptance according to the requirements of the university.

Guide

  
Head of the Department

External Examiner

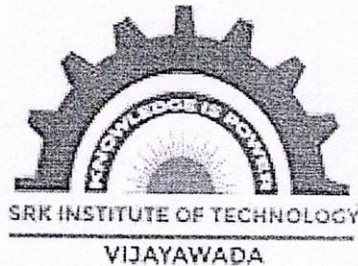
  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

# S.R.K INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to JNTU KAKINADA.

ENIKEPADU, VIJAYAWADA, Krishna Dist. - 521108, Andhra Pradesh.

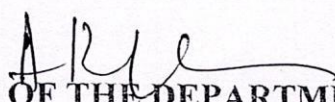
## DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that this project work entitled "EXPERIMENTAL STUDY ON IGUS 4-AXIS ROBOT ON PICK AND PLACE OPERATION USING VACCUM GRIPPER" is the benefited record of work done BY S. AVINASH REDDY (17X45A0355), M. VENKATESH (17X45A0351), M. PRAVEEN (17X45A0301), SK. MOHAMMAD ISMAIL (17X45A0308) who carried out the project work under our guidance and supervision submitted in partial fulfillment of requirements for the award of the degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** by **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.**

  
PROJECT GUIDE

(A. STANLY KUMAR)

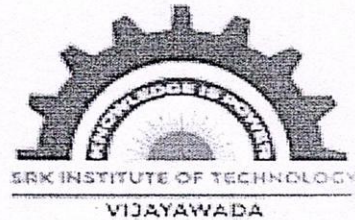
  
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

  
PRINCIPAL

SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

**SRK INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that the project entitled – DESIGN ANALYSIS OF HELICOPTER ROTOR BLADES being submitted by

**K.SAI ABHINAV**

**15JP1A0362**

In partial fulfilment for the award of degree of Bachelor of technology (B. Tech) in **MECHANICAL ENGINEERING** is a record of confide work carried out by them under my guidance during the academic year **2017-2020** and it has been found worthy of acceptance according to the requirements of the university.



**Sri.G.DURGA PRASAD, M. Tech**

ASSISTANT PROFESSOR

PROJECT GUIDE



HEAD OF THE DEPARTMENT

MECHANICAL

(EXTERNAL EXAMINER)



PRINCIPAL

SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

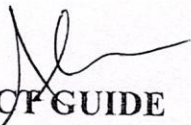
# S.R.K INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to JNTU KAKINADA,  
ENIKEPADU, VIJAYAWADA – 521108, ANDHRA PRADESH, INDIA.


DEPARTMENT OF MECHANICAL ENGINEERING




This is to certify that this project work entitled "INSTALLING OF INDUSTRIAL ROBOT AND CORRECTION OF ROBOT END EFFECTOR GRIPPER & IMPLEMENTATION OF SENSOR TO AVOID MULTIPLE LOAD DURING PRODUCTION" is the benefited project and record work done by M.NITHESH KIRAN (16X41A03280), who carried out the project under my guidance and supervision submitted in the partial fulfillment of requirements for the award of the degree in BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING BY JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA.

  
PROJECT GUIDE

Stanly Kumar, M. Tech

  
HEAD OF THE DEPARTMENT  
(MECHANICAL ENGINEERING)

EXTERNAL EXAMINER

  
PRINCIPAL

SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

ECEA

# SMART LIGHT AUTOMATION SYSTEM

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

In

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**B ABHILASH**

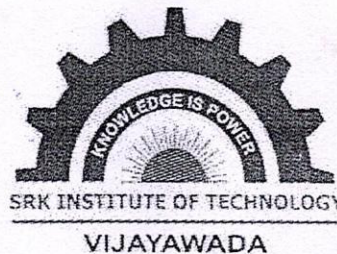
**(19X41A0406)**

**CH RAGHUNADH**

**(19X41A0409)**

**CH VISHNU PRAVEEN**

**(19X41A0410)**



**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**



**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "SMART LIGHT AUTOMATION SYSTEM" is a bonafied record of work carried out by **B ABHILASH (19X41A0406), CH RAGHUNADH REDDY (19X41A0409), CH VISHNU PRAVEEN (19X41A0410)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

*A. Padmaja*  
10/12/2020

**Dr. A.PADMAJA**  
Head of Department

*[Signature]*  
External Examiner

*[Signature]*  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

**A SMART TEMPERATURE MONITORING SYSTEM**

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

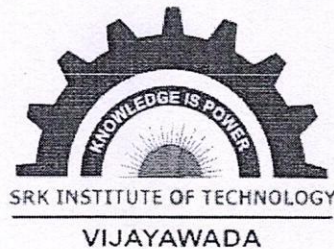
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**CH.SUDHARSAN  
D.BALASUBRAHMANYAM  
D.BALA DURGA RAO**

**(19X41A0412)  
(19X41A0413)  
(19X41A0414)**

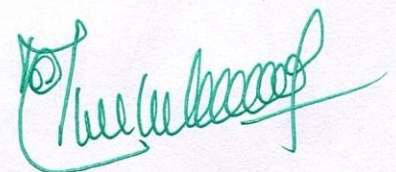


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

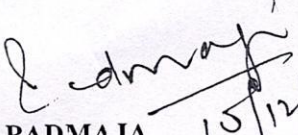
**December 2020**



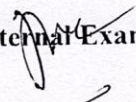
**PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

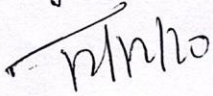
## CERTIFICATE

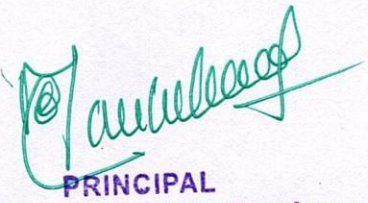
This is to certify that the engineering exploration project report entitled "A SMART TEMPERATURE MONITORING SYSTEM" is a bonafied record of work carried out by CH.SUDHARSAN (19X41A0412), D.BALASUBRAHMANYAM (19X41A0413), D.BALA DURGA RAO (19X41A0414) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
Dr. A.PADMAJA  
(Head of Department)

15/12/2020

  
External Examiner





PRINCIPAL  
SRK Institute of Technology  
NIKEPADU, VIJAYAWADA-521 108



# **A SMART DOOR OPENING SYSTEM USING ARDUINO**

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,  
KAKINADA**

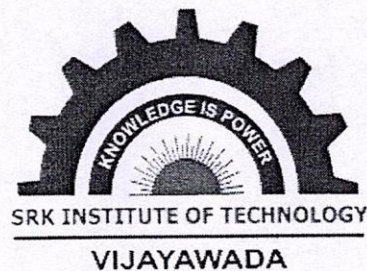
In partial fulfillment of the requirement for the award of the degree of

**BACHELOR OF TECHNOLOGY  
In  
ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**B. RAJANI  
CH. HEMA MOULIKA  
G. KUSUMA**

**(19X41A0408)  
(19X41A0411)  
(19X41A0417)**

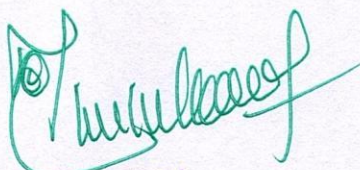


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**Enikepadu, Vijayawada-521108**

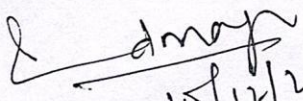
**Andhra Pradesh**

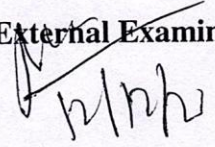
**December 2020**

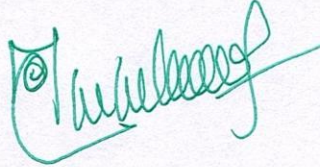
  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART DOOR OPENING SYSTEM USING AURDINO" is a bonafied record of work carried out by B.RAJANI (19X41A0408), CH.HEMA MOULIKA (19X41A0411), G.KUSUMA LAKSHMI (19X41A0417), under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of Jawaharlal Nehru Technological University, Kakinada.

  
Dr. A. PADMAJA  
Head of Department

  
External Examiner



# A SMART HOME SECURITY SYSTEM

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**D.JANARDHAN**

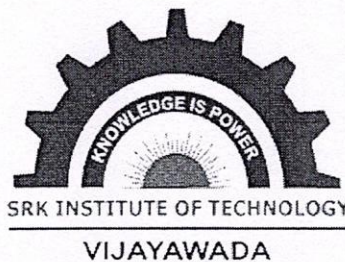
**(19X41A0415)**

**G.NARASIMHA REDDY**

**(19X41A0416)**

**G.MANIKANTA SAI KIRAN**

**(19X41A0418)**

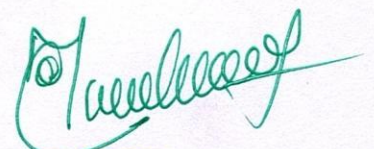


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**



**PRINCIPAL**

**SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART HOME SECURITY " is a bonafied record of work carried out by **D.JANARDHAN(19X41A0415), G.NARASIMHA REDDY(19X41A0416),G.MANIKANTA SAI KIRAN(19X41A0418)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

*A. Padmaja*  
10/12/2020

**Dr. A.PADMAJA**  
**Head of Department**

**External Examiner**

*[Signature]*  
12/12/20

*[Signature]*  
PRINCIPAL

**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

# SMART INDUSTRIAL ENVIRONMENTAL MONITORING AND CONTROLLING SYSTEM

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

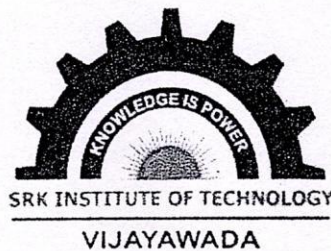
**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

<b>G.Rajesh</b>	<b>(19X41A0419)</b>
<b>K.Srinivasareddy</b>	<b>(19X41A0422)</b>
<b>K.Ramkumar</b>	<b>(19X41A0423)</b>

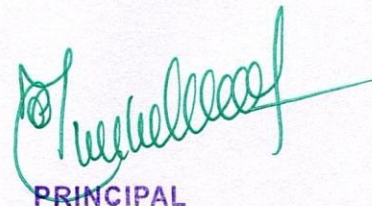


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**

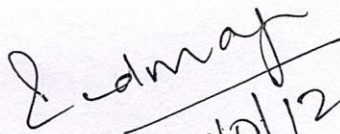


**PRINCIPAL**

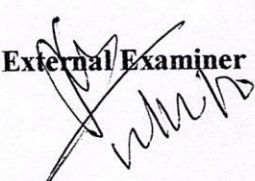
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "SMART INDUSTRIAL ENVIRONMENTAL MONITORING AND CONTROLLING SYSTEM" is a bonafied record of work carried out by **G.Rajesh (19X41A0419)**, **K.Srinivasareddy(19X41A0422)**, **K.Ramkumar (19X41A0423)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada**.

  
10/12/2020

**Dr. A.PADMAJA**  
Head of Department

  
External Examiner



PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108,

# A SMART BLIND STICK USING ARDUINO

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

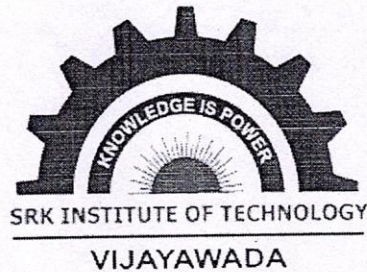
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**G.LAKSHMI SAI  
K.VISHNU PRASANNA  
K.LIKHITHA**

**(19X41A0420)  
(19X41A0421)  
(19X41A0424)**

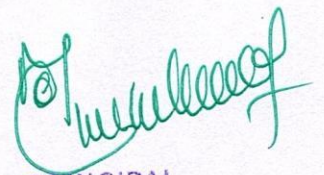


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**

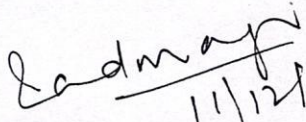


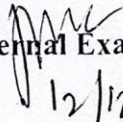
**PRINCIPAL**


**SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART BLIND STICK USING ARDUINO" is a bonafied record of work carried out by G.LAKSHMI SAI (19X41A0420), K.VISHNU PRASANNA (19X41A0421), K.LIKHITHA (19X41A0424) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

  
11/12/2020  
Dr. A. PADMAJA  
(Head of Department)

  
External Examiner  
12/12/20

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.



# SMART LIGHT AUTOMATION SYSTEM

An Engineering Exploration Project Report

Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

M KRISHNA VAMSI

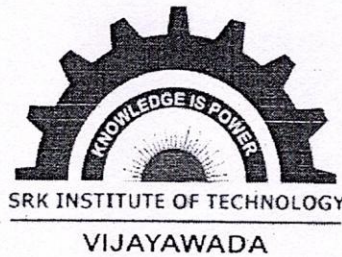
(19X41A0428)

M PAVAN SURYA KUMAR

(19X41A0431)

N SAI KUMAR

(19X41A0432)

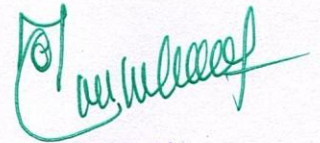


**S.R.K INSTITUTE OF TECHNOLOGY**

Enikepadu, Vijayawada-521108

Andhra Pradesh

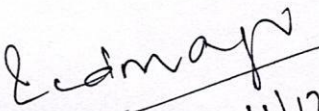
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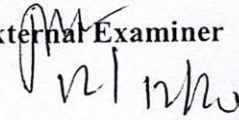
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.


## CERTIFICATE

This is to certify that the engineering exploration project report entitled "SMART LIGHT AUTOMATION SYSTEM" is a bonafied record of work carried out by M KRISHNA VAMSI (19X41A0428), M PAVAN SURYA KUMAR (19X41A0431), N SAI KUMAR(19X41A0432) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
Dr. A. PADMAJA 11/12/2020  
Head of Department

External Examiner



  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

# **A SMART STREET LIGHT SYSTEM USING ARDUINO**

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**K BABY SAI LATHA  
L GOWTHAMI  
M DEVI SWARNANJALI**

**19X41A0425  
19X41A0426  
19X41A0427**

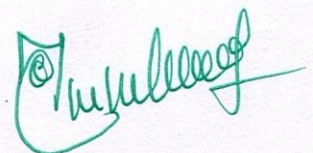


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

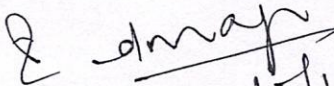
**December 2020**

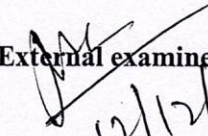


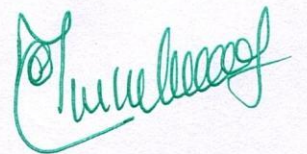
**PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART STREET LIGHT SYSTEM USING ARDUINO" is a bonafied record of work carried out by **K.BABY SAI LATHA(19X41A0425),L.GOWTHAMI(19X41A0426), M.DEVI SWARNANJALI (19X41A0427)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

  
10/12/2020  
**Dr. A.PADMAJA**  
(Head of Department)

  
External examiner  
12/12/20



**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

# SMART CAR PARKING SYSTEM USING ARDUINO

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

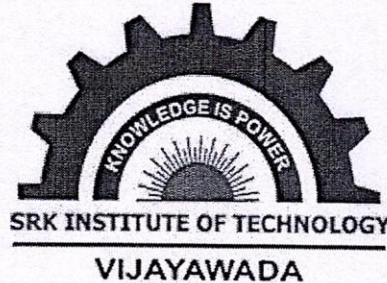
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

MD.KHAIRUNNISA  
M.NAGASONY  
N.MUKUNDA PRIYA

(19X41A0429)  
(19X41A0430)  
(19X41A0433)

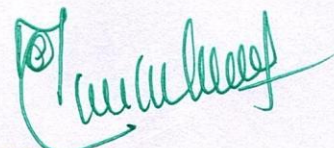


**S.R.K INSTITUTE OF TECHNOLOGY**

Enikepadu, Vijayawada-521108

Andhra Pradesh

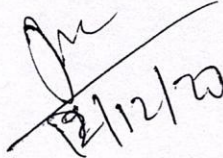
December 2020

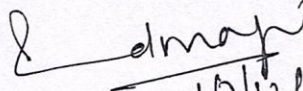


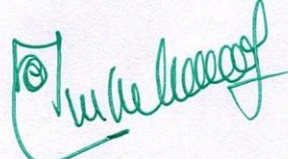
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108,**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "SMART CAR PARKING SYSTEM USING ARDUINO" is a bonafied record of work carried out by MD.KHAIRUNNISA (19X41A0429), M.NAGASONY (19X41A0429), N.MUKUNDA PRIYA (19X41A0433) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
12/12/20  
EXTERNAL

  
10/12/2020  
Dr. A. PADMAJA  
(Head of Department)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108

# SMART DOOR WORKING SYSTEM

An Engineering Exploration Project Report

Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**Jeswitha Naralasetty**

(19X41A0434)

**Pavani Polavarapu**

(19X41A0438)

**Swathi Singamsetty**

(19X41A0446)

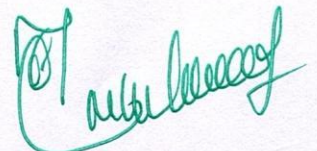


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**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**



**PRINCIPAL**

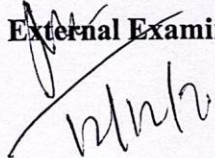
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

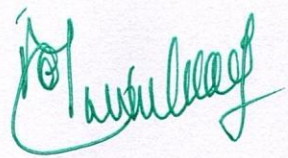
## CERTIFICATE

This is to certify that the engineering exploration project report entitled "SMART DOOR WORKING" is a bonafied record of work carried out by **Jeswitha Naralasetty (19X41A0434), Pavani Polavarapu (19X41A0438), Swathi Singamsetty (19X41A0446)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

  
Dr. A.PADMAJA

Head of Department

  
External Examiner

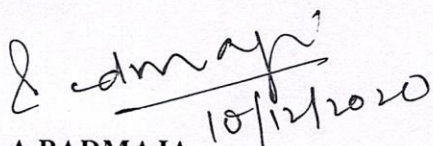
  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.



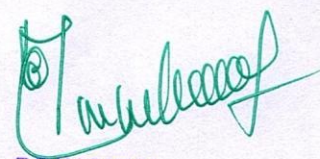


## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART INDUSTRIAL ENVIRONMENTAL MONITORING AND CONTROLLING SYSTEM" is a bonafied record of work carried out by S.SREENIVASAKUMAR (19X41A0442), S.KARTHIK(19X41A0443), S.JAI PAVAN KUMAR(19X41A0444) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of Jawaharlal Nehru Technological University, Kakinada

  
Dr. A.PADMAJA  
Head of Department

  
External Examiner

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

# **A SMART TEMPERATURE MONITORING SYSTEM**

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

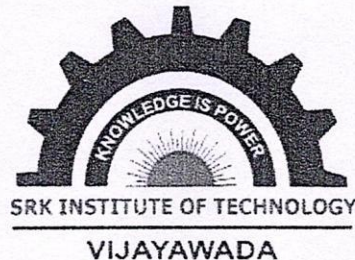
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**Nethi maharshi  
Palaparthi ganesh  
Para venkateswarlu**

**19X41A0435  
19X41A0436  
19X41A0437**

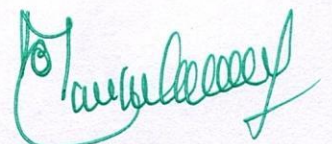


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**Andhra Pradesh**

**November 2020**

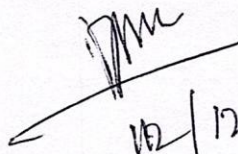


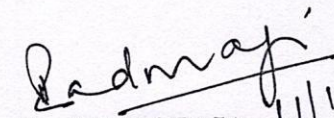
**PRINCIPAL**

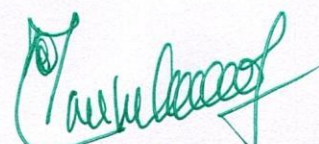
**SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108,**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART TEMPERATURE MONITORING SYSTEM" is a bonafied record of work carried out by Nethi Maharshi (19X41A0435), Palaparthi Ganesh (1941A0436), Para venkateswarlu (19X41A0437) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
12/12/20  
Examiner

  
Dr. A.PADMAJA 11/12/2020  
(Head of Department)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

# A SMART HOME SECURITY SYSTEM

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**P.HARI SAI**

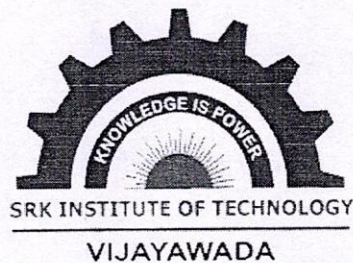
**(19X41A0439)**

**P.GANESH**

**(19X41A0440)**

**P.SRI LAKSHMINADH**

**(19X41A0441)**



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**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**

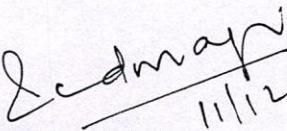


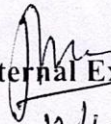
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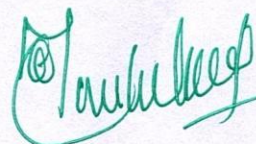
**SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART HOME SECURITY SYSTEM" is a bonafied record of work carried out by **P.HARI SAI (19X41A0439)**, **P.GANESH (19X41A0440)**, **P.SRI LAKSHMINADH (19X41A0441)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada**.

  
11/11/2020  
**Dr. A. PADMAJA**  
Head of Department

  
External Examiner  
12/12/20

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

# **STREET LIGHT USING ARDUINO UNO**

An Engineering Exploration Project Report

Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

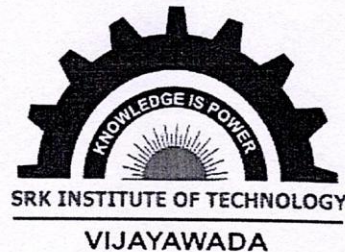
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**S.BHARGAVI  
T.RENUKA  
U.VINEELA SRI  
Y. USHASWINI**

**19X41A0447  
19X41A0449  
19X41A0450  
19X41A0453**




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**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**



**PRINCIPAL**

**SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "STREET LIGHT USING ARDUINO UNO" is a bonafied record of work carried out by S.BHARGAVI(19X41A0447),T.RENUKA(19X41A0449),U.VINEELA(19X41A0450), Y.USHASWINI(19X41A0453) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of Jawaharlal Nehru Technological University, Kakinada.

Ex

*Am*  
12/12/20  
External

*A. Padmaja*  
10/12/2020  
Dr. A.PADMAJA  
(Head of Department)

*[Signature]*

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108

# DC MOTOR CONTROLLING USING ARDUINO

An Engineering Exploration Project Report  
Submitted to

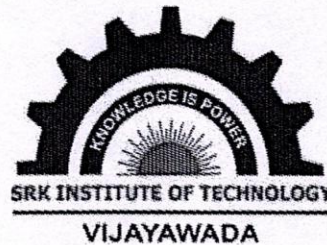
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,  
KAKINADA**

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

**BACHELOR OF TECHNOLOGY In  
ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

ADDANKI MURALI MOHAN	(19X41A0401)
ADDEPALLI DOONDI BALAJI	(19X41A0402)
ATHOTA SUNHITH VARDHAN	(19X41A0405)



**S.R.K INSTITUTE OF TECHNOLOGY**

Enikepadu, Vijayawada-521108

Andhra Pradesh

December 2020



PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.



## CERTIFICATE

This is to certify that the engineering exploration project report entitled "DC MOTOR CONTROLLING USING ARDUINO" is a bonafied record of work carried out by ADDANKI MURALI MOHAN (19X41A0401), ADDEPALLI DOONDI BALAJI (19X41A0402), ATHOTA SUNHITH VARDHAN (19X41A0405) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of Jawaharlal Nehru Technological University, Kakinada.

*A. Padmaja*  
10/12/2020

Dr. A. PADMAJA

Head of Department

External Examiner

*[Signature]*  
12/12/20

*[Signature]*

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108,

# A SMART CAR PARKING SYSTEM USING ARDUINO

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

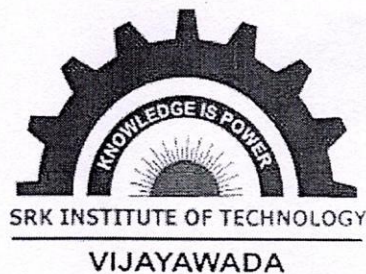
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**A.BHAVANA  
P.ARUNA  
B.ABHINAYA**

**(19X41A0403)  
(19X41A0404)  
(19X41A0407)**

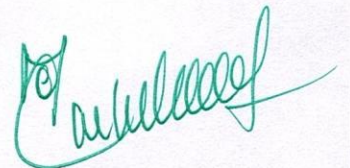


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**

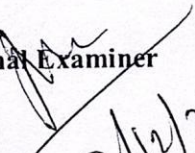


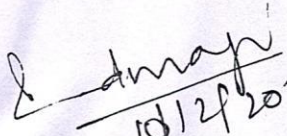
**PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**


## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART CAR PARKING SYSTEM USING ARDUINO" is a bonafied record of work carried out by A.BHAVANA (19X41A0403), P.ARUNA (19X41A0404), B.ABHINAYA (19X41A0407) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

External Examiner

  
12/12/20

  
10/12/2020  
Dr. A.PADMAJA  
(Head of Department)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

# DC MOTOR CONTROLLING USING ARDUINO

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,  
KAKINADA**

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

**BACHELOR OF TECHNOLOGY In  
ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**SIMHADRI VENKATA VIGNESH**

**(19X41A0445)**

**SYED AFZAL**

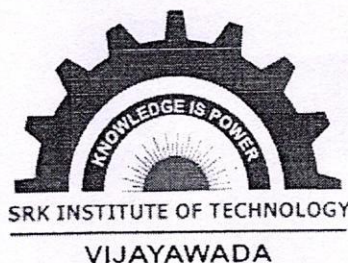
**(19X41A0448)**

**VATTIPROLU KIRAN KUMAR**

**(19X41A0451)**

**VENNA SAI KUMAR**

**(19X41A0452)**



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**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**



**PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "DC MOTOR CONTROLLING USING ARDUINO" is a bonafied record of work carried out by SIMHADRI VENKATA VIGNESH (19X41A0445), SYED AFZAL (19X41A0448), VATTIPORLU KIRAN KUMAR (19X41A0451), VENNA SAI KUMAR (19X41A0452) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

*A. Padmaja*  
11/12/2020

Dr. A. PADMAJA  
Head of Department

*[Signature]*  
External Examiner

*[Signature]*

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108

# A SMART STREET LIGHT USING ARDUINO

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

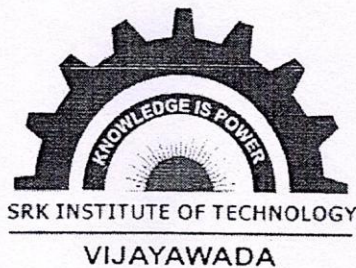
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

A. ANU SAI SURESH  
A. ASHOK  
A.V. RAMANJI REDDY

(19X41A0454)  
(19X41A0455)  
(19X41A0456)



**S.R.K INSTITUTE OF TECHNOLOGY**

Enikepadu, Vijayawada-521108

Andhra Pradesh

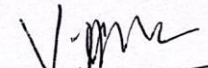
November 2020

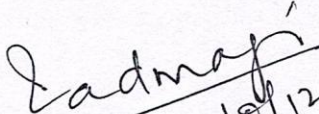
PRINCIPAL

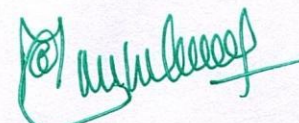
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART STREET LIGHT USING ARDUINO " is a bonafied record of work carried out by A. ANU SAI SURESH (19X41A0454), A.ASHOK (19X41A0455), A.V.RAMANJI REDDY (19X41A0456) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
EXTERNAL EXAMINER .  
11/12/20

  
Dr. A.PADMAJA  
(Head of Department)  
18/12/2020

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

# A SMART CAR PARKING BY USING AURDINO

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

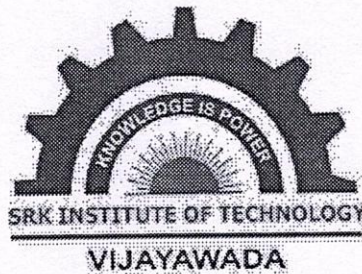
In partial fulfillment of the requirement for the award of the degree of

**BACHELOR OF TECHNOLOGY In ELECTRONICS AND  
COMMUNICATION ENGINEERING**

Submitted by

**N.VENUGOPAL  
P.YOGESWAR  
P.VENKATA SAI VINITH**

**(19X41A0486)  
(19X41A0489)  
(19X41A0490)**

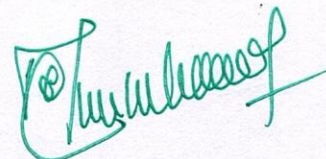


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**

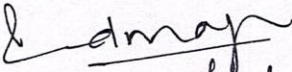


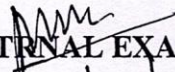
**PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108**




## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART CAR PARKING BY USING AURDINO" is a bonafied record of work carried out by N.VENUGOAL (19X41A0486), P.YOGESWAR (19X41A0489), P.VENKATA SAI VINTH(19X41A0490) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
Dr. A.PADMAJA 15/12/2020  
(Head of Department)

  
EXTERNAL EXAMINER  
11/12/20



# DC MOTOR USING ARDUINO UNO

An Engineering Exploration Project Report  
Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA

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

**BACHELOR OF TECHNOLOGY**

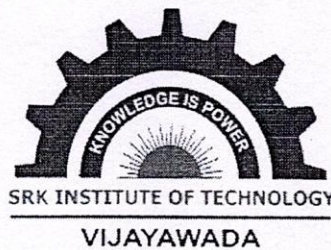
In

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

B. DEEKSHITHA  
B. NIHARIKA  
B. VANI

(19X41A0457)  
(19X41A0459)  
(19X41A0460)

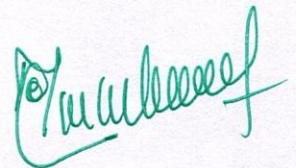


S.R.K INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada-521108

Andhra Pradesh

December 2020

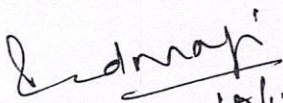


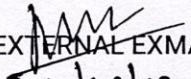
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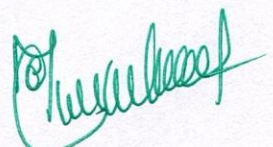
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "DC MOTOR" is a bona field cord of work carried out by B. DEEKSHITHA (19X41A0457), B. NIHARIKA (19X41A0459), B.VANI(19X41A0460) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
10/12/2020  
Dr. A.PADMAJA  
(Head of Department)

  
EXTERNAL EXMANAR  
11/12/20

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

# A SMART BLIND STICK USING ARDUINO

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

CH .SAI VANI

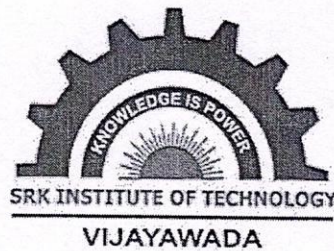
( 19X41A0461)

D.SWATHI

(19X41A0463)

J.RESHMA SAI SRI

(19X41A0472)

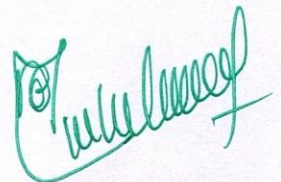


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

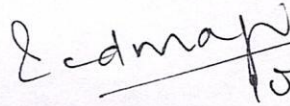
**December 2020**



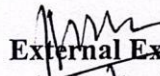
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled A SMART BLIND STICK USING ARDUINO is a bonafied record of work carried out by **CH SAI VANI 19X41A0461, D SWATHI 19X41A0463, J RESHMA SAI SRI 19X41A0472** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

  
10/12/2020

**Dr. A.PADMAJA**  
Head of Department

  
External Examiner  
11/12/20



**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

**DC MOTOR**  
**AN ENGINEERING EXPLORATION PROJECT REPORT**  
Submitted to  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,**  
**KAKINADA**

In partial fulfillment of the requirement for the award of the degree of  
**BACHELOR OF TECHNOLOGY**  
**In**  
**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**G SAI VIVEK REDDY**

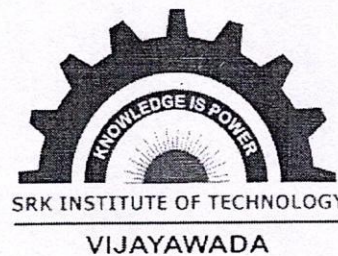
**19X41A0466**

**G VARUN TEJA**

**19X41A0467**

**G NAVEEN KUMAR**

**19X41A0468**

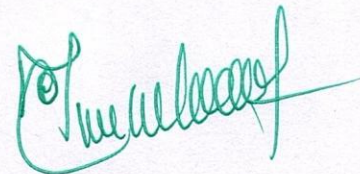


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**



**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "REPORT TITLE" is a bonafied record of work carried out by G SAI VIVEK REDDY (19X41A0466), G VARUN TEJ (19X41A0467), G NAVEEN KUMAR (19X41A0468) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

*A. Padmaja*  
10/11/2020

Dr. A.PADMAJA  
Head of Department

*[Signature]*  
External Examiner  
11/11/20

*[Signature]*

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

**A SMART LIGHT AUTOMATIC SYSTEM  
AN ENGINEERING EXPLORATION PROJECT REPORT**

Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,  
KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**MOLAGANTI YASWANTHRAJ**

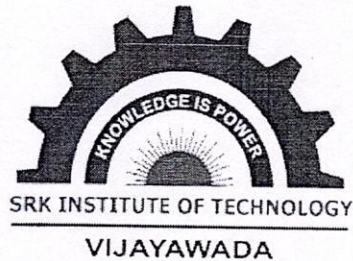
**19X41A0469**

**INDRAGANTI MANOHAR**

**19X41A0470**

**YALAKALA JANAKI RAM**

**19X41A0471**



**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**



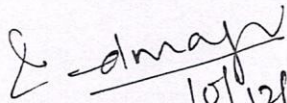
**PRINCIPAL**

**SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

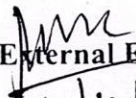


## CERTIFICATE

This is to certify that the engineering exploration project report entitled "REPORT TITLE" is a bonafied record of work carried out by **MOLAGANTI YASWANTHRAJ (19X41A0469), INDRAGANTI MANOHAR (19X41A0470), YALAKALA JANAKI RAM (19X41A0471)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

  
10/12/2020

**Dr. A.PADMAJA**  
Head of Department

  
External Examiner  
11/12/20



**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

# **A SMART TEMPERATURE OF MONITORING SYSTEM**

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

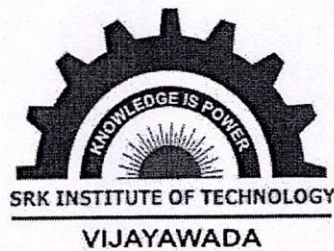
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**K. GIRI SAI PRAKASH  
K. VENKATA SAI KRISHNA  
K. AJAY KUMAR**

**(19X41A0474)  
(19X41A0475)  
(19X41A0476)**



**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

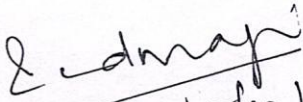
**December 2020**



**PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART TEMPERATURE MONITORING SYSTEM" is a bonafied record of work carried out by K.GIRI SAI PRAKASH (19X41A0474), K.V.SAI KRISHNA(19X41A0475), K.AJAY KUMAR (19X41A0476) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of Jawaharlal Nehru Technological University, Kakinada.

  
Dr. A.PADMAJA  
(Head of Department) 10/12/2020

  
EXTERNAL EXAMINER  
11/12/20



PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

# **A SMART CAR PARKING SYSTEM USING ARDUINO**

An Engineering Exploration Project Report  
Submitted to

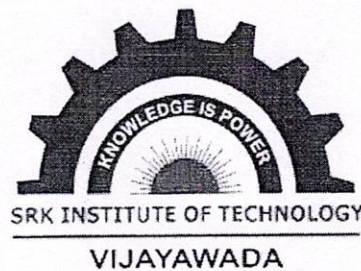
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,  
KAKINADA**

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

**BACHELOR OF TECHNOLOGY  
In  
ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

Yerukonda.Sravaninagasai	(19X41A0473)
Kolla.Himahasanthi	(19X41A0477)
Nagadasi.Jyothsnamounika	(19X41A0483)



**S.R.K INSTITUTE OF TECHNOLOGY**

Enikepadu, Vijayawada-521108

Andhra Pradesh

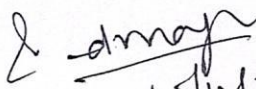
December 2020

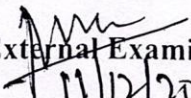


**PRINCIPAL**  
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART CAR PARKING SYSTEM USING ARDUINO " is a bonafied record of work carried out by Yerukonda.Sravaninagasai (19X41A0473), Kolla.Himahasanthi(19X41A0477), Nagadasi.Jyosthnamounika(19X41A0483), under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and CommuicationEnginnering of Jawarharlal Nehru Technological University, Kakinada.

  
15/12/2020  
**Dr. A.PADMAJA**  
Head of Department

  
External Examiner  
11/12/20

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 102

# **A SMART HOME SECURITY SYSTEM USING ARDUINO UNO**

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**MOHAMMAD AFROZ**

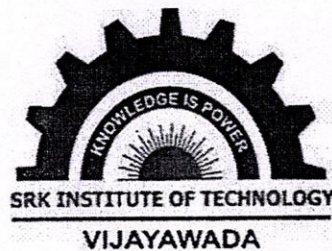
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**M.DENISH REDDY**

**19X41A0479**

**TEJA ARUN KUMAR**

**19X41A0478**

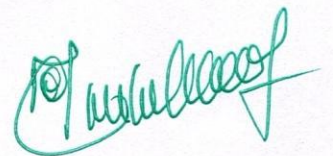


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

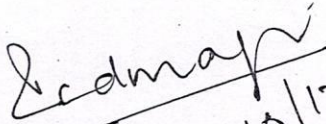
**December 2020**




**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART HOME SECURITY SYSTEM USING ARDUINO UNO" is a bonafied record of work carried out by MOHAMMAD AFROZ (19X41A0480), M.DENISH REDDY (19X41A0479), TEJA ARUN KUMAR (19X41A0478) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
Dr. A.PADMAJA 10/12/2020  
(Head of Department)

  
EXTERNAL EXAMINER  
11/12/20

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 102

# A SMART BLIND STICK USING ARDUINO

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

MD.SADHIK HUSSAIN

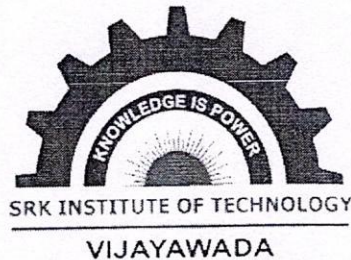
19X41A0481

M.NAGA TEJA

19X41A0482

N.KARTHIK

19X41A0484



**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**November 2020**

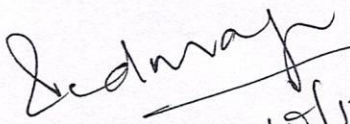


**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

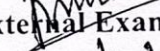


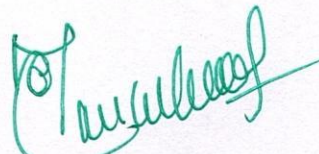
## CERTIFICATE

This is to certify that the engineering exploration project report entitled "REPORT TITLE" is a bonafied record of work carried out by STUDENT NAME (ROLL NUM), STUDENT NAME (ROLL NUM), STUDENT NAME (ROLL NUM) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
Dr. A.PADMAJA 10/12/2020

Head of Department

  
External Examiner  
11/12/20



PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

**A SMART LIGHT AUTOMATION  
SYSTEM**

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

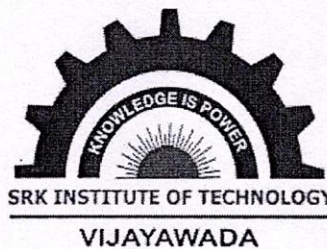
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**N.MOUNIKA  
N.MOUNIKA CHOWDARY  
P.V.SAI SUDEEPTHI**

**(19X41A0485)  
(19X41A0487)  
(19X41A0488)**

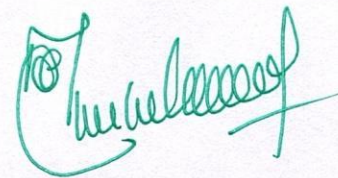


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

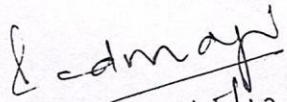
**December 2020**

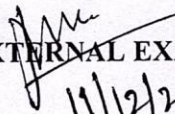



**PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART LIGHT AUTOMATION SYSTEM (USING ARDUINO UNO)" is a bonafied record of work carried out by N.MOUNIKA (19X41A0485), N.MOUNIKA CHOWDARY (19X41A0487), P.V.SAI SUDEEPTHI (19X41A0488) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
Dr. A.PADMAJA  
(Head of Department) 15/12/2020

  
EXTERNAL EXAMINER  
11/12/20

  
PRINCIPAL  
SRK Institute of Technolog  
ENIKEPADU, VIJAYAWADA-521 101

# **A SMART HOME SECURITY SYSTEM**

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

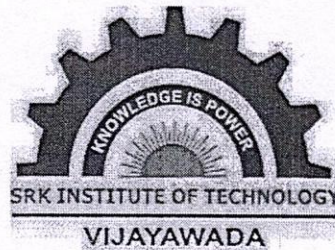
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**U.JAI SAMANIKA  
V.POOJITHA  
V.DHANUJA**

**(19X41A0499)  
(19X41A04A2)  
(19X41A04A3)**

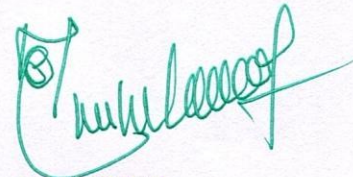


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

Andhra Pradesh

December 2020

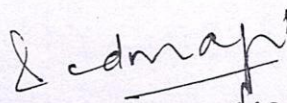


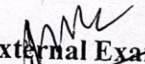
**PRINCIPAL**

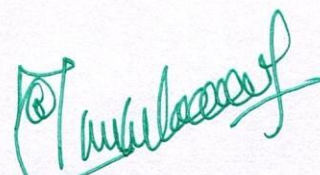
**SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled " A SMART HOME SECURITY SYSTEM " is a bonafied record of work carried out by U.JAI SAMANIKA (19X41A0499), V.POOJITHA (19X41A04A2),V.DHANUJA(19X41A04A3) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of Jawaharlal Nehru Technological University, Kakinada.

  
Dr. A.PADMAJA 10/12/2020  
Head of Department

  
External Examiner  
11/12/20

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

# A SMART DOOR OPENING SYSTEM USING ARDUINO

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

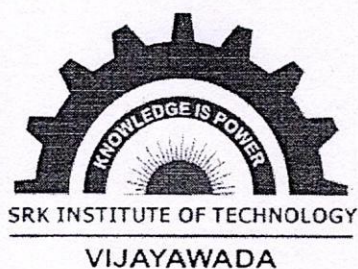
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**B. MADHU SUDHAN REDDY  
G KARTHIKEYA**

**(19X41A0458)  
(19X41A0465)**



**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

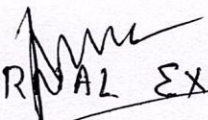
**November 2020**

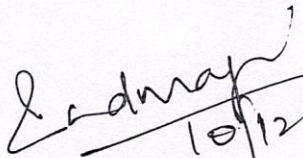


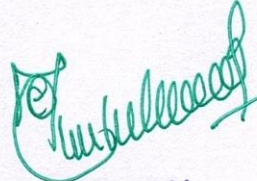
**PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "A SMART DOOR OPENING SYSTEM USING ARDUINO " is a bonafied record of work carried out by B. MADHU SUDHAN REDDY(19X41A0458), G.KARTHIKEYA(19X41A0465) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of Jawaharlal Nehru Technological University, Kakinada.

  
EXTERNAL EXAMINER  
11/12/20

  
10/12/2020  
Dr. A.PADMAJA  
(Head of Department)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108

# Smart door opening

An Engineering Exploration Project Report

Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

S.NAGANJANEYULU

(19X41A0496)

V.N.V.S.RAKESH

(19X41A04A0)

V.CHAITANYA KUMAR

(19X41A04A1)

Y.PRASANTH REDDY

(19X41A04A4)



SRK INSTITUTE OF TECHNOLOGY

VIJAYAWADA

S.R.K INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada-521108

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

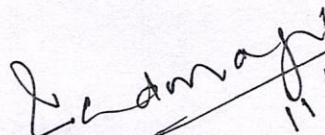


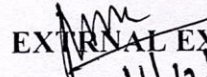
Andhra Pradesh

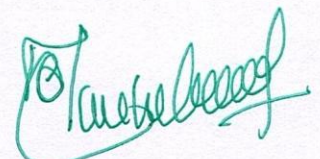
December 2020

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "**Smart door opening**" is a bonafied record of work carried out by **S.NAGANJANEYULU (19X41A0496)**, **V.N.V.S.RAKESH(19X41A04A0)**,**V.CHAITANYA KUMAR (19X41A04A1)**,**Y.PRASANTH REDDY (19X41A04A4)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

  
11/12/2020  
**Dr. A.PADMAJA**  
(Head of Department)

  
EXTERNAL EXAMINER  
11/12/20

  
**PRINCIPAL**  
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

# A SMART TEMPERATURE MONITORING SYSTEM

An Engineering Exploration Project Report  
Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

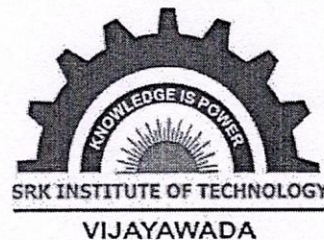
Submitted by

P.RAHITYA

(19X41A0493)

T.CHAITANYA SNIGDHA

(19X41A0497)



**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

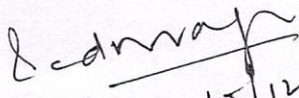
**December 2020**



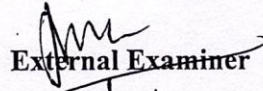
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

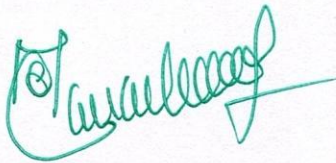
This is to certify that the engineering exploration project report entitled " A SMART TEMPERATURE MONOTORING SYSTEM " is a bonafied record of work carried out by P.RAHITYA (19X41A0493), T.CHAITANYA SNIGDHA (19X41A0497) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
Dr. A.PADMAJA  
Head of Department

15/12/2020

  
External Examiner

11/12/20



PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

# A SMART STREET LIGHTING SING AURDINO

An Engineering Exploration Project Report

Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

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

**BACHELOR OF TECHNOLOGY**

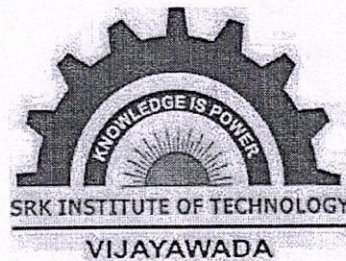
**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

P. SAI BABU  
P. B V DURGA PRASAD  
SK. MOULALI  
SK.UNNAS

(19X41A0491)  
(19X41A0492)  
(19X41A0494)  
(19X41A0495)

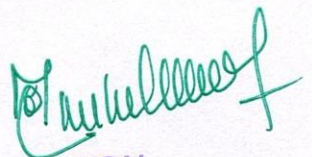


**S.R.K INSTITUTE OF TECHNOLOGY**

**Enikepadu, Vijayawada-521108**

**Andhra Pradesh**

**December 2020**

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the engineering exploration project report entitled "**A SMART STREET LIGHTING USING AURDINO**" is a bonafied record of work carried out by **P. SAI BABU (19X41A0491), P.B V DURGA PRASAD (19X41A0492), SKMOULALI (19X41A0494), SK.UNNAS (19X41A0495)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

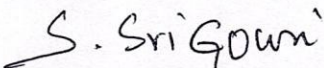
*A. Padmaja*  
15/12/2020  
Dr. A.PADMAJA  
(Head of Department)

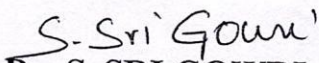
*[Signature]*  
EXTERNAL EXAMINER  
11/12/20

*[Signature]*  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 10

## CERTIFICATE

This is to certify that the project report entitled "A DESIGN OF SENSING DATA COLLECTION CIRCUITS FOR WIRELESS SENSOR NETWORKS UTILIZING WIFI TECHNOLOGY" is a bonafide record of work carried out by A.MEENA (16X41A0401), P.VENKATA GOPI(16X41A0442) and T.SATISH KUMAR(16X41A0454) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

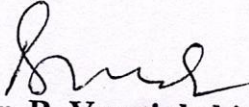
  
**Dr. S. SRI GOWRI**  
(PROJECT GUIDE)

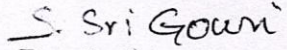
  
**Dr. S. SRI GOWRI**  
(HEAD OF THE DEPARTMENT)

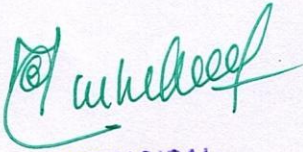
  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the project report entitled "BREAST CANCER DETECTION FROM HISTOPATHOLOGICAL IMAGES USING DEEP LEARNING" is a bonafide record of work carried out by A. ANKA BABU (16X41A0402), P. RAJA SREE (16X41A0441), V. VAMSI KRISHNA (16X41A0458), and P. PRAVEEN (16X41A0445) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering, Jawaharlal Nehru Technological University, Kakinada.

  
**Dr. B. Vanajakshi**  
(PROJECT GUIDE)

  
**Dr. S. Sri Gowri**  
(HEAD OF THE DEPARTMENT)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the project report entitled “**Location Tracking System for Vehicle Emergency**” is a bonafide record of work carried out by B. Sai Sri Lakshmi (16X41A0403), J. Harisree (16X41A0422), Ch. Dali Jyothsna (17X45A0402), and M. Srihari (16X41A0433) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.



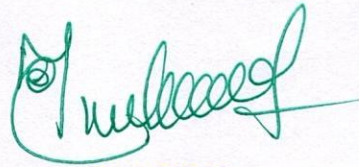
Mr. B. Ravi

(Project Guide)



Dr. S. Sri Gowri

(Head of the Department)



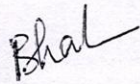
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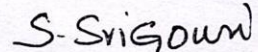
## CERTIFICATE

This is to certify that the project report entitled "PAPR REDUCTION FOR MIMO-OFDM SYSTEMS IN WIRELESS COMMUNICATIONS USING PTS WITH DWT-DCT SCHEME" is a bonafide record of work carried out by B. MOUNIKA(16X41A0405), Y. SUPRIYA(16X41A0459), K.SUJITHA UHA(16X41A0426), and CH.PRANATHI(16X41A0410) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.



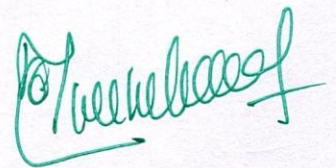
**Mr. P. Ratna Bhaskar**

(PROJECT GUIDE)



**Dr. S. Sri Gowri**

(HEAD OF THE DEPARTMENT)



PRINCIPAL

**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the project report entitled “**RFID BASED MINERAL WATER DISPENSER SYSTEM**” is a confide record of work carried out by **B. KINNERA (16X41A0406)**, **U. SOWJANYA (16X41A0457)**, **M. SAI KRISHNA (16X41A0431)**, **D. THANUJA (16X41A0415)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in *Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.*

*V. Sri Lakshmi*

**Mrs. V. SRI LAKSHMI**

(PROJECT GUIDE)

*S. Sri Gowri*  
**Dr. S. SRI GOWRI**

(HEAD OF THE DEPARTMENT)

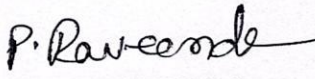
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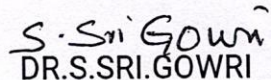
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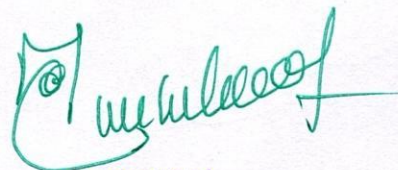
**SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the report entitled "HOME AUTOMATION BASED ON VOICE RECOGNITION" is a bonafide record of work carried out by (16X41A0411 CH.CHANDRIKA), T. YASASWINI (16X41A0455), P. JAGADEESH (16X41A0437), K. POORNA CHANDU (16X41A0428) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
MR.P.RAVEENDRA  
(PROJECT GUIDE)

  
DR.S.SRI.GOWRI  
(HEAD OF THE DEPARTMENT)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the Seminar entitled “AN OPTIMIZED IMPLEMENTATION OF IEEE-754 FLOATING POINT MULTIPLIER FOR DSP APPLICATIONS” is a bonafide record of work carried out by **D.Sai Sudheshna (16X41A0412), K.Siva Reddy (16X41A0425), S.Lavanya (16X41A0449)**, under my guidance and supervision in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in *Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.*

*PKR*  
**Mr. P. Koteswara Rao**

(PROJECT GUIDE)

*S. Sri Gowri*  
**Dr. S. Sri Gowri**

(HEAD OF THE DEPARTMENT)

ii

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PRINCIPAL

SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

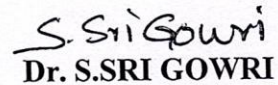
## CERTIFICATE

This is to certify that the project report entitled “**DEVELOPMENT OF FINGERPRINT AND VOICE BASED LOCK SYSTEM**” is a bonafied record of work carried out by **D.KAVYA PRAGNA (16X41A0413), G.VAMSI KRISHNA (16X41A0421), SK.FARHA TASNEEM (16X41A0451), D.PURNIMA (17X45A0405)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**



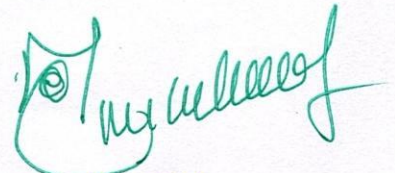
**Mr. D.RAVI TEJ**

(PROJECT GUIDE)



**Dr. S.SRI GOWRI**

(HEAD OF THE DEPARTMENT)

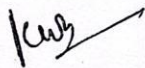


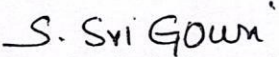
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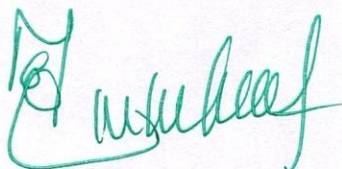
**SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the Seminar entitled “**Model Based Design of Software Defined Radio for improving SNR by reducing the BER**” is a bonafide record of work carried out by **E.D.S.Sandhya Rani (16X41A0416), G. Devika (16X41A0419), U.Likhitha(16X41A0456),D.RameshKumar(16X41A0448)**, under the guidance and supervision in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING Of Jawaharlal Nehru Technological University, Kakinada** is a bonafide record of work carried out under my guidance and supervision at **S.R.K INSTITUTE OF TECHNOLOGY**.

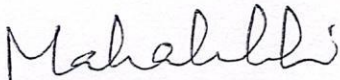
  
**Mr. K. Venkateswara Rao**  
(PROJECT GUIDE)

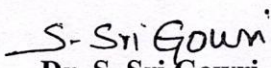
  
**Dr. S. Sri Gowri**  
(HEAD OF THE DEPARTMENT)

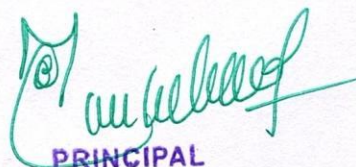
  
**PRINCIPAL**  
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the Project report entitled “**Conformal Microstrip Patch Antenna for WLAN Applications**” is a bonafide record of work carried out by **K.Praveen Kumar (16X41A0429), CH. Bhargavi (16X41A0408), SK.Sharukh (17X45A0401), CH.Keziya (16X41A0407)** under my guidance and supervision in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in *Electronics and Communication Engineering* of *Jawaharlal Nehru Technological University, Kakinada*.

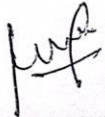
  
**Mrs. N.V.K. Mahalakshmi**  
PROJECT GUIDE

  
**Dr. S. Sri Gowri**  
HEAD OF THE DEPARTMENT

  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the project report entitled “**GSM BASED SMART ENERGY METER WITH ARDUINO UNO**” is a bonafied record of work carried out by **M.ANKARAO (16X41A0430), R.RAJESWARI (17X45A0406), N.SAI SRI LAKSHMI (17X45A0407), K.NAGA DURGA PRASANNA (16X41A0427)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**



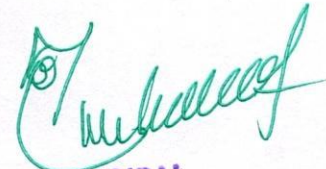
**Ms. N.MAYURI**

**(PROJECT GUIDE)**



**Dr. S.SRI GOWRI**

**(HEAD OF THE DEPARTMENT)**

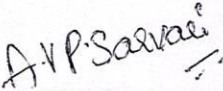


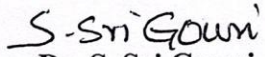
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**




## CERTIFICATE

This is to certify that the Seminar entitled “**CONVOLUTIONAL RECURRENT NEURAL NETWORKS FOR DYNAMIC MR IMAGE RECONSTRUCTION**” is a bonafide record of work carried out P. Bhargava Lakshmi (16X41A0438), K. Navya Sri (17X45A0404), K. Shanmukha (16X41A0424), G. Sri Harini (16X41A0418) under my guidance and supervision in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in *Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.*

  
Mrs. A.V.P Sarvari  
(PROJECTGUIDE)

  
Dr. S. Sri Gowri  
(HEAD OF THE DEPARTMENT)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE


This is to certify that the project report entitled "SMART HELMET FOR SAFETY AND ACCIDENT CONTROLLING AND DETECTION" is a bonafied record of work carried out by P.RASHEEDA BEGAM (16X41A0440), Y.TULASI (16X41A0460), T.AKHIL (16X41A0453) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

*V. Sri Lakshmi*  
Mrs. V. SRI LAKSHMI

(PROJECT GUIDE)

*S. Sri Gowri*  
Dr. S.SRI GOWRI

(HEAD OF THE DEPARTMENT)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the project report entitled "IOT BASED VEHICLE PARKING MANAGER" is a bonafide record of work carried out by P.AKHILASRI(16X41A0443), S.CHUDAMANI(16X41A0452), G.THANMAI (16X41A0417) and P.KHAMRUN KHAN(16X41A0439) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

*CH*

**Mr. CH. SIVA RAJESH**  
(PROJECT GUIDE)

*S-Sri Gowri*  
**Dr. S. SRI GOWRI**

(HEAD OF THE DEPARTMENT)

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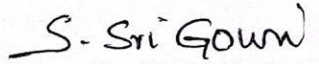
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

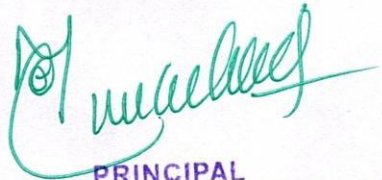
This is to certify that the project report entitled "CONTENT BASED IMAGE RETRIEVAL USING DEEP LEARNING PROCESS" is a bonafide record of work carried out by P.SURYA TEJASWI(16X41A0444), SK.ASHA(16X41A0450), R.LAKSHMI DURGA(17X45A0403), and O.ROJA MERCY(16X41A0436) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

  
**Mr. V. SEKHARA BABU**

(PROJECT GUIDE)

  
**Dr. S. Sri Gowri**

(HEAD OF THE DEPARTMENT)

  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE


This is to certify that the report entitled “**BIONIC ARM USING ARDUINO TECHNOLOGY**” is a bonafide record of work carried out by **M. SAI MALLESWAR (16X41A0432)** under my guidance and supervision in partial fulfilment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.**

*V. Sri Lakshmi*  
Mrs. V. SRI LAKSHMI

(PROJECT GUIDE)

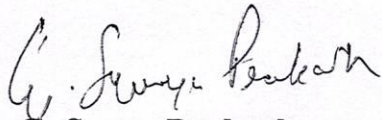
*S. Sri Gowri*  
Dr. S. SRI GOWRI

(HEAD OF THE DEPARTMENT)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the project report entitled "COMPARING VARIOUS CHANNEL INTERPOLATION TECHNIQUES USING OFDM SYSTEMS" is a bonafide record of work carried out by B. BHAVYA(16X41A0464), CH. PRAVALLIKA(17X45A0422), V. SRAVYA(17X45A0424), T SREE VENKATA SAI(16X41A04A1) AND B. SIVA NAGA BABU(16X41A0466) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in *Electronics and Communication Engineering* of *Jawaharlal Nehru Technological University, Kakinada*.

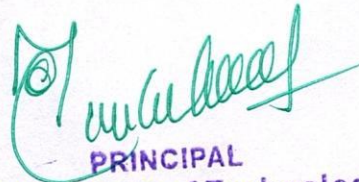


**Mr. G. Surya Prakash**

**(PROJECT GUIDE)**



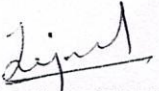
**(HEAD OF THE DEPARTMENT)**

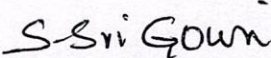


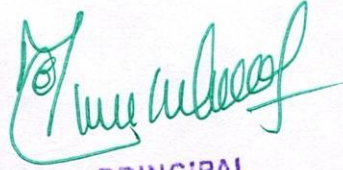
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the project report entitled "ADVANCED WOMEN PROTECTION SYSTEM USING INTERNET OF THINGS" is a bonafied record of work carried out by CH.ANIL KUMAR (16X41A0468), Y.MOHAN (16X41A04B2), R.SAI RISHITHA (15X41A0468), T.PETER PAUL (16X41A04A0) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of Jawaharlal Nehru Technological University, Kakinada.

  
MR.B.S.S.TEJESH  
(Project Guide)

  
Dr. S. SRI GOWRI  
(Head of Department)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the project report entitled "AUTOMATED TOLL COLLECTION SYSTEM USING NFC TECHNOLOGY" is a bonafied record of work carried out by CH.VENKATA NANDINI (16X41A0469), V.PRANEETH SAI (16X41A04A7), B.PRASAD (16X41A0463), K.ANITHA (16X41A0478) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of Jawaharlal Nehru Technological University, Kakinada.

*S. Neeraja*

Ms. S.NEERAJA

(PROJECT GUIDE)

*S. Sri Gowri*  
Dr. S.SRI GOWRI

(HEAD OF THE DEPARTMENT)

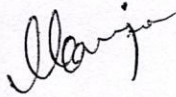
*M. Srinivas*

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.



## CERTIFICATE

This is to certify that the project report entitled “**BIOMETRIC VOTING SYSTEM USING ARDUINO**” is a bonafide record of work carried out by **D. SAI DEEPIKA (16X41A0472), U. SYAM SUNDAR (16X41A04A4), R. JEEVANA JYOTHI (16X41A0489), A. SAI KRISHNA (16X41A04B4)** under my guidance and supervision in partial fulfillment of the requirements for the award of the degree of **Jawaharlal Nehru University, Kakinada** during the academic year 2016-2020.



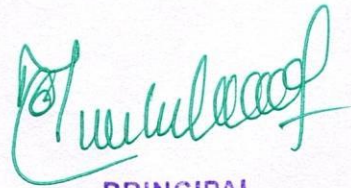
**Mrs T. MANOGNA**

**(PROJECT GUIDE)**



**Dr. S. SRI GOWRI**

**(HEAD OF THE DEPARTMENT)**



**PRINCIPAL**

**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

**Enikepadu, vijayawada- 521108  
Andhra pradesh April 2020**

## **CERTIFICATE**

This is to certify that the Project entitled “**TIME CODING OTDM MIMO SYSTEM BASED ON SINGULAR VALUE DECOMPOSITION FOR 5G APPLICATIONS**” is a bonafide record of work carried out by G.B.SRI GOWRI (16X41A0473), T.NIHARIKA (16X41A04A3), SYED.SIMRIN FATHIMA (16X41A0498), SK.JAKEE R HUSSAIN(16X41A0495) partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in **Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada** during academic year 2016-2020, is bonafied record of work carried out guidance and supervision.

*S. Sri Gowri*  
**Dr. S. SRI GOWRI**

**(PROJECT GUIDE)**


*S. Sri Gowri*  
**Dr. S. SRI GOWRI**

**(HEAD OF THE DEPARTMENT)**

*[Handwritten Signature]*  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

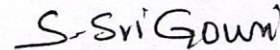
## CERTIFICATE

This is to certify that the project report entitled “**FOREST FIRE ALERTING SYSTEM WITH GPS CO-ORDINATES USING IoT**” is a bonafied record of work carried out by **K. RAJESWARI (16X41A0477), T. SINDHU (16X41A04A2), D. MANASA (16X41A0470), P. NAGA SAI RAM (16X41A0484)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** , **Jawaharlal Nehru Technological University, Kakinada.**



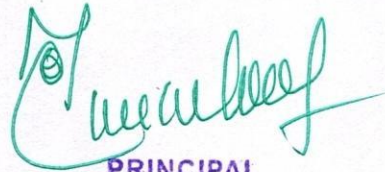
**Dr. B. VANAJAKSHI**

(PROJECT GUIDE)



**Dr. S. SRI GOWRI**

(HEAD OF THE DEPARTMENT)




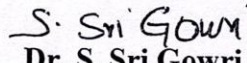
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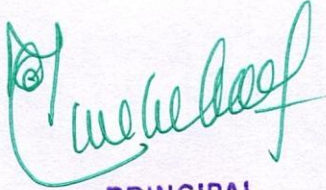
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the project report entitled “VEHICLE THEFT DETECTION AND CONTROLLING SYSTEM” is a bonafied record of work carried out by **M. Sai Nikhil (16X41A0482), T.Divya (16X41A0499), P. Vasuki (16X41A0487), P. Likhitha Chowdary (16X41A0486)** under my guidance and supervision in partial fulfilment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

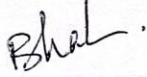
  
**Mr. B. Ravi**  
(Project Guide)

  
**Dr. S. Sri Gowri**  
(Head of the department)

  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 103.**

## CERTIFICATE

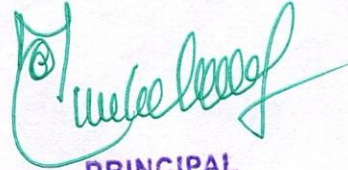
This is to certify that the project report entitled "A CHANNEL ESTIMATION SCHEME FOR MIMO OFDM SYSTEMS" is a bonafide record of work carried out by P.S.L ANEESHA (16X41A0483), S.PREETHI (16X41A0493), S.SRAVANABHARGAVI (16X41A0492) and V.SIVA RAM(16X41A04A6) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in *Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.*



**Mr. P. Ratna Bhaskar**  
(PROJECT GUIDE)



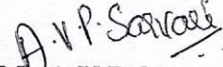
**Dr. S. Sri Gowri**  
(HEAD OF THE DEPARTMENT)

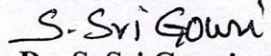


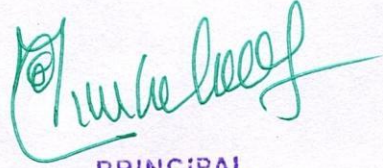
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

## CERTIFICATE

This is to certify that the project report entitled “**PULMONARY ARTERY AND VEINS CLASSIFICATION IN CT IMAGE USING DEEP LEARNING**” is a bonafide record of work carried out by S. Sai Geeth (16X41A0491), R. Satya Sree (16X41A0490), A. G. Prudhvi (16X41A0462), U. Gopi Kishore (16X41A04A5) under my guidance and supervision in partial fulfilment of the requirements for award of the degree of Bachelor of Technology in *Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.*

  
Ms.A.V.P Sarvari  
(PROJECT GUIDE)

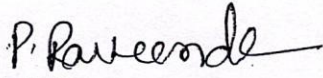
  
Dr. S. Sri Gowri  
(HEAD OF THE DEPARTMENT)

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

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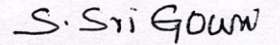
## CERTIFICATE

This is to certify that the project report entitled "CRACK DETECTION IN RAILWAY TRACK" a bonafide record of work carried out by V. DEEPIKA (16X41A04A8), K.BINDU HARSHITI (16X41A0476), CH. NHAVYA (16X41A0467), K.LITHISH KUMAR (16X45A0475), under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology **Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinad**



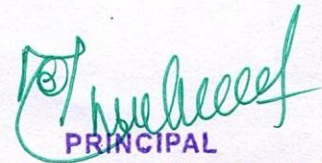
Mr.P.Raveendra

(PROJECT GUIDE)



Dr. S.SRI GOWRI

(HEAD OF THE DEPARTMENT)



PRINCIPAL

SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the project report entitled **INTELLIGENT SYSTEM FOR GAS LEAKAGE MONITORING AND CONTROLLING USING IoT** ” is a bonafide record of work carried out by **V.NAGA DEVI ANUSHA(16X41A04A9), B.SANDHYA RANI(16X41A0465), R.SAI PRAKASH(16X41A0488), D.MADHU GOVIND(16X41A0471)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

*PCC*

**Mr. P. Koteswara Rao**

PROJECT GUIDE

*S Sri Gowri*  
**Dr. S. Sri Gowri**

HEAD OF THE DEPARTMENT

*[Handwritten Signature]*

**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**



## CERTIFICATE

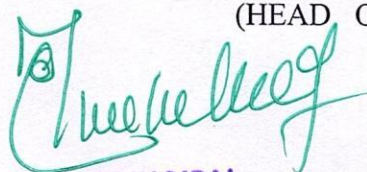
This is to certify that the project entitled "**Modified Advanced Encryption standard for Resource Constraint Environments**" is a bonafide record of work carried out by **S.PRIYANKA (16X41A04B3), V.MOUNIKA (17X45A0420), SK.SALEEMUDDIN (16X41A0496), S.GOWTHAM (15X41A0485)** under the guidance and supervision in partial fulfilment of the requirements for award of the degree of Bachelor of Technology in **ELECTRONICS AND COMMUNICATION ENGINEERING** Of **Jawaharlal Nehru Technological University , Kakinada** is a bonafide record of the work carried out under my guidance and supervision at **S.R.K INSTITUTE OF TECHNOLOGY.**



**Mr. D.RAVI TEJ**  
(PROJECT GUIDE)

**S. Sri Gowri**  
**Dr. S.SRI GOWRI**

(HEAD OF THE DEPARTMENT)



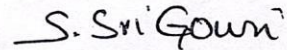
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**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

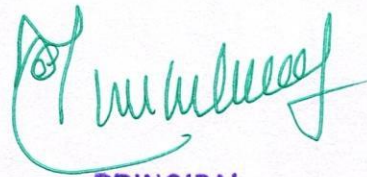
This is to certify that the project entitled "A Low-Power and Small-Area Multiplier for Accuracy-Scalable Approximate Computing" is a bonafide record of work carried out by ABDUL NAZIYA (17X45A0410), T.NAGA DIVYA SRI (17X45A0419), J.SIRISHA (17X45A0411), V.SATISH (16X41A04B1) under the guidance and supervision in partial fulfilment of the requirements for award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING Of Jawaharlal Nehru Technological University , Kakinada is a bonafide record of the work carried out under my guidance and supervision at S.R.K INSTITUTE OF TECHNOLOGY.



Mr. K.VENKATESWARA RAO  
(PROJECT GUIDE)



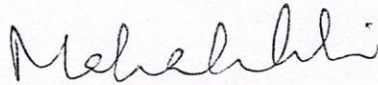
Dr. S.SRI GOWRI  
(HEAD OF THE DEPARTMENT)



PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108,

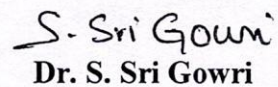
## CERTIFICATE

This is to certify that the Project report entitled “**Conformal Wideband Microstrip Patch Antenna on Cylindrical Platforms**” is a bonafide record of work carried out by **S.Sridevi (17X45A0412)**, **K.Nagaraju (17X45A0417)**, **A.Siva Pavani (16X41A0461)**, **SK.Baji (17X45A0421)** under my guidance and supervision in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in *Electronics and Communication Engineering* of *Jawaharlal Nehru Technological University, Kakinada*.



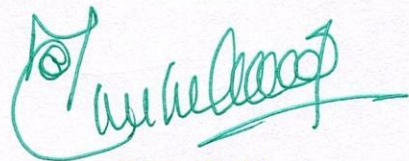
**Mrs. N.V.K. Mahalakshmi**

PROJECT GUIDE



**Dr. S. Sri Gowri**

HEAD OF THE DEPARTMENT



PRINCIPAL

**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

## CERTIFICATE

This is to certify that the project report entitled “**IOT BASED AUTOMATIC ACCIDENT DETECTION FOR RESCUE MANAGEMENT**” is a bonafide record of work carried out by **K. MADHAVI (17X45A0414), Y. KANNA (17X41A0415), K. RESHMA (16X41A0481), D. SONY THERESSA (17X45A0416)** under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**




**Ms. N. MAYURI**

**(PROJECT GUIDE)**

*S. Sri Gowri*  
**Dr. S. SRI GOWRI**

**(HEAD OF THE DEPARTMENT)**



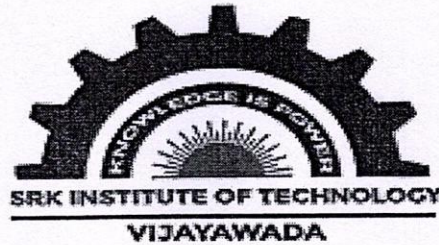
**PRINCIPAL**

**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

CSE A

**SRK INSTITUTE OF TECHNOLOGY**

**ENIKEADU, VIJAYAWADA**



**NAME OF THE STUDENT:** A. Sirisha

**ROLL NUMBER:** 19x41A0501

**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
**SIGNATURE OF EXAMINER**

  
**SIGNATURE OF HOD**

  
**PRINCIPAL**

**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108,**

SRK INSTITUTE OF TECHNOLOGY

ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: B. AMULYA

ROLL NUMBER: 19X41A0502

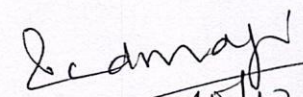
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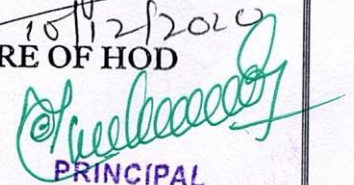
Branch: COMPUTER SCIENCE AND ENGINEERING

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT



SIGNATURE OF EXAMINER

  
10/12/2020  
SIGNATURE OF HOD

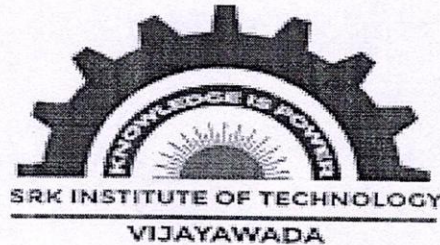


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ENIKEPADU, VIJAYAWADA-521 108.

SRK INSTITUTE OF TECHNOLOGY

ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: A. Vinoothna

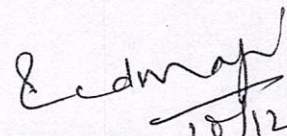
ROLL NUMBER: 19X41A0503

Year/ Semester: I B.Tech - II Semester

Branch: Computer Science And Engineering

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
SIGNATURE OF HOD

  
PRINCIPAL

SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-528 108.

SRK INSTITUTE OF TECHNOLOGY

ENIKEADU, VIJAYAWADA



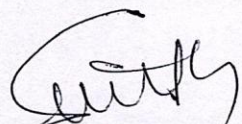
NAME OF THE STUDENT: A. Hema Sri

ROLL NUMBER: 19X41A0504

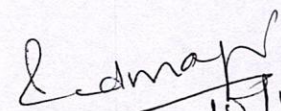
Year/ Semester: I B.Tech - II Semester

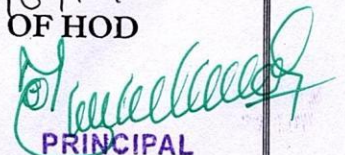
Branch: Computer Science and Engineering

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT



SIGNATURE OF EXAMINER

  
15/12/2020  
SIGNATURE OF HOD

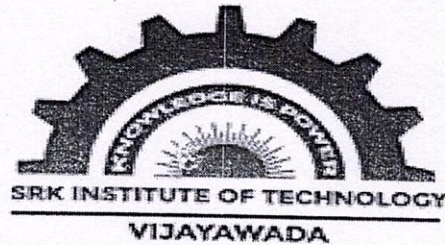
  
PRINCIPAL

SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108,



SRK INSTITUTE OF TECHNOLOGY

ENIKEADU, VIJAYAWADA



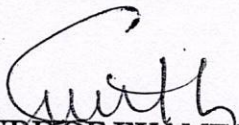
NAME OF THE STUDENT: B. Surya Teja

ROLL NUMBER: 19X41A0605

Year/ Semester: I B.Tech - II Semester

Branch: C.S.E

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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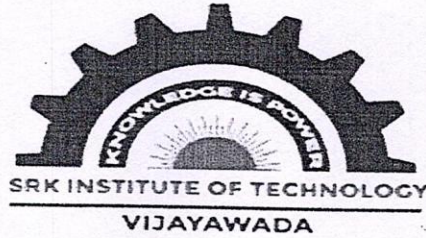
  
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**NAME OF THE STUDENT:** B. Hema Durga

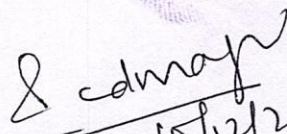
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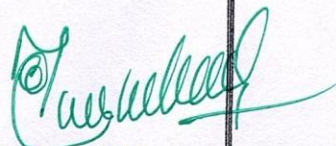
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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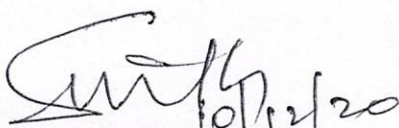
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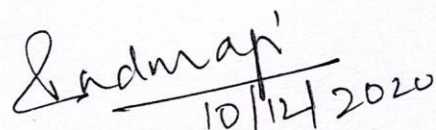


**ROLL NUMBER:** 19X41A0507

**NAME OF THE STUDENT:** B. Jay Sankar

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

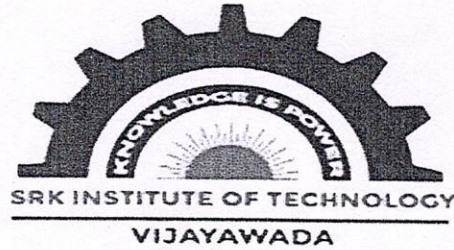
  
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NAME OF THE STUDENT: B. Naga Soumya

ROLL NUMBER: 19X41A0508

Year/ Semester: I B.Tech - II Semester

Branch: computer science

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

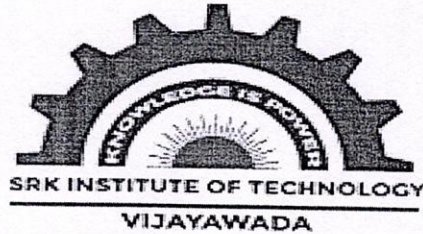
  
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NAME OF THE STUDENT: B. Dhana lakshmi

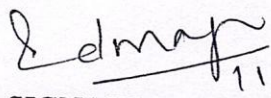
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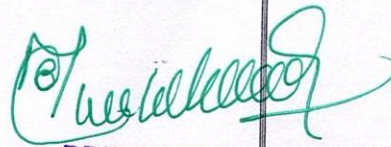
Year/ Semester: I B.Tech - II Semester

Branch: CSE - A

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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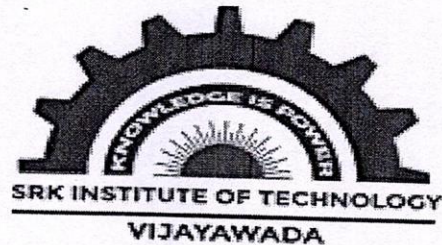
  
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ENIKEADU, VIJAYAWADA



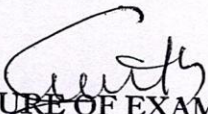
NAME OF THE STUDENT: B. Prayalika

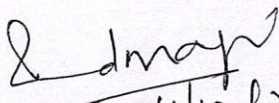
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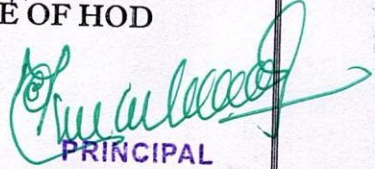
Year/ Semester: I B.Tech - II Semester

Branch: CSE

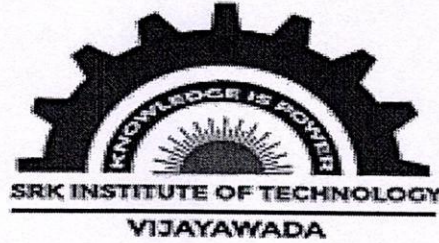
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ENIKEADU, VIJAYAWADA



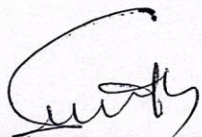
NAME OF THE STUDENT: B. Ramya Raju

ROLL NUMBER: 19X41A0511

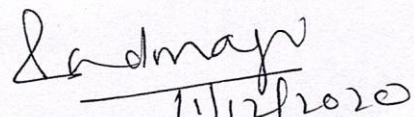
Year/ Semester: I B.Tech - II Semester

Branch: Computer Science

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

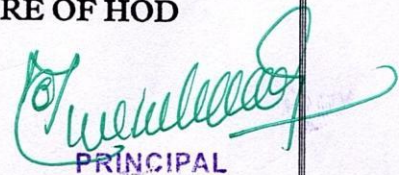


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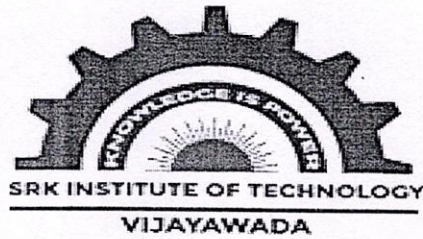


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**NAME OF THE STUDENT:** B. Sreya

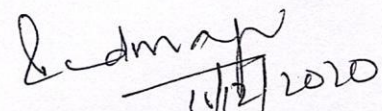
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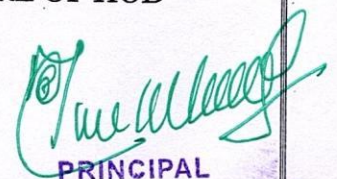
**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer Science and Engineering

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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NAME OF THE STUDENT: B. prasanth

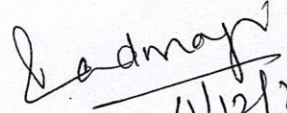
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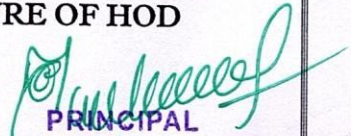
Year/ Semester: I B.Tech - II Semester

Branch: CSE

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
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**NAME OF THE STUDENT:** B. Teerun Sai

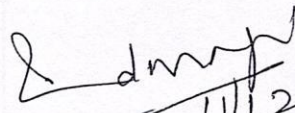
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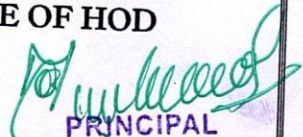
**Year/ Semester:** I B.Tech - II Semester

**Branch:** computer science

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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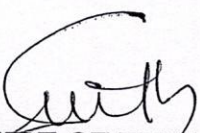
**NAME OF THE STUDENT:** Ch. Nagarkjuna Reddy

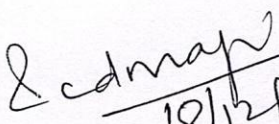
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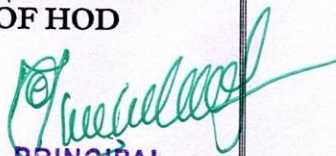
**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer science of Engineering

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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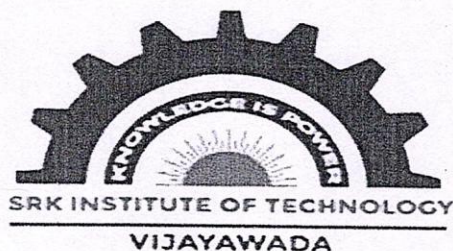
  
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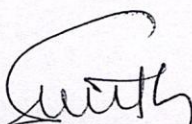
**NAME OF THE STUDENT:** CH. DUHITHA

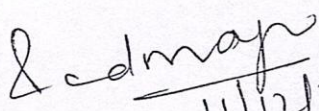
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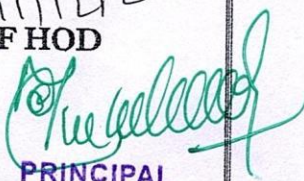
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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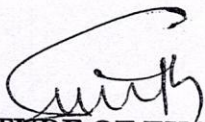
NAME OF THE STUDENT: Ch.V.S.Kiranmai

ROLL NUMBER: 19XL1A0517

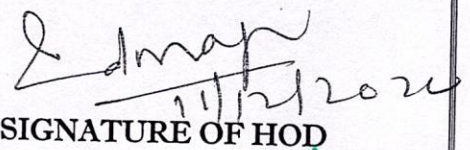
Year/ Semester: I B.Tech - II Semester

Branch: CSE-A

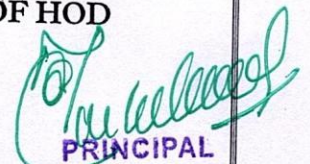
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT



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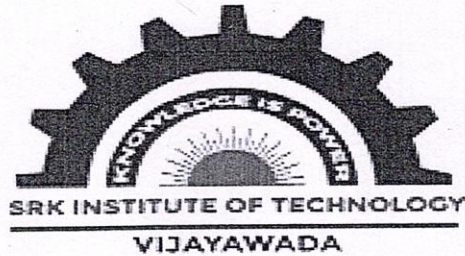


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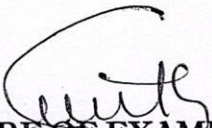
**NAME OF THE STUDENT:** Ch. Vamsi Babu

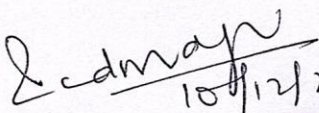
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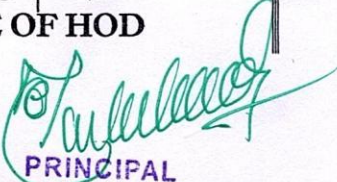
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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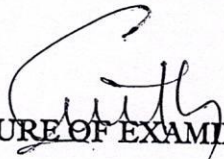
NAME OF THE STUDENT: Ch. Hemanth Sai

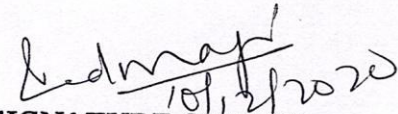
ROLL NUMBER: 19X41A0519

Year/ Semester: I B.Tech - II Semester

Branch: Computer Science

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
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NAME OF THE STUDENT: Ch. Divadatta

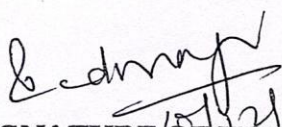
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Year/ Semester: I B.Tech - II Semester

Branch: Computer Science

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

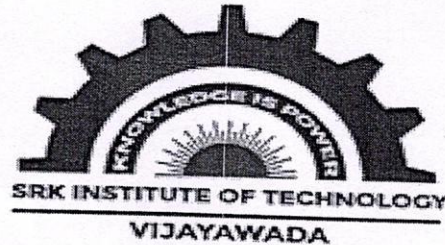
  
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NAME OF THE STUDENT: D. Deepika

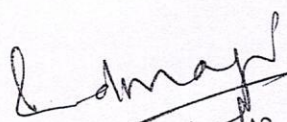
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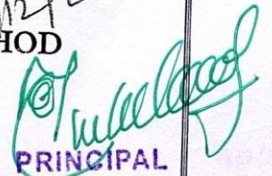
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Branch: CSE

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

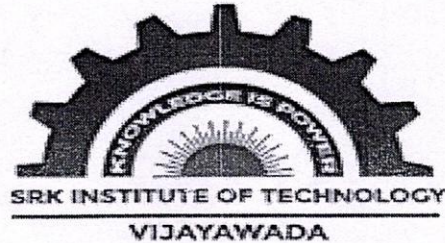
  
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NAME OF THE STUDENT: D. Tulasi Priya

ROLL NUMBER: 19X41A0522

Year/ Semester: I B.Tech - II Semester

Branch: CSE-A

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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NAME OF THE STUDENT: G. Bharu Prakash

ROLL NUMBER: 19X4V00523

Year/ Semester: I B.Tech - II Semester

Branch: Computer Science

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

SIGNATURE OF EXAMINER

SIGNATURE OF HOD

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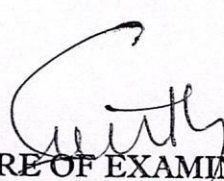
NAME OF THE STUDENT: G. Radha Krishna

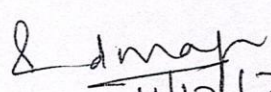
ROLL NUMBER: 19X41A0524

Year/ Semester: I B.Tech - II Semester

Branch: Computer Science

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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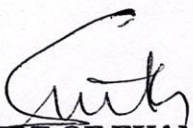
NAME OF THE STUDENT: G. Vinod Vasu

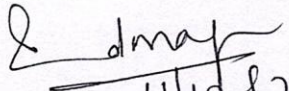
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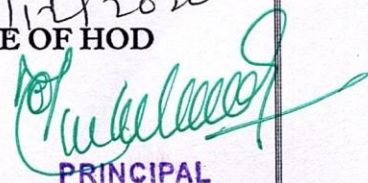
Year/ Semester: I B.Tech - II Semester

Branch: CSE

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
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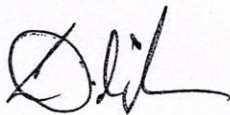
NAME OF THE STUDENT: Grayam-Ramya

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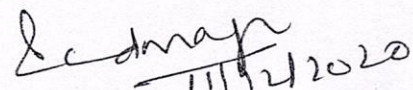
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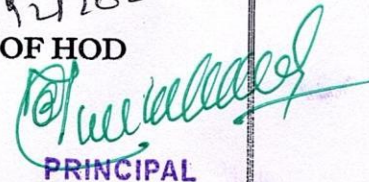
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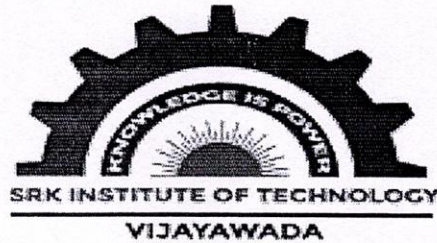


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ENIKEADU, VIJAYAWADA




NAME OF THE STUDENT: G. Tejaswini

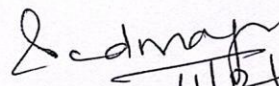
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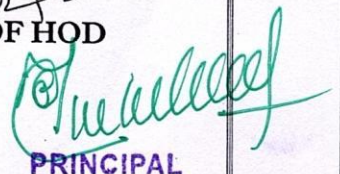
Year/ Semester: I B.Tech - II Semester

Branch: CSE-A

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

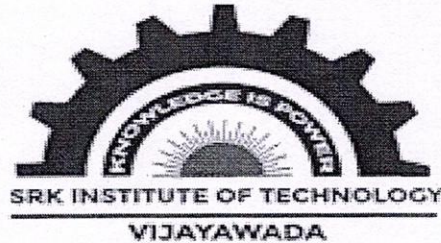
  
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ENIKEPADU, VIJAYAWADA-521 103.

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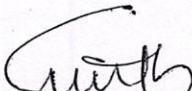
**NAME OF THE STUDENT:** Gasiparthi Adhitha


**ROLL NUMBER:** 19X41A0528

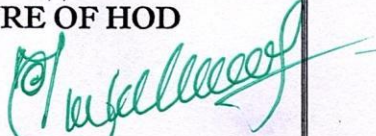
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
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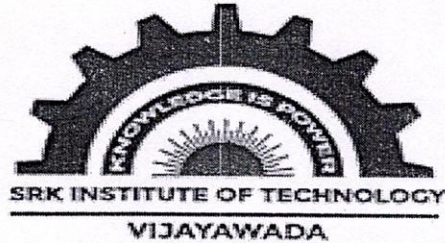
  
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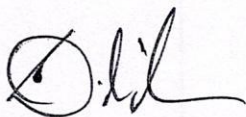
NAME OF THE STUDENT: G. Chandrika Rao?

ROLL NUMBER: 19XU1A0529

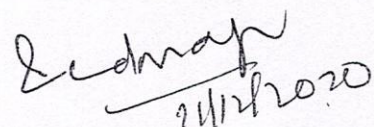
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Branch: CSE-A

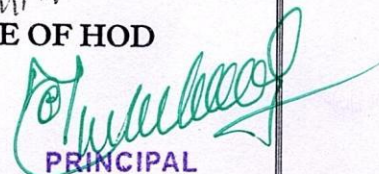
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT



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NAME OF THE STUDENT: G. Hema Sai

ROLL NUMBER: 19X41A0530

Year/ Semester: I B.Tech - II Semester

Branch: CSE-A

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

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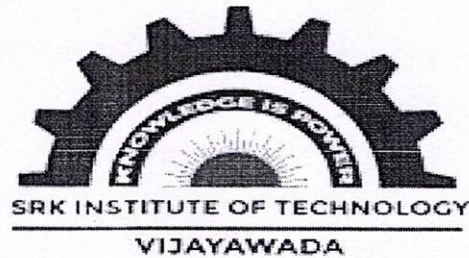
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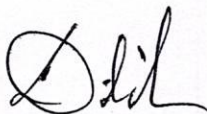
**NAME OF THE STUDENT:** G. Naveen Chowdary

**ROLL NUMBER:** 19X41A0531

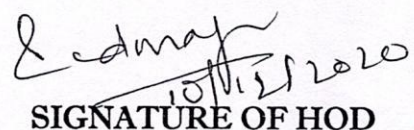
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**Branch:** CSE

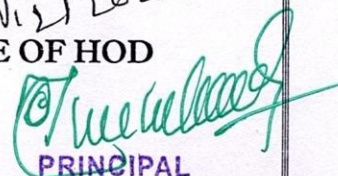
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**SIGNATURE OF EXAMINER**



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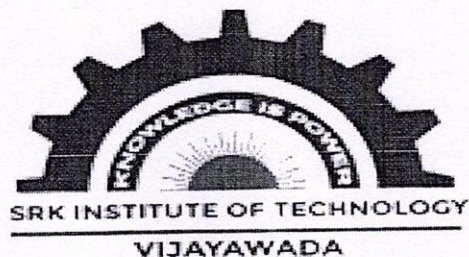


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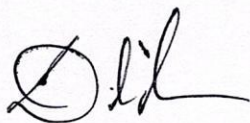
NAME OF THE STUDENT: I. Akhil

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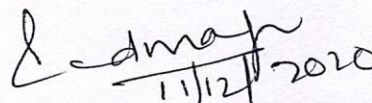
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Branch: CSE

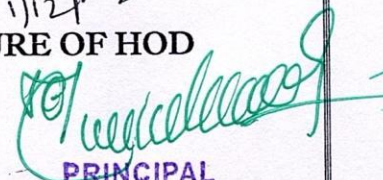
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT



SIGNATURE OF EXAMINER



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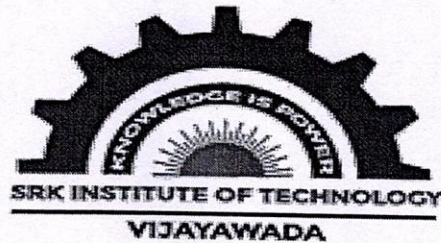


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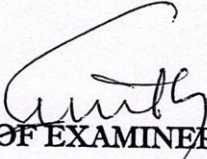
NAME OF THE STUDENT: J. Srikanth.

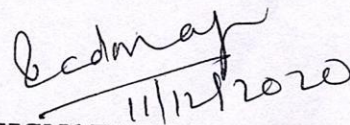
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Year/ Semester: I B.Tech - II Semester

Branch: C&E

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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NAME OF THE STUDENT: J. yugandhar

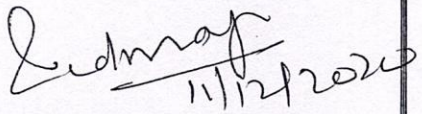
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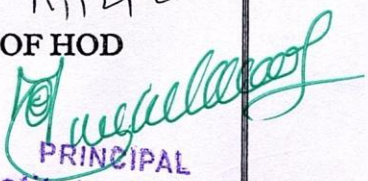
Year/ Semester: I B.Tech - II Semester

Branch: Computer science.

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

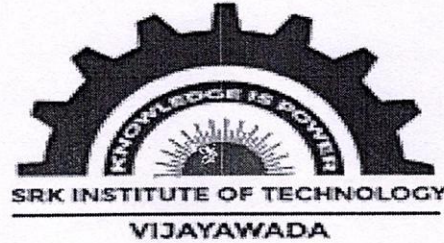
  
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NAME OF THE STUDENT: Rama Chandrika Kasi

ROLL NUMBER: 19X41A0535

Year/ Semester: I B.Tech - II Semester

Branch: CSE-A

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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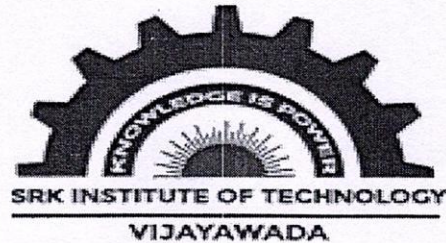
  
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NAME OF THE STUDENT: K. Bhavya Sri Sai Nikitha

ROLL NUMBER: 19X41A0536

Year/ Semester: I B.Tech - II Semester

Branch: Computer Science and Engineering

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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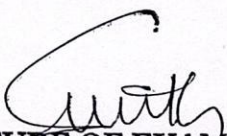
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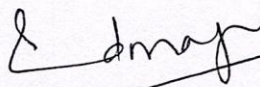


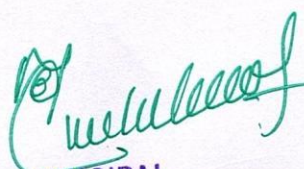
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NAME OF THE STUDENT: K. Pratheesha Rani

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

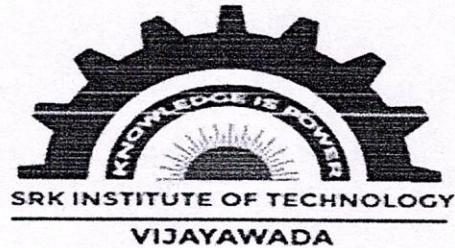
  
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ENIKEPADU, VIJAYAWADA-521 108,

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**ENIKEADU, VIJAYAWADA**



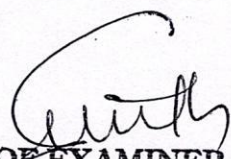
**NAME OF THE STUDENT:** Mr. Pavani

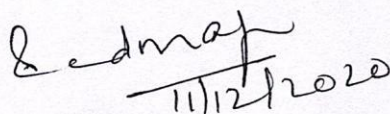
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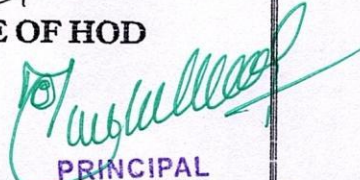
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE-A'

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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ENIKEPADU, VIJAYAWADA-521 108.

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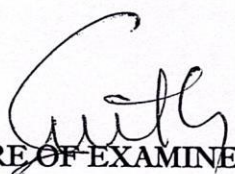
NAME OF THE STUDENT: Mamillapalli Sujatha

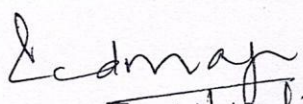
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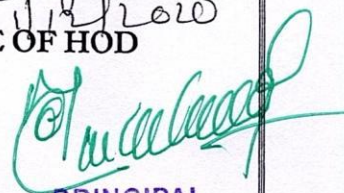
Year/ Semester: I B.Tech - II Semester

Branch: CSE

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

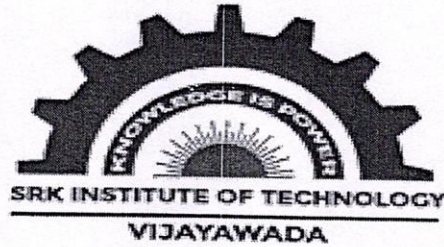
  
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NAME OF THE STUDENT: M. V. padmalati

ROLL NUMBER: 19X41A0540

Year/ Semester: I B.Tech - II Semester

Branch: CSE - A

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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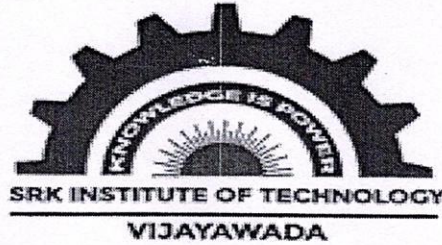
  
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NAME OF THE STUDENT: M. Bajesh

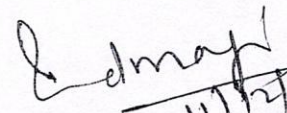
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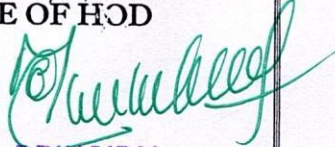
Year/ Semester: I B.Tech - II Semester

Branch: CSE

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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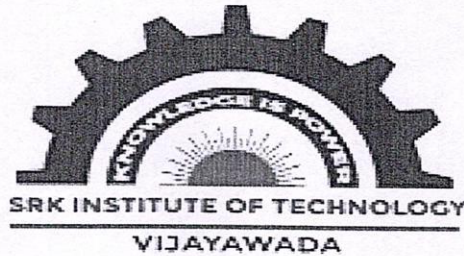
  
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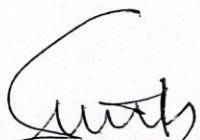
**NAME OF THE STUDENT:** M. Goethika

**ROLL NUMBER:** 19X41A0542

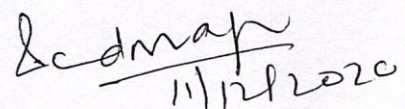
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

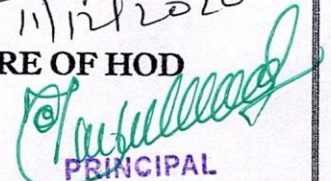
**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT



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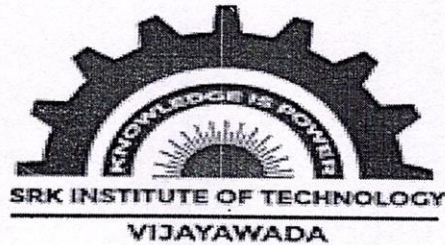
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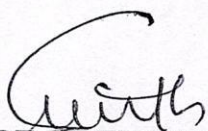
**NAME OF THE STUDENT:** M. Purna Lakshmi Nandu

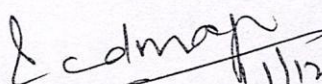
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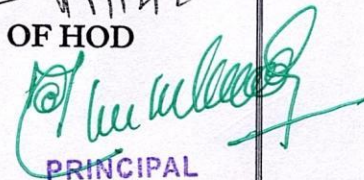
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
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ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: M. Gowthami

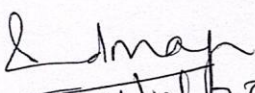
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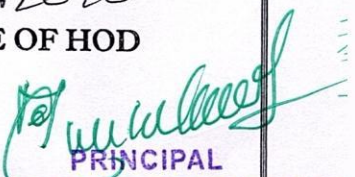
Year/ Semester: I B.Tech - II Semester

Branch: Computer Science & engineering

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

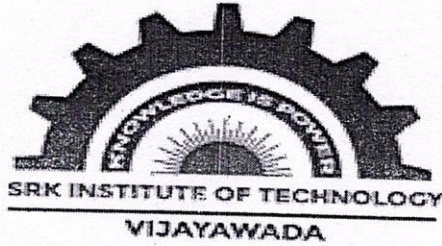
  
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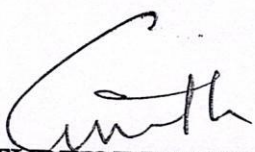
**NAME OF THE STUDENT:** METTELA DIVYA

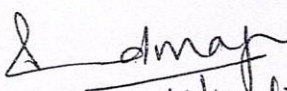
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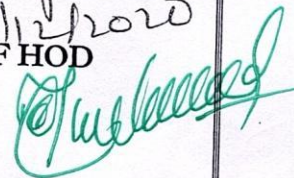
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE-A

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

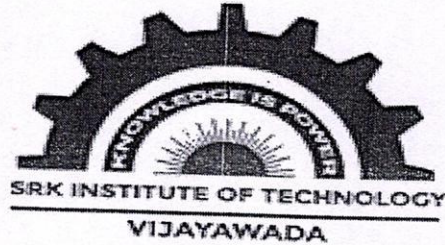
  
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NAME OF THE STUDENT: M. Jyothi Pavan.

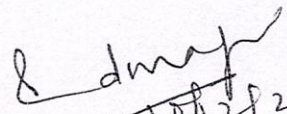
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Year/ Semester: I B.Tech - II Semester

Branch: Computer Science Engineering.

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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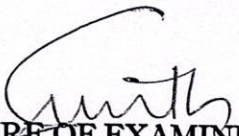
NAME OF THE STUDENT: Md. Salma

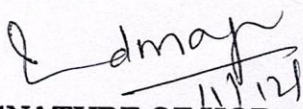
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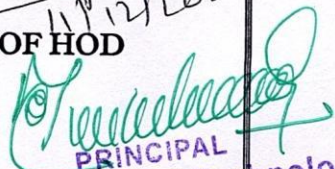
Year/ Semester: I B.Tech - II Semester

Branch: CSE.

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
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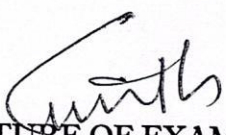
NAME OF THE STUDENT: M. Tejaswini

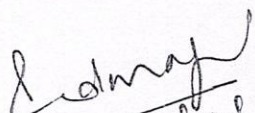
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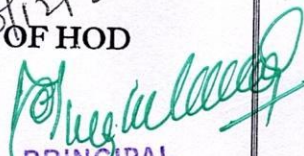
Year/ Semester: I B.Tech - II Semester

Branch: CSE - A

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

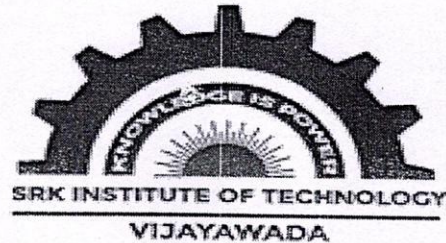
  
15/12/2020  
SIGNATURE OF HOD

  
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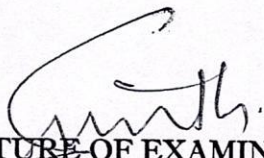
NAME OF THE STUDENT: M. Amani

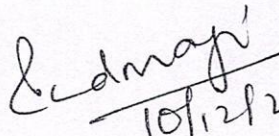
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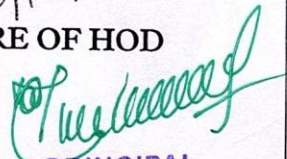
Year/ Semester: I B.Tech - II Semester

Branch: CSE-A

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
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ROLL NUMBER: 19X41A0550

NAME OF THE STUDENT: N. Vamsi Krishna

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

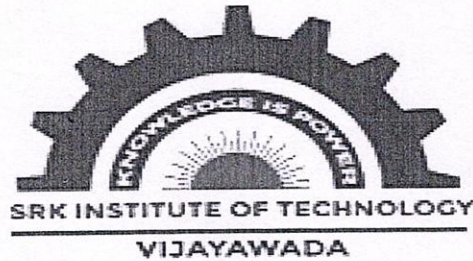
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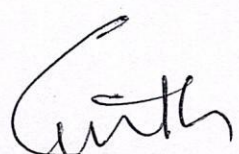
NAME OF THE STUDENT: P. Sowmya

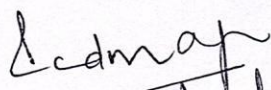
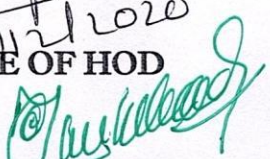
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Year/ Semester: I B.Tech - II Semester

Branch: Computer science and engineering

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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NAME OF THE STUDENT: Pasupuleti - Akhila

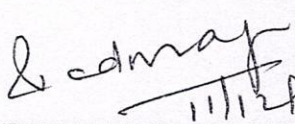
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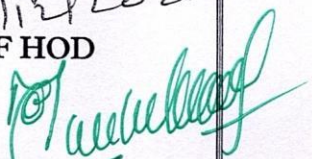
Year/ Semester: I B.Tech - II Semester

Branch: CSF

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
11/12/2020  
SIGNATURE OF HOD

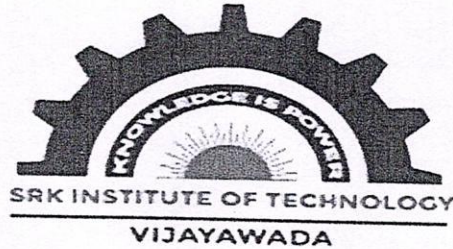
  
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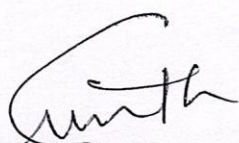
**NAME OF THE STUDENT:** P Vanidurga

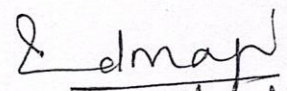
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**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer Science Engineering.

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
**SIGNATURE OF EXAMINER**

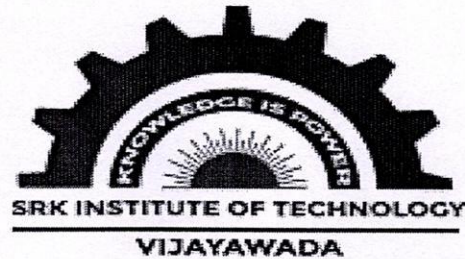
  
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NAME OF THE STUDENT: P. TANUJA

ROLL NUMBER: 19X41A0554

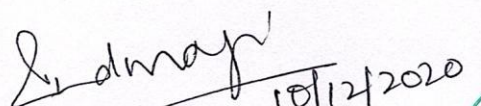
Year/ Semester: I B.Tech - II Semester

Branch: Computer Science and Engineering

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT



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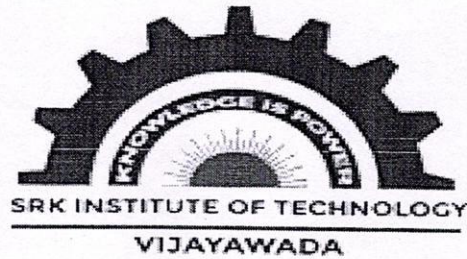


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**NAME OF THE STUDENT:** Rehana Abdul

**ROLL NUMBER:** 19X41A0555

**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer Science and Engineering

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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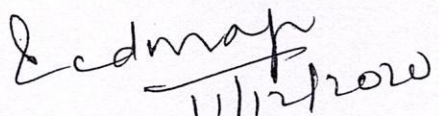



**ROLL NUMBER:** 19x41A0556

**NAME OF THE STUDENT:** R. BHARATH CHAITANYA

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

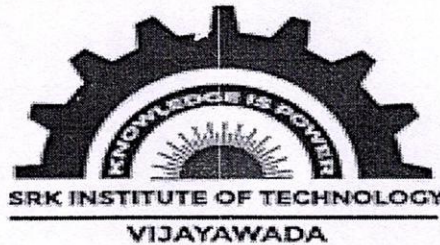
  
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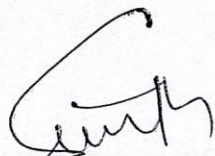
**NAME OF THE STUDENT:** SK-Prasanna

**ROLL NUMBER:** 19XY1A0557

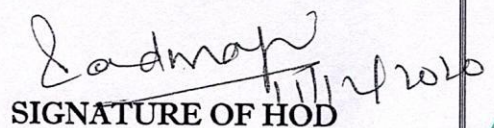
**Year/ Semester:** I B.Tech - II Semester

**Branch:** C.S.E (Computer Science Engineering)

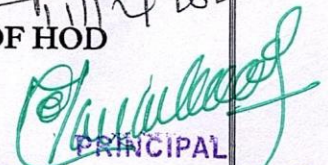
**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT



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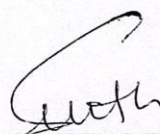
NAME OF THE STUDENT: SK. Rehane

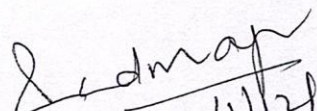
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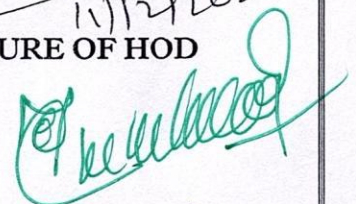
Year/ Semester: I B.Tech - II Semester

Branch: \_\_\_\_\_

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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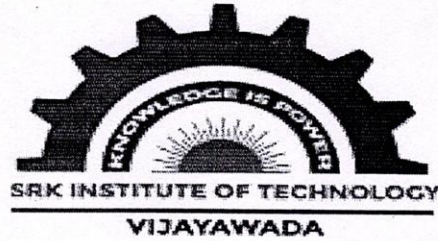
  
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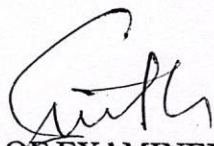
NAME OF THE STUDENT: T.VENKATA SUDARSHAN RAO

ROLL NUMBER: 19X41A0560

Year/ Semester: I B.Tech - II Semester

Branch: COMPUTER SCIENCE ENGINEERING

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

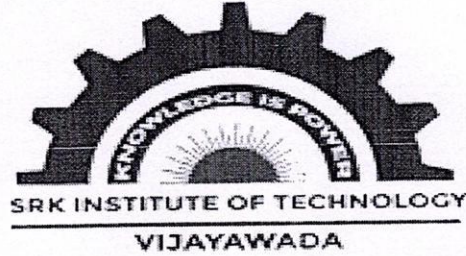
  
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**NAME OF THE STUDENT:** Y. Pavan Teja

**ROLL NUMBER:** 19X41A0562

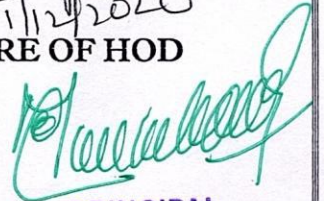
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
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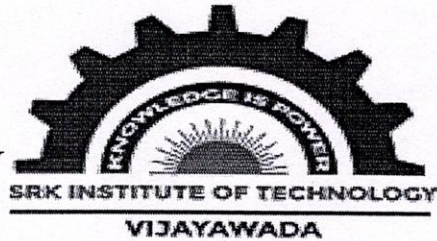


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NAME OF THE STUDENT: Y. Lokesh Arjun

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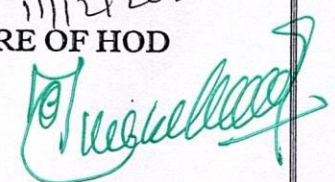
Year/ Semester: I B.Tech - II Semester

Branch: Computer Science

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
11/12/2020  
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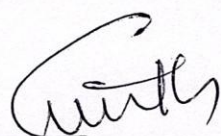
NAME OF THE STUDENT: Mohan Balasi

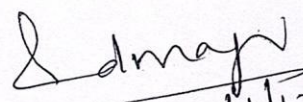
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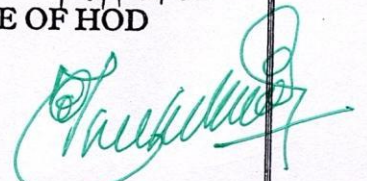
Year/ Semester: I B.Tech - II Semester

Branch: Computer Science Engineering.

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

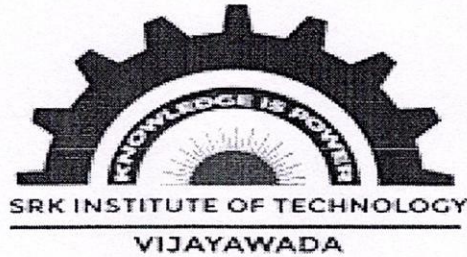
  
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NAME OF THE STUDENT: V. Umadevi

ROLL NUMBER: 19X41A0561

Year/ Semester: I B.Tech - II Semester

Branch: Computer Science and Engineering

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
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**NAME OF THE STUDENT:** Fhariyazunnisa: A

**ROLL NUMBER:** 19X41A0565

**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer Science & Engineering.

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

**SIGNATURE OF EXAMINER**

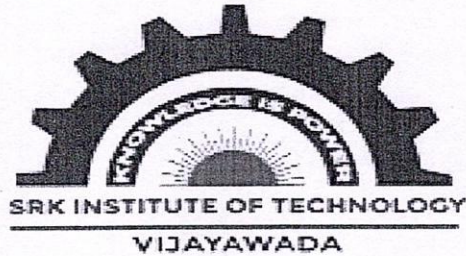
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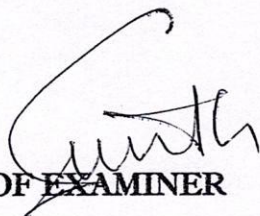
**NAME OF THE STUDENT:** A. Bhargav Teja

**ROLL NUMBER:** 19X41A0566

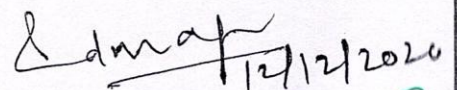
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

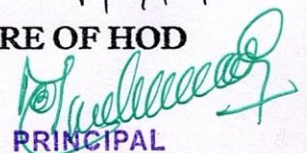
**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT



**SIGNATURE OF EXAMINER**



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NAME OF THE STUDENT: A. Sai deepak

ROLL NUMBER: 19X41A0567

Year/ Semester: I B.Tech - II Semester

Branch: CSE

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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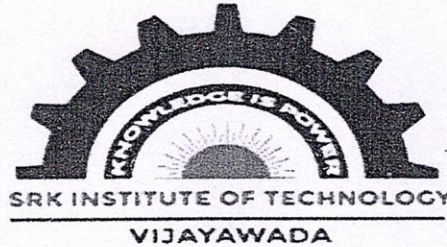
  
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NAME OF THE STUDENT: Banavathu Jyothi.

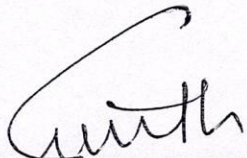
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Year/ Semester: I B.Tech - II Semester

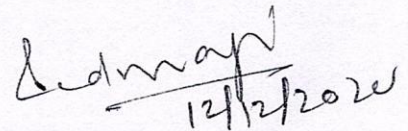
Branch: CSE

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

SIGNATURE OF EXAMINER



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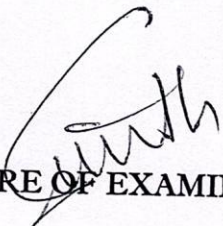
NAME OF THE STUDENT: B. Ramraj

ROLL NUMBER: 19XU1A0569

Year/ Semester: I B.Tech - II Semester

Branch: CSE-B

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
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SIGNATURE OF HOD

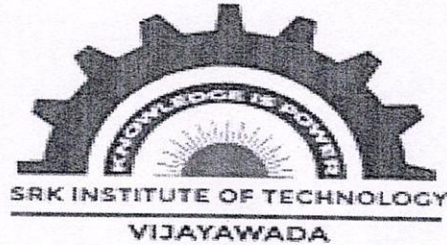
  
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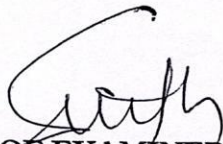
**NAME OF THE STUDENT:** Bonthu Ravi Chandu

**ROLL NUMBER:** 19X41A0570

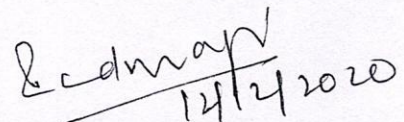
**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer science of engineering

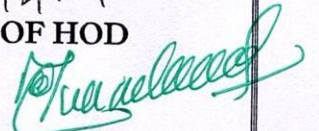
**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT



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**SIGNATURE OF HOD**

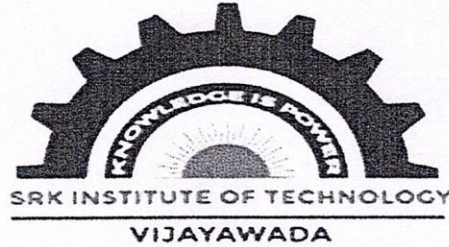


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**NAME OF THE STUDENT:** Y. DEEPU SAI VINAY

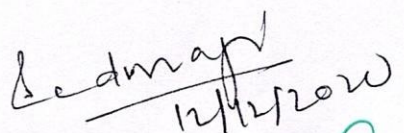
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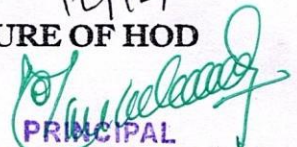
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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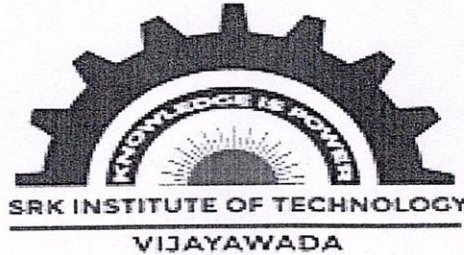
  
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**ENIKEADU, VIJAYAWADA**



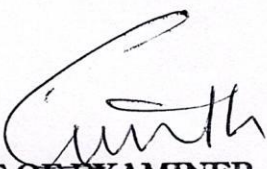
**NAME OF THE STUDENT:** DOPPALA ABHINASH

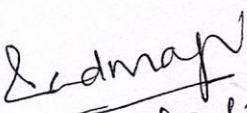
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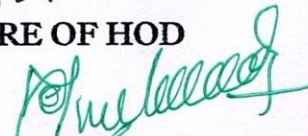
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**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

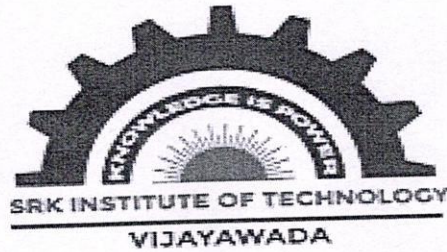
  
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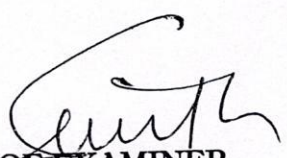
NAME OF THE STUDENT: G. Abhilesh

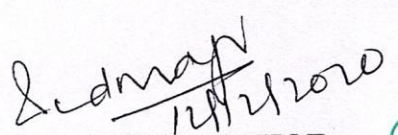
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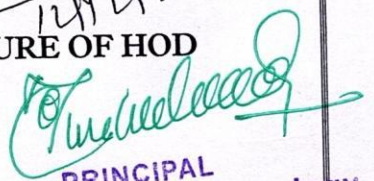
Year/ Semester: I B.Tech - II Semester

Branch: CSE-B

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

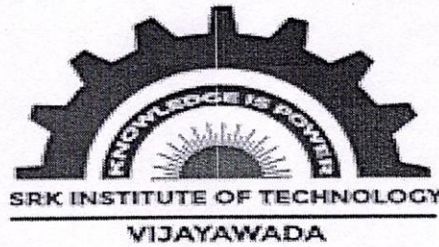
  
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NAME OF THE STUDENT: G. Rajesh

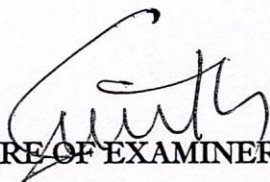
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Year/ Semester: I B.Tech - II Semester

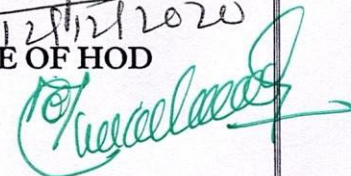
Branch: CSE

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

SIGNATURE OF EXAMINER

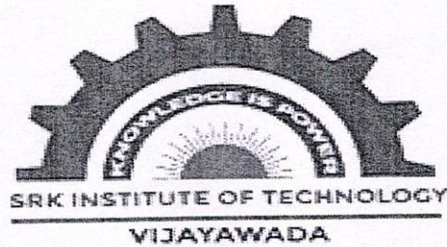


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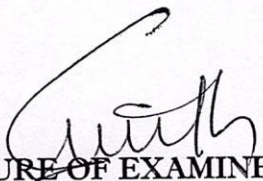
NAME OF THE STUDENT: JAKKA TEJANYA KIMAR

ROLL NUMBER: 19X41A0576

Year/ Semester: I B.Tech - II Semester

Branch: C.S.E

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

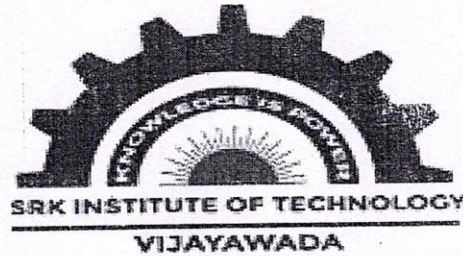
  
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NAME OF THE STUDENT: J. Venkata Sri Kiran

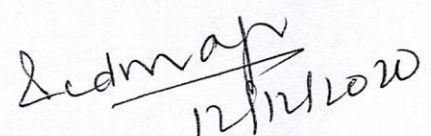
ROLL NUMBER: 19241A0577

Year/ Semester: I B.Tech - II Semester

Branch: Computer science of Engineering.

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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**ENIKEADU, VIJAYAWADA**



**NAME OF THE STUDENT:** K. Pavan Kumar

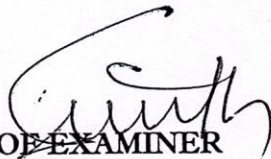
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**Year/ Semester:** I B.Tech - II Semester

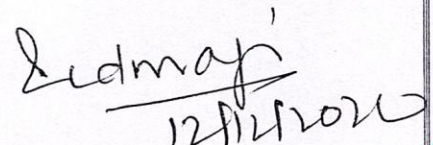
**Branch:** Computer science & engineering

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

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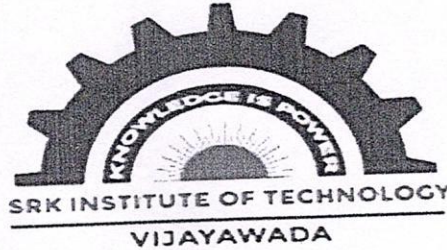
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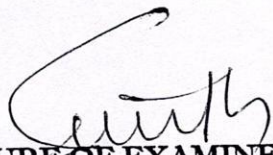
NAME OF THE STUDENT: Kagitha Manju Sri

ROLL NUMBER: 19X41A0579

Year/ Semester: I B.Tech - II Semester

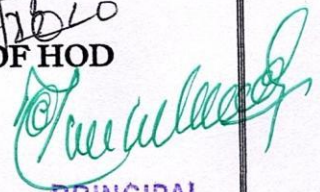
Branch: CSE-B

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT



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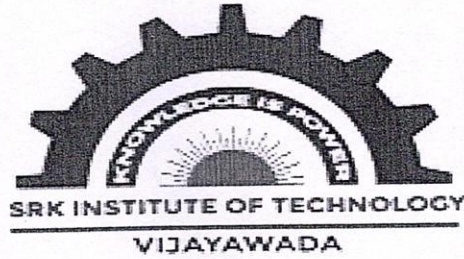


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**NAME OF THE STUDENT:** KALART. SAI SAMPATH

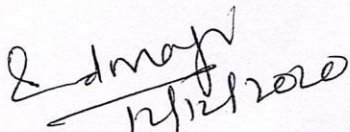
**ROLL NUMBER:** 19X41A0580

**Year/ Semester:** I B.Tech - II Semester

**Branch:** C. S. F

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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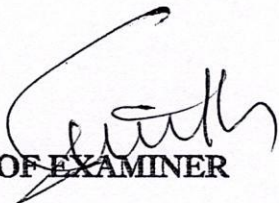
**NAME OF THE STUDENT:** Kalathoti. Divya

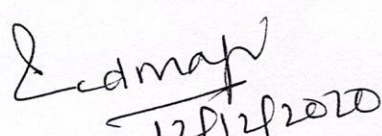
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**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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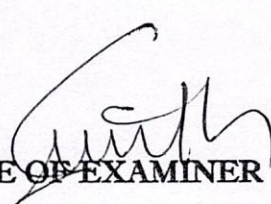
**NAME OF THE STUDENT:** K. Manoj

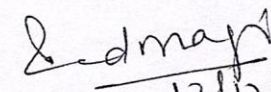
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**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSF

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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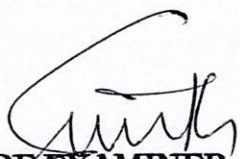
**NAME OF THE STUDENT:** K. Harika

**ROLL NUMBER:** 19X41A0583

**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE - B

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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ROLL NUMBER: 19X4A0524

NAME OF THE STUDENT: K. Bhargavi

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

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NAME OF THE STUDENT: KOTA SWDAR AKHILESH

ROLL NUMBER: 19XV1A0585

Year/ Semester: I B.Tech - II Semester

Branch: CSE

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

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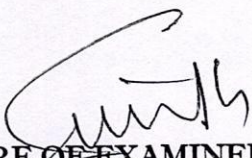
**NAME OF THE STUDENT:** L. Ajaykumar

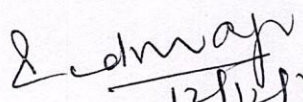
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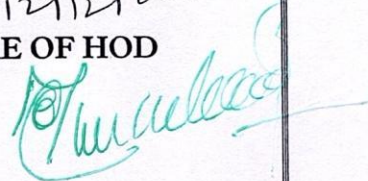
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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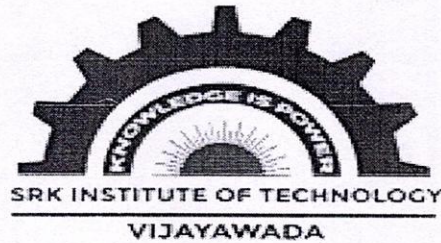
  
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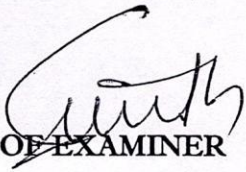
NAME OF THE STUDENT: M. Sathya Vani

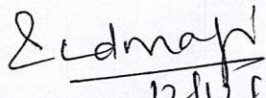
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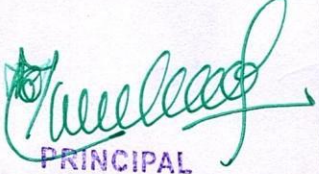
Year/ Semester: **I B.Tech - II Semester**

Branch: C.S.E-B

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

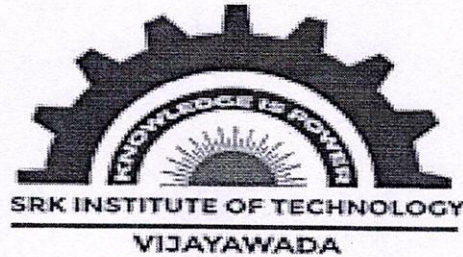
  
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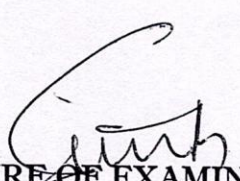
**NAME OF THE STUDENT:** M. Ghana Syamala

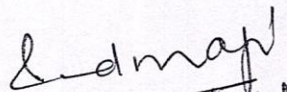
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**Year/ Semester:** I B.Tech - II Semester

**Branch:** computer science Engineering.

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

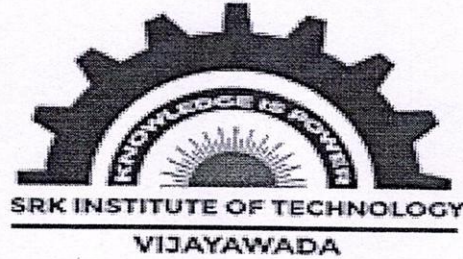
  
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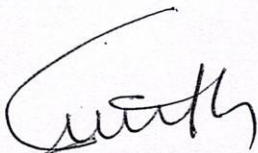
**NAME OF THE STUDENT:** MS Priya

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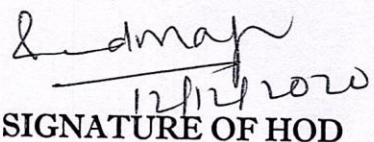
**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer Science Engineering

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT



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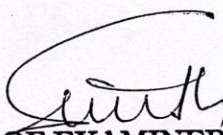
NAME OF THE STUDENT: M. Maveen Sai Kumar

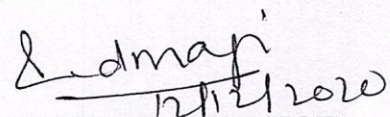
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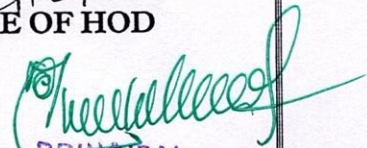
Year/ Semester: I B.Tech - II Semester

Branch: Computer Science of Engineering

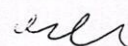
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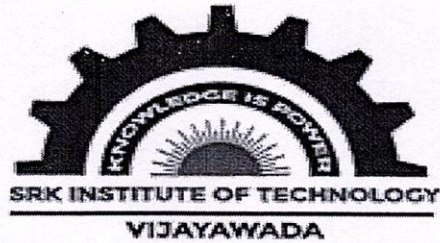
  
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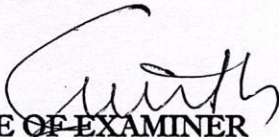
NAME OF THE STUDENT: M.D. Feroz

ROLL NUMBER: 19X41A0591

Year/ Semester: I B.Tech - II Semester

Branch: C.S.E

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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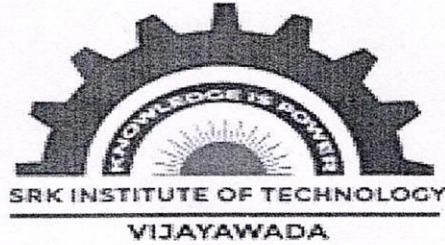
  
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**NAME OF THE STUDENT:** N. Sarvam Reddy

**ROLL NUMBER:** 19X41A0599

**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

**SIGNATURE OF EXAMINER**

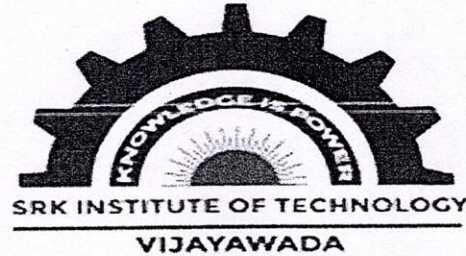
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NAME OF THE STUDENT: N. Swathik

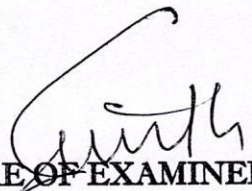
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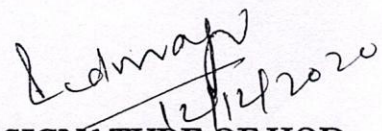
Branch: CSE

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

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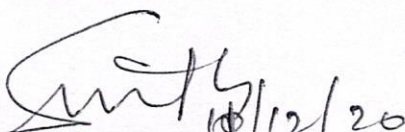
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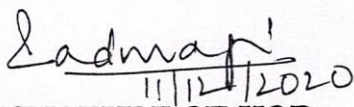


ROLL NUMBER: 19X41A0594

NAME OF THE STUDENT: P. Sai Tarun

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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SIGNATURE OF HOD

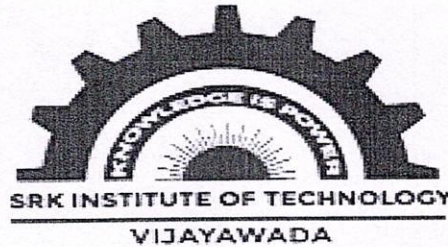


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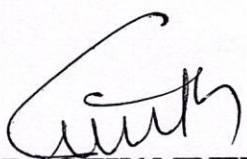
**NAME OF THE STUDENT:** PARASA . PRABHAS

**ROLL NUMBER:** 19X41A0595

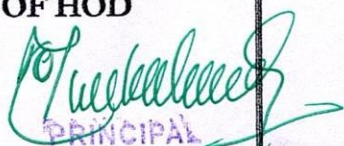
**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer Science of Engineering

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

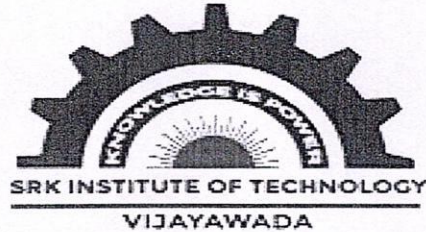
  
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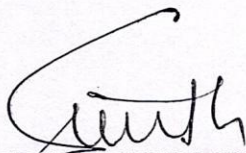
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**ROLL NUMBER:** 19X41A0596

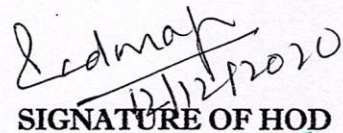
**Year/ Semester:** I B.Tech - II Semester

**Branch:** C.S.B

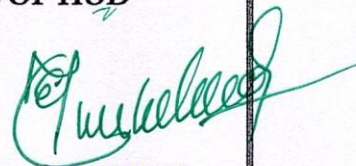
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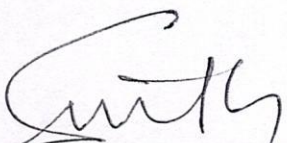
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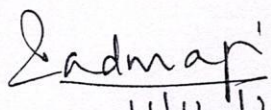



ROLL NUMBER: 19X41A0597

NAME OF THE STUDENT: P. YOSHITHA

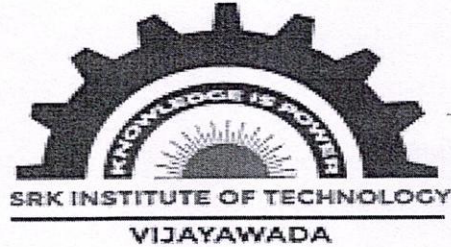
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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**ENIKEADU, VIJAYAWADA**



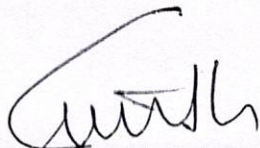
NAME OF THE STUDENT: R. Hemanth kumar

ROLL NUMBER: 19XU1A0598

Year/ Semester: **I B.Tech - II Semester**

Branch: CSE

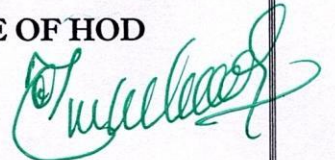
NAME OF THE LABORATORY: **ENGINEERING EXPLORATION PROJECT**



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12/11/2020

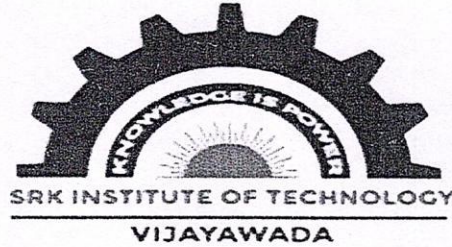
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**ENIKEADU, VIJAYAWADA**



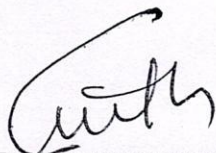
**NAME OF THE STUDENT:** R. Tejasmita

**ROLL NUMBER:** 19X41A0599

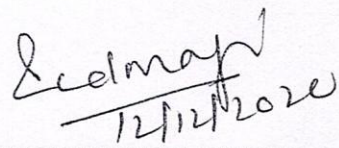
**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer Science Engineering.

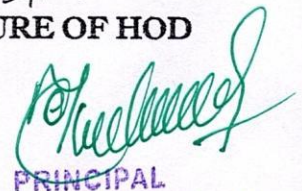
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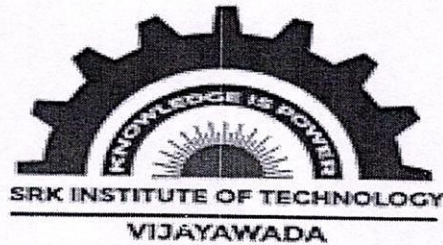


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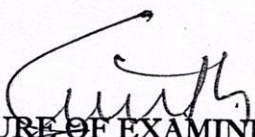
NAME OF THE STUDENT: R. Srujan Sai

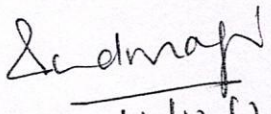
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Year/ Semester: I B.Tech - II Semester

Branch: CSE-B

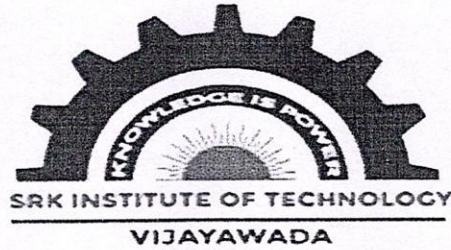
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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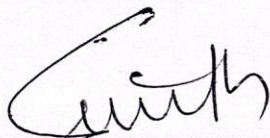
NAME OF THE STUDENT: SaiB. Prasanna Kumar

ROLL NUMBER: 19xy1A05A1

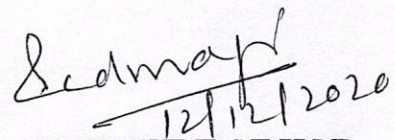
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Branch: CSE-B

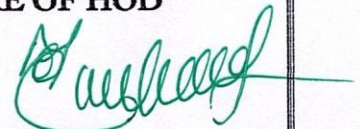
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT



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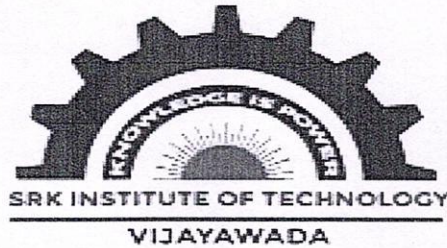
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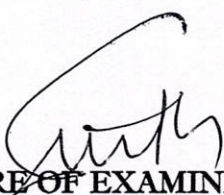
**NAME OF THE STUDENT:** SANA KAUSER

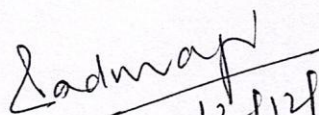
**ROLL NUMBER:** 19X41A05A2

**Year/ Semester:** I B.Tech - II Semester

**Branch:** COMPUTER SCIENCE OF ENGINEERING

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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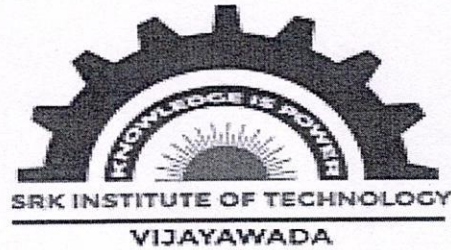
  
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NAME OF THE STUDENT: K. Sandeep Kumar


ROLL NUMBER: 19X41A05A3

Year/ Semester: I B.Tech - II Semester

Branch: CSE-B

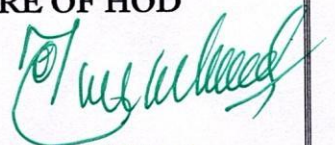
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

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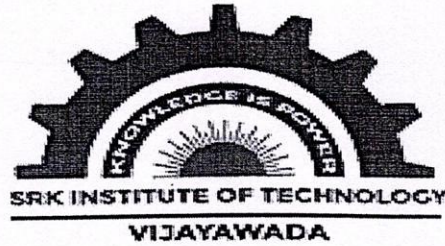
Sandhya  
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NAME OF THE STUDENT: S. Yogendra.

ROLL NUMBER: 19X41A05A4

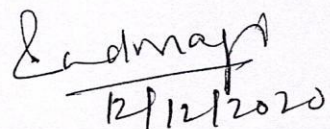
Year/ Semester: I B.Tech - II Semester

Branch: Computer Science Engineering

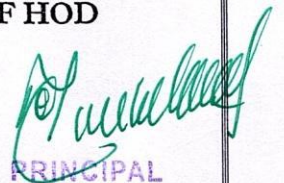
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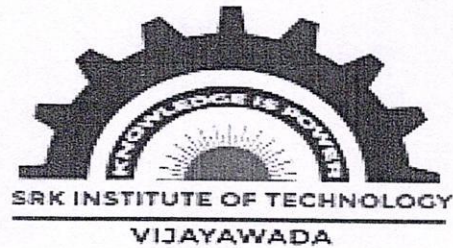


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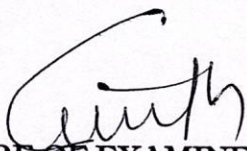
**NAME OF THE STUDENT:** SK. Aamil faiz.

**ROLL NUMBER:** 19X41A05A5.

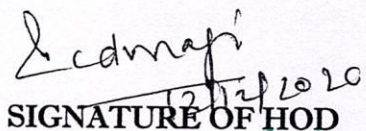
**Year/ Semester:** I B.Tech - II Semester

**Branch:** C.S.E-B

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

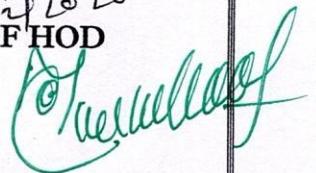


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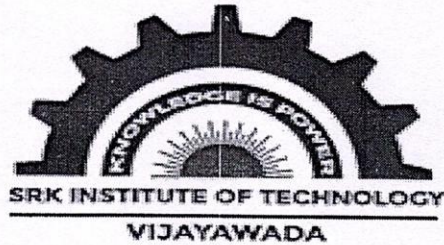
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NAME OF THE STUDENT: Sk. Mohammad Rishi

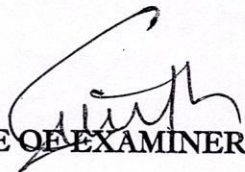
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Year/ Semester: I B.Tech - II Semester

Branch: CSE

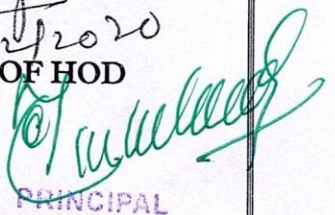
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

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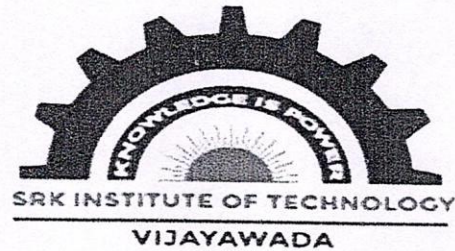


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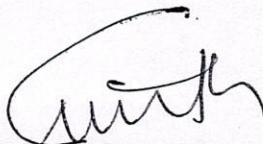
**NAME OF THE STUDENT:** SHAIK. NAGDOOR NAYUM

**ROLL NUMBER:** 19X41A05A7

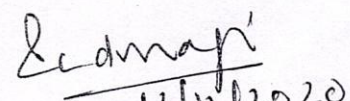
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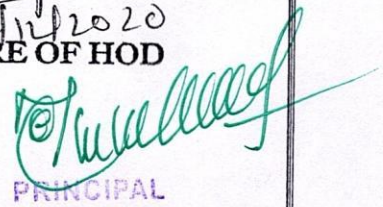
**Branch:** CSF

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT



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NAME OF THE STUDENT: SHAIK · RESHMA

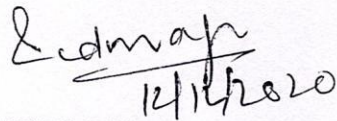
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Year/ Semester: I B.Tech - II Semester

Branch: Computer Science & Engineering

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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NAME OF THE STUDENT: SHAIK. RIYAZ BASHA

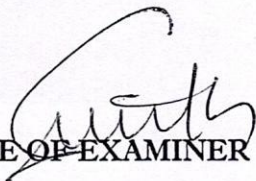
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Year/ Semester: I B.Tech - II Semester

Branch: Computer Science & Engineering

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

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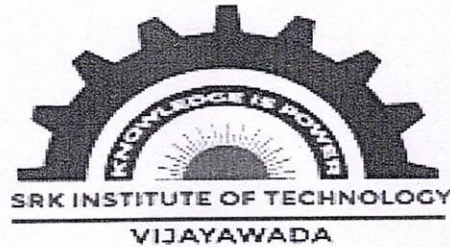
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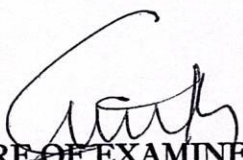
**NAME OF THE STUDENT:** SUHANA PATHAN

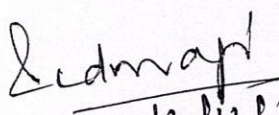
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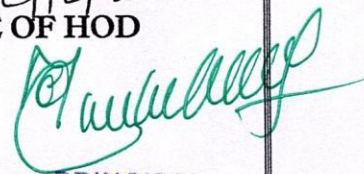
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**Branch:** Computer Science & Engineering.

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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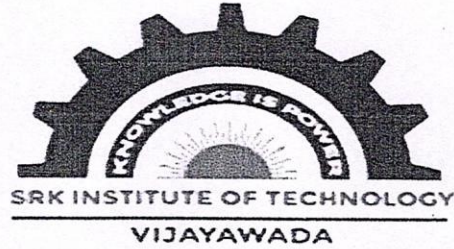
  
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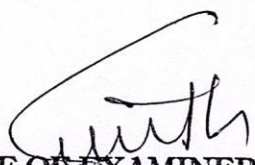
**NAME OF THE STUDENT:** S. Dharmni

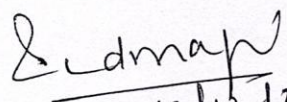
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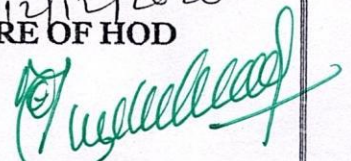
**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer Science Engineering

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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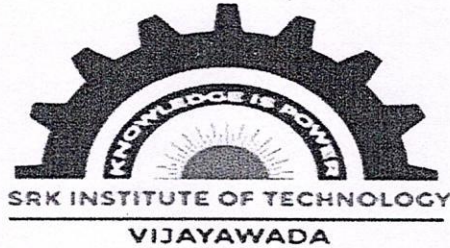
  
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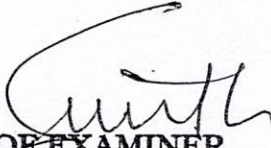
**NAME OF THE STUDENT:** T. Sakanksha.

**ROLL NUMBER:** 19KV1A05B2

**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer Science Engineering

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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NAME OF THE STUDENT: T. Dhana Kumar

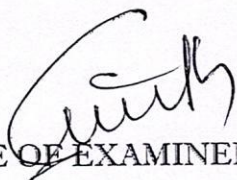
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Year/ Semester: I B.Tech - II Semester

Branch: CSE

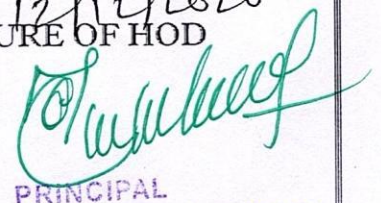
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

SIGNATURE OF EXAMINER



SIGNATURE OF HOD

S. Lakshmi  
12/12/2020

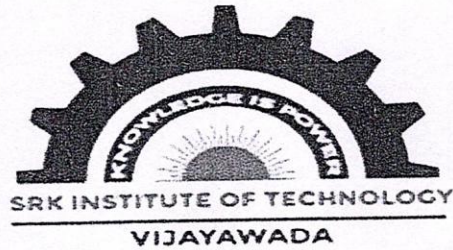


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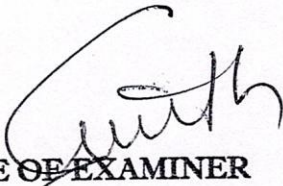
**NAME OF THE STUDENT:** T. Naresk

**ROLL NUMBER:** 19X41A05B4

**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

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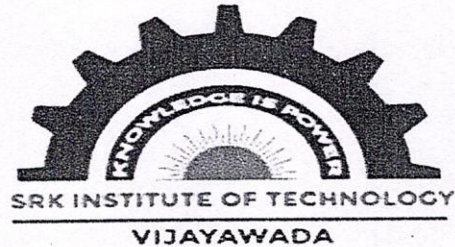
  
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**NAME OF THE STUDENT:** U. Sathvika

**ROLL NUMBER:** 19X41A05B5

**Year/ Semester:** I B.Tech - II Semester

**Branch:** Computer Science Engineering

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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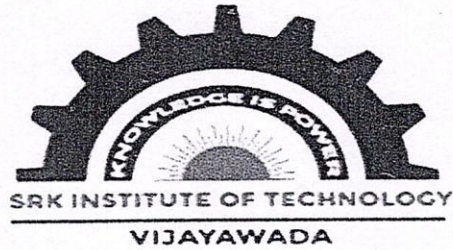
  
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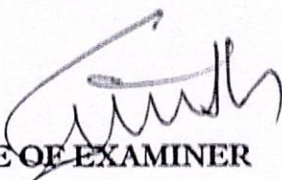
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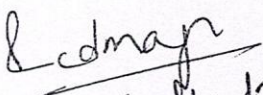
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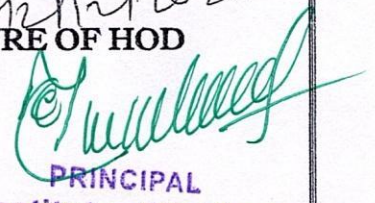
**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE-B

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

  
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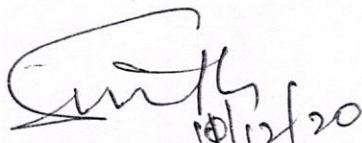
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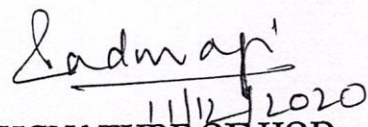



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NAME OF THE STUDENT: V. Chaitanya Sai

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

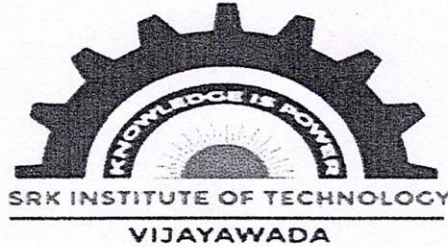
  
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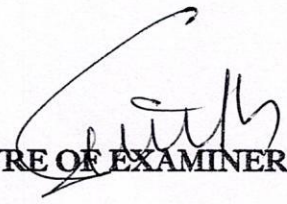
**NAME OF THE STUDENT:** V. TARUN

**ROLL NUMBER:** 19X41A0588

**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

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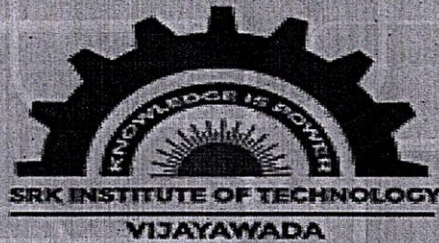
  
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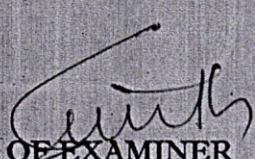
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ROLL NUMBER: 19X411A05B09

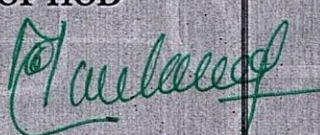
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Branch: computer science and engineering

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
SIGNATURE OF EXAMINER

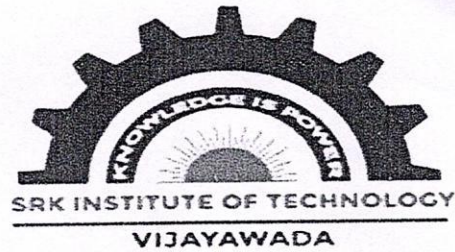
  
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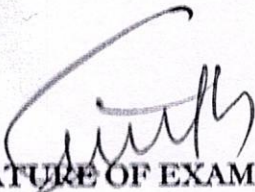
**NAME OF THE STUDENT:** Y. SAI SATYANATH

**ROLL NUMBER:** 19X41A05C0

**Year/ Semester:** I B.Tech - II Semester

**Branch:** CSE

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

  
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ENERGY PREDICTION USING MACHINE LEARNING

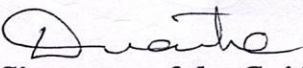
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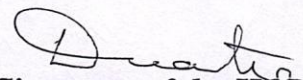
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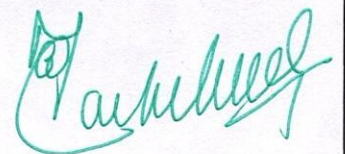
**CERTIFICATE**

This is to certify that this project report entitled “**ENERGY PREDICTION USING MACHINE LEARNING**” is the bonafide work of **Ms. V. YAMINI SAI SAKUNTALA (16X41A0555)**, **Mr. V. DINESH CHANDRA (16X41A0557)**, **Ms. S. NAVYA DURGA (16X41A0543)**, and **Mr. B. ANANTH SRI RAM (16X45A0505)** in partial fulfilment of the requirements for the award of the graduate degree in **BACHELOR OF TECHNOLOGY** during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

  
*Signature of the Guide*  
(Dr D. Haritha)

  
*Signature of the HOD*  
(Dr D. Haritha)

**Signature of the External Examiner**

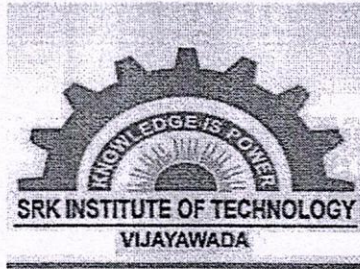


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DROWSY DRIVER DETECTION USING NEURALNETWORKS

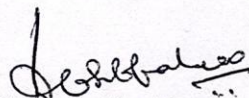
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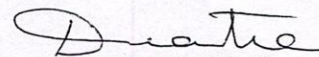


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(D.V.Subba Rao)

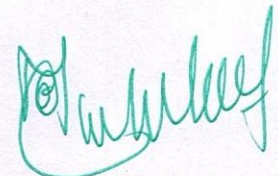
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(Dr. D. Haritha)

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Signature of the External Examiner

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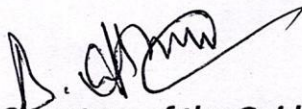
# S.R.K INSTITUTE OF TECHNOLOGY



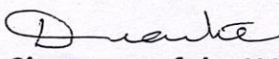
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This is to certify that this project report entitled "FACE RECOGNITION USING FACENET" is the bonafide work of Ms.M.Divya Sri Sudha (16X41A0529) , Mr.G.DurgaRao (16X41A0512), Ms.S.Satya Sheela(16X41A0544), Ms.P.DivyaTeja (16X41A0538) in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academics 2019-2020. This Work has carried out under our supervision and guidance.

  
*Signature of the Guide*

(Dr.B.AshaLatha)

  
*Signature of the HOD*

(Dr.D.Haritha)

Signature of the External Examiner

## STUDENT PERFORMANCE ANALYSIS

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This is to certify that this project report entitled "STUDENT PERFORMANCE ANALYSIS" is the bonafide work of **R.LAVANYA (16X41A0541)**, **V.VINUTHNA REDDY (16X41A0558)**, **L.LIKHITHA (16X41A0525)**, **K.RAVI KIRAN (16X41A0522)** in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

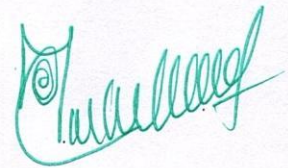
*Radhika*  
(Dr. A .Radhika)

*Signature of the Guide*

(Dr. D. Haritha)

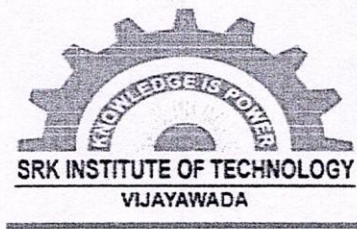
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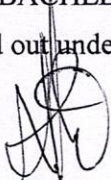
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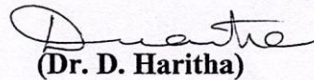
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This is to certify that this project report entitled "TRAFFIC ANALYSIS USING MACHINE LEARNING" is the bonafide work of Ms V.MEGHANA (16X41A0554), Ms. V.KAVYASREE (16X41A0559), Ms. V.YASASWI (16X41A0556), and Mr. E.SURYA PRASAD (16X41A0511) in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.



**(Dr. N. Neelima Priyanka)**

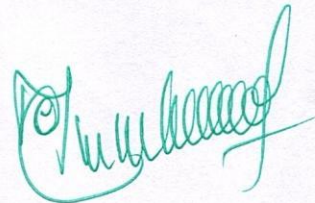
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**(Dr. D. Haritha)**

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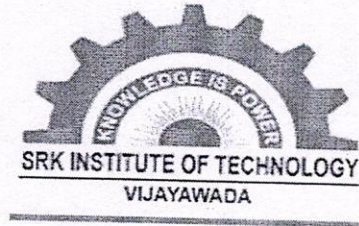
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This is to certify that this project report entitled “**LUNG CANCER PREDICTION USING MACHINE LEARNING**” is the bona fide work of Ms. K.ROHITHA (16X41A0518), Mr. P.JAYADEEP (16X41A0539), Ms. Y.CHARITA CHOWDARY (16X41A0560) and Mr. K.NAGA PHANINDRA (16X41A0519) in partial fulfilment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

(N. Sudhakar Reddy)  
*Signature of the Guide*

*Signature*  
(Dr. D. Haritha)  
*Signature of the HOD*

Signature of the External Examiner

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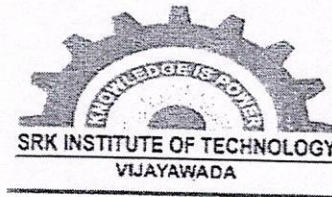
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STUDENT LEARNING EVALUATION USING MACHINE LEARNING


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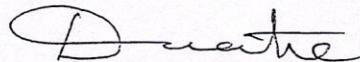


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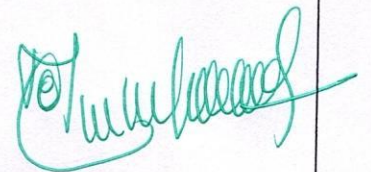
  
(Ch. Ambedkar)

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(Dr. D. Haritha)

*Signature of the HOD*

Signature of the External Examiner



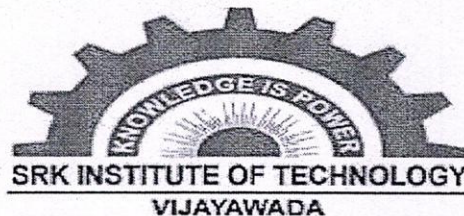
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FAKE NEWS DETECTION USING MACHINE LEARNING

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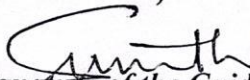
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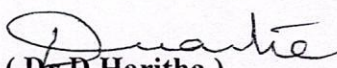


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This is to certify that the project report entitled "FAKE NEWS DETECTION USING S.Likhitha Chowdary (16X41A0548), B.Rupesh (16X41A0506), A.Giridhar (16X41A0503) under my guidance and supervision in partial fulfilment of the requirements for award of the degree of bachelor of technology during the academic year 2019-2020 in Computer Science Engineering of Jawaharlal Nehru Technological University, Kakinada.

( M.Sumanth )

  
*Signature of the Guide.*

  
( Dr.D.Haritha )

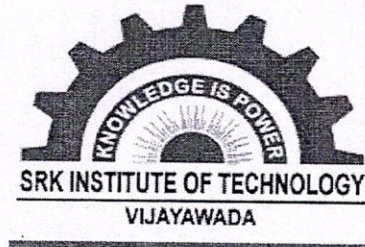
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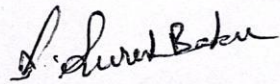
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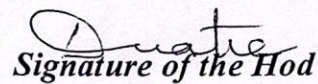


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This is to certify that this project reported entitled “**SPEECH EMOTION RECOGNITION**” is the bonafied work of Ms. S.Monica (16X41A0550), Mr. SK.Farook (16X41A0545), Ms.M.Suhsma (16X41A0531), and Mr. G.Harish (16X41A0513) in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This work has carried out under our supervision and guidance.

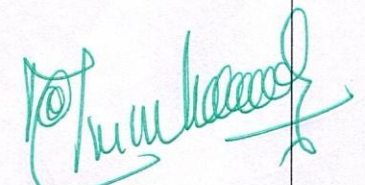
  
*Signature of the Guide*

(S.Suresh Babu)

  
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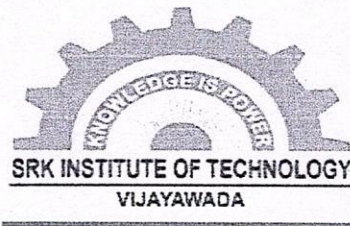
(Dr.D.Haritha)

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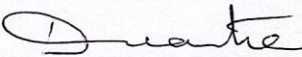


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This is to certify that this project report entitled “**STRATIFYING NEWS USING BERT ALGORITHM IN MACHINE LEARNING**” is the bonafide work of **Ms. CH.ARUNA(16X41A0501), Ms. K.SUSHMA(16X41A0521), Mr. S.HARSHA(16X41A0542) and Mr. M.DHANUNJAY(16X41A0532)** in partial fulfillment of the requirements for the award of the graduate degree in **BACHELOR OF TECHNOLOGY** during the academic year 2019-2020. This Work has carried out under our supervision and guidance.


  
(P. BHAGYA RAJU)

*Signature of the Guide*

  
(Dr. D. Haritha)

*Signature of the HOD*

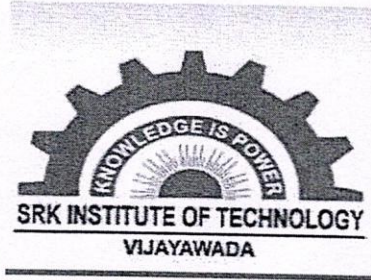
Signature of the External Examiner

  
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**CERTIFICATE**

This is to certify that this project report entitled “**HUMAN ACTIVITY RECOGNITION USING SMARTPHONES**” is the bonafide work of Ms **M.SRILAKSHMI (16X41A0527)**, Ms **SK.HABIBUNNISA (16X41A0546)**, Mr **K.SUDHEER (16X41A0520)**, and Mr **K.PURNA CHANDRASEKHAR (16X41A0523)** in partial fulfillment of the requirements for the award of the graduate degree in **BACHELOR OF TECHNOLOGY** during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

*M. Naresh Babu*

(M.NareshBabu)

*Signature of the Guide*

*Dr. D. Haritha*

(Dr. D.Haritha)

*Signature of the HOD*

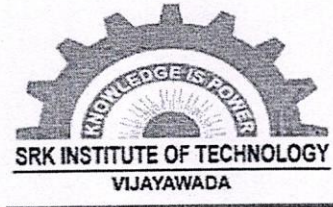
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Signature of the External Examiner

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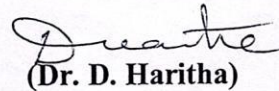
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This is to certify that this project report entitled "SMART STUDENT REWARDS RECOMMENDATION SYSTEM USING MACHINE LEARNING" is the bonafide work of Ms. M.PALLAVI (16X41A0535), Ms. J.PRIYANKA (16X41A0517), Mr. B.ROSE KUMAR (16X41A0504) and Mr. I.SANDILYA (16X41A0516) in partial fulfilment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.



(M. Rithvik)

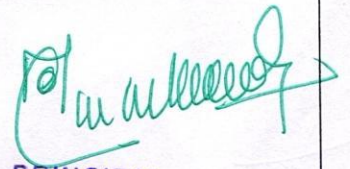
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(Dr. D. Haritha)

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**Signature of the External Examiner**



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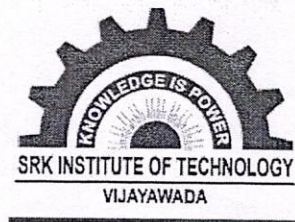
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APRIL 2020

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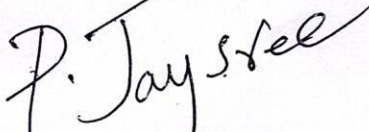
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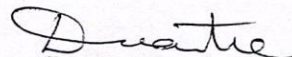


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This is to certify that this project report entitled “INDIAN WATER QUALITY ANALYSIS USING MACHINE LEARNING” is the bonafide work of Ms T.PRIYANKA (16X41A0551) ,Ms P.PRIYANKA(16X41A0540), Mr P.YAHOSHUVA(16X41A0537), Mr. V.RAMESH(16X41A0553) in partial fulfilment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

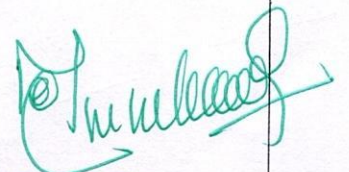
  
(P.JAYASREE)

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(Dr. D. Haritha)

*Signature of the HOD*

Signature of the External Examiner



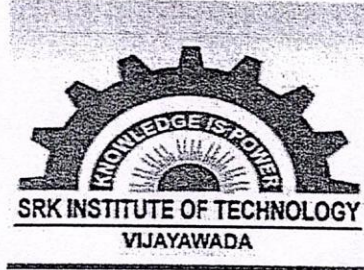
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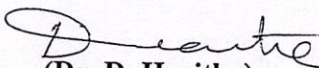


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This is to certify that this project report entitled “**Data Analytics of Books Recommendation System**” is the bonafide work of Ch. MOUNIKA (16X41A0508), K.SAIDURGA (16X41A0514), D.NAGAPRATEEP (16X41A0510), G.CHAKRADHAR (16X41A0515) in partial fulfilment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

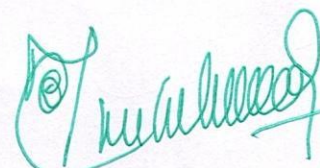
  
(K. Sri Lakshmi)

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(Dr. D. Haritha)

*Signature of the HOD*

Signature of the External Examiner



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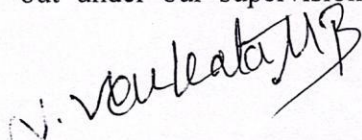
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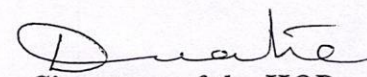
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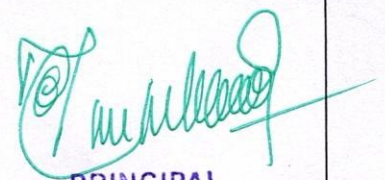
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This is to certify that this project report entitled "AUTHORSHIP VERIFICATION ON TWITTER DATA" is the bonafide work of Ms. M. Sindhu Reddy (16X41A0590), Ms. T. Anjana Devi (16X41A05B4), Ms. M. Pooja (16X41A0591) and Mr. T. Joel Ruthvik (16X41A05B5) in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

  
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(N. V. Madhu Bindu)

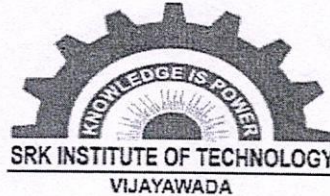
  
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(Dr. D Haritha)

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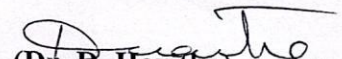


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This is to certify that this project report entitled “**AUTHOR HAND WRITING RECOGNIZATION USING DEEP LEARNING**” is the bonafide work of **Ms. P.SOWMYA SREE, Mr. V.SAINATH, Ms.SK.SANA SULTANA, Ms. K.SANTHI SUDHA** in partial fulfilment of the requirements for the award of the graduate degree in **BACHELOR OF TECHNOLOGY** during the academic year 2016-2020. This Work has carried out under our supervision and guidance.

  
(Dr. D. Haritha)

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(Dr. D. Haritha)

*Signature of the HOD*

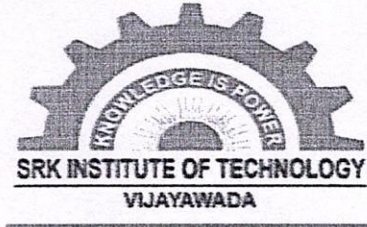
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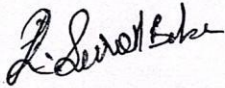
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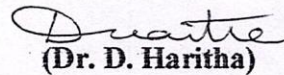
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This is to certify that this project report entitled "POWER CONSUMPTION FORECASTING" is the bonafide work of **Ms. L. MOUNIKA TEJA (16X41A0589), Mr. A.ANJINEYULU (16X41A0562), Ms. K.ROHINI (16X41A0588) and Ms. CH.JYOTHIRLATHA (16X41A0567)** in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.



**(S. Suresh Babu)**

*Signature of the Guide*



**(Dr. D. Haritha)**

*Signature of the HOD*

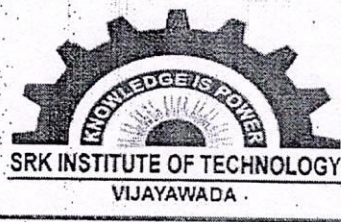
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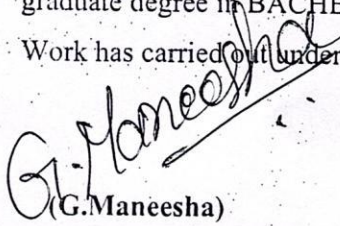
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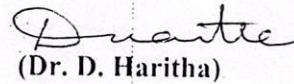


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This is to certify that this project report entitled "HEART DISEASE PREDICTION USING MACHINE LEARNING" is the bonafide work of Ms.B.PRAVEENA DURGA(16X41A0563), Ms.B.PRAVALLIKA(16X41A0565), Ms. K.SIRISHA(16X41A0585), Mr.G.RAVI TEJA(16X41A0574) in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

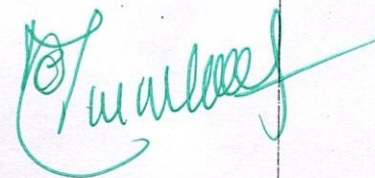
  
(G. Maneesha)

*Signature of the Guide*

  
(Dr. D. Haritha)

*Signature of the HOD*

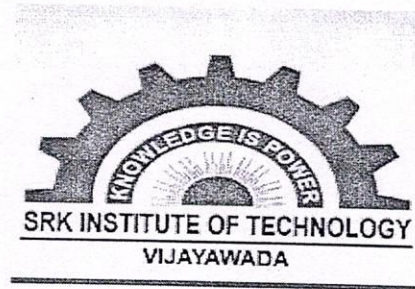
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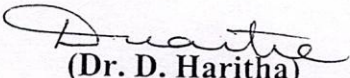
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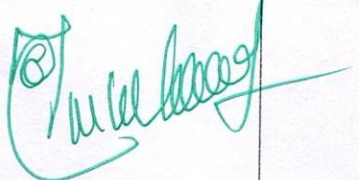
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This is to certify that this project report entitled **-DENGUE SPREAD PREDICTION USING MACHINE LEARNING** is the bonafide work of Ms. P.DURGA SWATHI (16X41A05A5), Ms. P.PAVANI (16X41A05A3), Ms. S.SNEHAMANI (17X45A0502), K.SAI SOUMYA SRI (16X41A0578), in partial fulfillment of the requirements for the award of the graduate degree in **BACHELOR OF TECHNOLOGY** during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

  
(D.V.V. Brahmachari)  
*Signature of the Guide*

  
(Dr. D. Haritha)  
*Signature of the HOD*

Signature of the External Examiner



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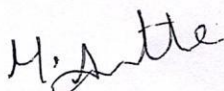
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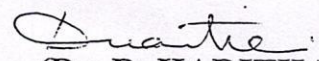
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This is to certify that this project report entitled "PREDICTING FUTURE SALES" is the bonafide work of N.NAGA SIRISHA, Y.MOUNIKA, D.PRAVEEN, K.ROHIT in partial fulfillment of the requirements for the award of the graduate degree in Department of BACHELORS OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

  
(M. ANITHA)  
*Signature of the Guide*

  
(Dr. D. HARITHA)  
*Signature of the HOD*

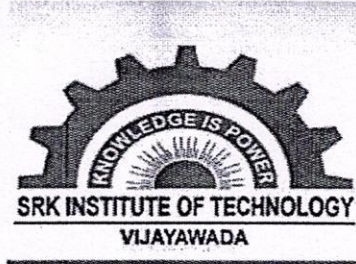
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This is to certify that this project report entitled "AIR QUALITY PREDICTION USING MACHINE LEARNING" is the bonafidework of Ms. N. YASWANTHI (16X41A0598), Ms. V.KAVYA(16X41A05B9), Mr. A.NAGA MANIKANTA(16X41A05C0), in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

*J. Niranjani*  
(J. Niranjani)  
*Signature of the Guide*

*Dr. D. Haritha*  
(Dr. D. Haritha)  
*Signature of the HOD*

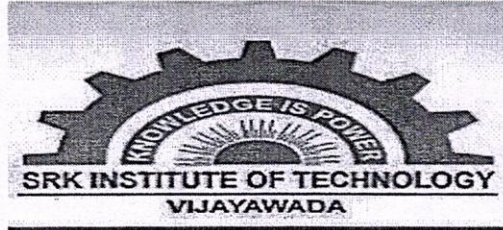
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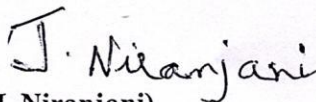
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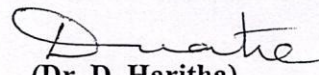


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This is to certify that this project report entitled “**QR CODE GENERATOR AND SCANNER FOR LIBRARY BOOKS**” is the bonafide work of Ms. S.KANAKA MAHA LAKSHMI (16X41A05B0), Ms. N.GNANA SAI(16X41A0596), Ms. P. MANASA(16X41A05A1), Mr.N.CHANDRA BABU(16X41A0597), in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

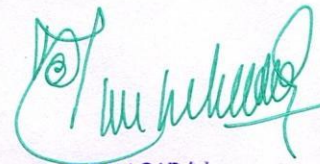
  
(J. Niranjani)

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(Dr. D. Haritha)

*Signature of the HOD*

Signature of the External Examiner

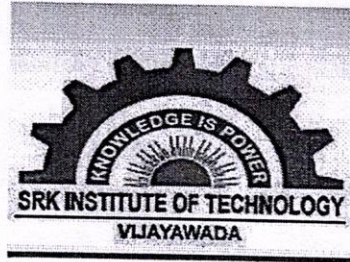


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This is to certify that this project report entitled "GPS ENABLED BUS LOCATOR" is the bonafide work of Ms. K.VIJAYA DURGA(16X41A0586), Ms. CH. LAKSHMI PRIYA(16X41A0568), MR. P.KUNDAN RAGHAV(16X41A05A0) and Mr. B.ABDUL RAHAMAN(16X41A0564) in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

(D.V. Subba Rao)

*Signature of the Guide*

(Dr. D. Haritha)

*Signature of the HOD*

Signature of the External Examiner

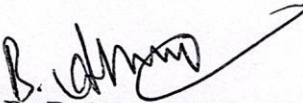
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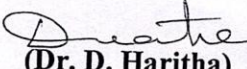


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This is to certify that this project report entitled “CLOUD DETECTION USING SATELLITE IMAGERY” is the bonafide work of Ms G. GAYATHRI (16X41A0577), Ms P. YAMINI(17X45A0503), Ms G.PUJITHA (16X41A0576), in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

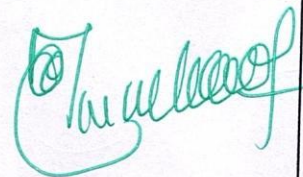
  
(Dr B. Asha Latha)

*Signature of the Guide*

  
(Dr. D. Haritha)

*Signature of the HOD*

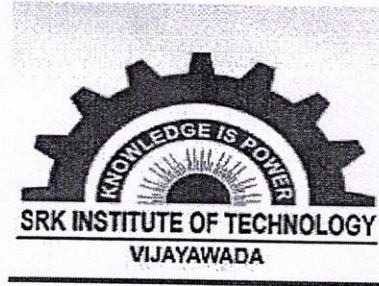
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This is to certify that this project report entitled “**Fake Profiles Identification in Online Social Network Using Machine Learning**” is the bonafide work of Ms **K.DURGA MADHURI(16X41A0582)**, Ms. **S.DIVYA SREE(17X45A0504)**, Mr. **D.VIJAY KUMAR(16X41A0570)** and Mr.**Y.SAIRAM (16X41A05B6)** in partial fulfillment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

*Radhika*  
(Dr.A.Radhika)

*Signature of the Guide*

*Dr. D. Haritha*  
(Dr. D. Haritha)

*Signature of the HOD*

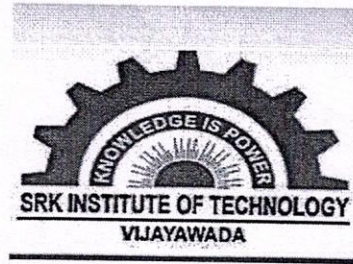
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*Principal*

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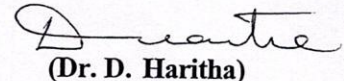
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This is to certify that this project report entitled **-FAKE NEWS DETECTION** is the bonafide work of **Ms. E. JAHNAVI (16X41A0573), Ms. V.AKSHITA (16X41A05B7), Mr. S. AVINASH (16X41A05A9), Ms. K. HARITHA (16X41A0587)**, in partial fulfillment of the requirements for the award of the graduate degree in **BACHELOR OF TECHNOLOGY** during the academic year 2019-2020. This Work has carried out under our supervision and guidance.



**(Dr. N. Neelima Priyanka)**

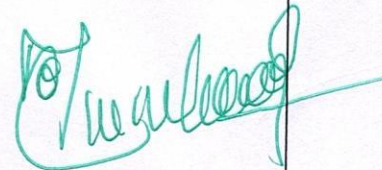
*Signature of the Guide*



**(Dr. D. Haritha)**

*Signature of the HOD*

*Signature of the External Examiner*



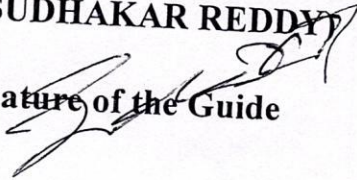
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**CERTIFICATE**

This is to certify that this project report entitled "**IMAGE CAPTION GENERATOR USING CNN & LSTM**" is the bonafide work of Ms. K.SRAVANI(16X41A0581),G.VENKATARAMANA(16X41A0575),N.VEERA NJANEYULU(16X41A0599),D.R.N.MAHESH(17X45A0501) in partial fulfillment of the requirements for the award of the degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This Work has carried out under our supervision and guidance.

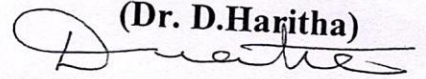
(N.SUDHAKAR REDDY)

Signature of the Guide

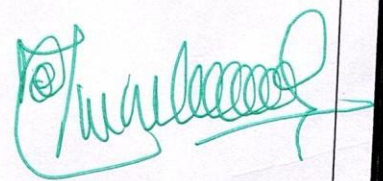


(Dr. D.Haritha)

Signature of the HOD



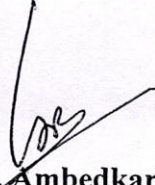
Signature of the External Examiner



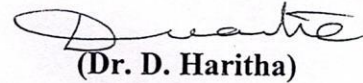
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## CERTIFICATE

This is to certify that this project report entitled "STUDENT PERFORMANCE PREDICTION USING MACHINE LEARNING" is the bonafide work of Ms. R.Madhuri (16X41A05A7), Ms. A.Sithara (17X45A0505), Ms. R.Reetu Satya Brahmini (16X41A05A8), Ms. P.Kavya Sri(16X41A05A2) in partial fulfilment of the requirements for the award of the graduate degree in BACHELOR OF TECHNOLOGY during the academic year 2019-2020. This work has been carried out under our supervision and guidance.



(Ch. Ambedkar)  
*Signature of the Guide*



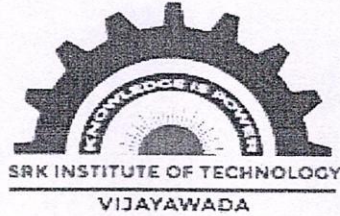
(Dr. D. Haritha)  
*Signature of the HOD*

Signature of the External Examiner



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**ENIKEADU, VIJAYAWADA**



**ROLL NUMBER:** 19X41A1201

**NAME OF THE STUDENT:** Ab. Naseem Akram

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

*Y.V. Nardani 9/12/2020*  
**SIGNATURE OF EXAMINER**

*S. Anwar 9/12/2020*  
**SIGNATURE OF HOD**

*[Handwritten Signature]*

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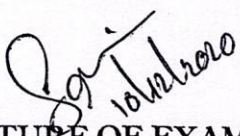
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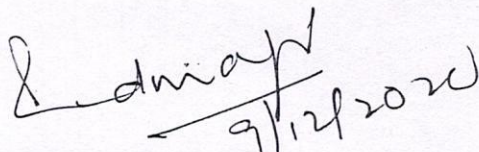


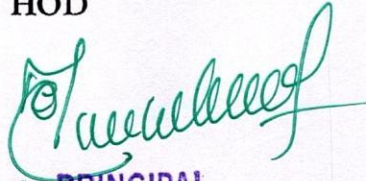
ROLL NUMBER: 19X41A1202

NAME OF THE STUDENT: A. S. Anjali

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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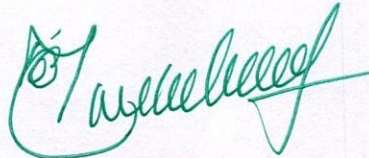
ROLL NUMBER: 19X41A 1203

NAME OF THE STUDENT: A. Hemanth

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y.v xlandc 9/12/2020  
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S. Adnan 9/12/2020  
SIGNATURE OF HOD

  
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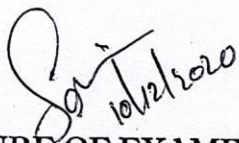
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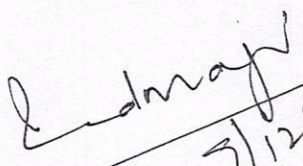


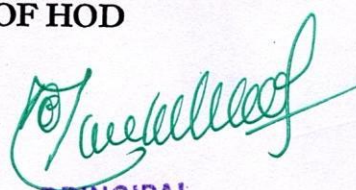
ROLL NUMBER: 19X41A1204

NAME OF THE STUDENT: A. Jhansi

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

  
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ROLL NUMBER: 19X41A1205

NAME OF THE STUDENT: B. Pradeep Kumar

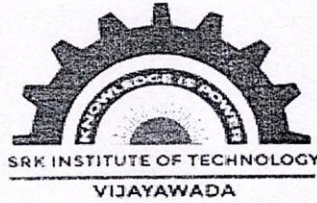
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y. V. Hand 9/12/2020  
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Edman 9/12/2020  
SIGNATURE OF HOD

M. S. S. S. S.  
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**ENIKEADU, VIJAYAWADA**



ROLL NUMBER: 19K41A1206

NAME OF THE STUDENT: B. Sai Prashanth

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

*Y. V. Hand* - 9/12/2020  
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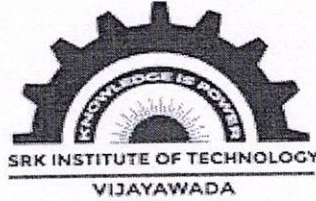
*S. Chandra* 9/12/2020  
SIGNATURE OF HOD

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ROLL NUMBER: 19X41A1207

NAME OF THE STUDENT: B. Reshma seddy

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

V. Prasad  
SIGNATURE OF EXAMINER

S. D. Maji  
10/12/2020  
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ROLL NUMBER: 19X41A1208

NAME OF THE STUDENT: Lohitha . B

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y.v-Hand

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Sudhakar  
10/12/2020

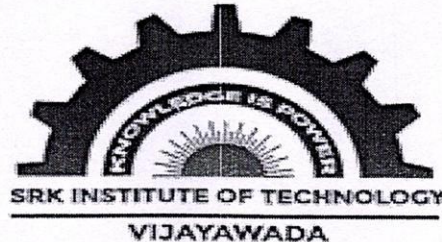
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NAME OF THE STUDENT: B. Venkateswara Rao

ROLL NUMBER: 19X41A/209

Year/ Semester: I B.Tech - II Semester

Branch: IT

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

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S. Adman 9/12/2020  
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ROLL NUMBER: 19X41A 1210

NAME OF THE STUDENT: CH. Venkata Naveen.

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Yuv Hand 9/12/2020  
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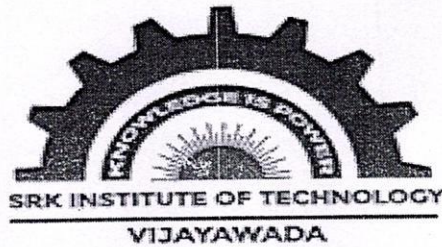
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ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: Krupa Kokila Chintha palli

ROLL NUMBER: 19X41A1211

Year/ Semester: I B.Tech - II Semester

Branch: IT

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y. V. Nandani 9/12/2020  
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S. Reddy 9/12/2020  
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**ENIKEADU, VIJAYAWADA**



ROLL NUMBER: 19X41A1212

NAME OF THE STUDENT: CHIRANJEEVI PODAPATI

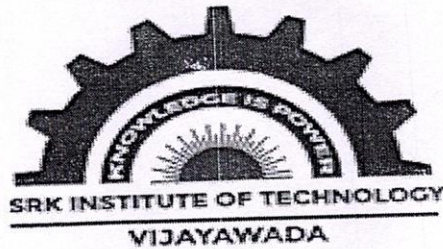
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

*Y. V. Ramesh*  
SIGNATURE OF EXAMINER

*E. Ramaprasad*  
9/12/2020  
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NAME OF THE STUDENT: CH.SP.Karthik kumar

ROLL NUMBER: 19X41A1213

Year/ Semester: I B.Tech - II Semester

Branch: IT

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y.V. Nandini 8/12/2020  
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8/12/2020  
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**NAME OF THE STUDENT:** D. Gayathri

**ROLL NUMBER:** 19X41A1215

**Year/ Semester:** I B.Tech - II Semester

**Branch:** Information Technology

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

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10/12/2020  
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ROLL NUMBER: 19X41A1216

NAME OF THE STUDENT: D. Bharath Reddy.

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

V. Nandani 9/11/2020  
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ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: D. Rakesh Reddy

ROLL NUMBER: 19X41A1217

Year/ Semester: I B.Tech - II Semester

Branch: IT

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

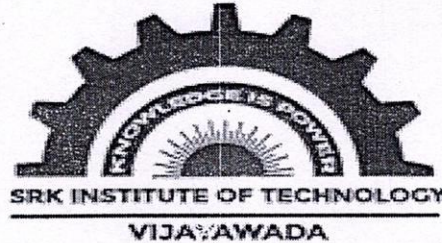
Y. V. Ravi 9/12/2020  
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E. Chandra 9/12/2020  
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Chandra  
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ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: G. Bhargavi Sai

ROLL NUMBER: 19X41A1218

Year/ Semester: I B.Tech - II Semester

Branch: Information technology

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

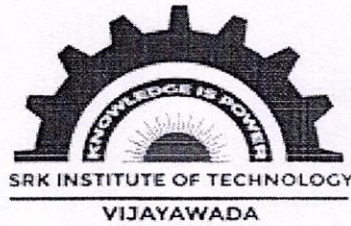
G. V. Nand... 9/12/2020  
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E. Chiranjivi  
9/12/2020  
SIGNATURE OF HOD

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**SRK INSTITUTE OF TECHNOLOGY**  
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ROLL NUMBER: G. Yogibabu

NAME OF THE STUDENT: 19XWA/219

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y. V. Nandani 9/12/2020  
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E. Adnan  
9/12/2020  
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ROLL NUMBER: 19Y41A1220

NAME OF THE STUDENT: G. Sanjay chowdary

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

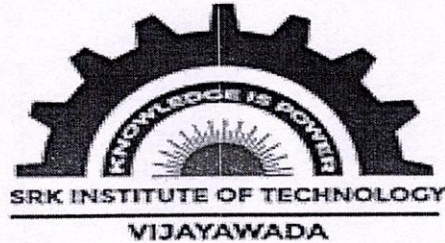
Yv-Nand 9/14/2020  
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12/12/2020  
SIGNATURE OF HOD

Chandrasekhar

SRK INSTITUTE OF TECHNOLOGY

ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: G. Lakshmi Vishnavi

ROLL NUMBER: 19X41A1221

Year/ Semester: I B.Tech - II Semester

Branch: IT

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Yu. Chand - 9/11/2020  
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S. Suman - 9/12/2020  
SIGNATURE OF HOD

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**ROLL NUMBER:** 19X41A1222

**NAME OF THE STUDENT:** J. Krishnapriya

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

*Y.v. Nand*  
**SIGNATURE OF EXAMINER**

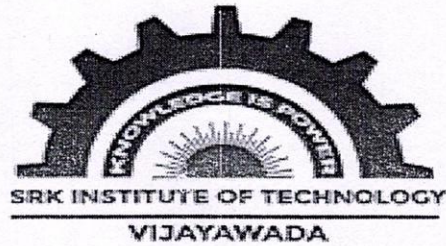
*J. Krishnapriya*  
10/12/2020  
**SIGNATURE OF HOD**

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ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: K.V.N.S. Manideep

ROLL NUMBER: 19X41A1223

Year/ Semester: I B.Tech - II Semester

Branch: IT

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y.v. Hand - 9/12/2020  
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E. Madhavi  
9/12/2020  
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M. Manideep  
PRINCIPAL

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ROLL NUMBER: 19X41A1224

NAME OF THE STUDENT: K. Jayanth Babu

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

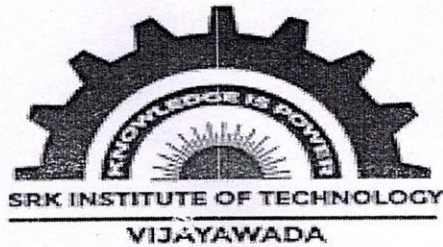
Y. V. Khandi  
SIGNATURE OF EXAMINER

S. Anand  
10/12/2020  
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M. S. Srinivasan  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 103

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NAME OF THE STUDENT: K. Sai Kumar Reddy

ROLL NUMBER: 19X41A1225

Year/ Semester: I B.Tech - II Semester

Branch: IT

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

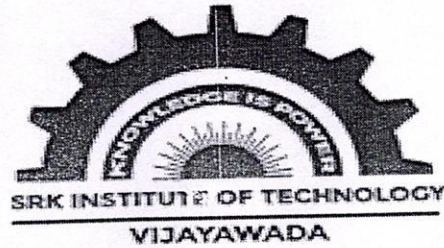
Y.V. Nandani 9/12/2020  
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S. Srinivas  
9/12/2020  
SIGNATURE OF HOD

S. Srinivas  
PRINCIPAL

SRK INSTITUTE OF TECHNOLOGY

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NAME OF THE STUDENT:     K. Rakesh    

ROLL NUMBER:     19X41A1226    

Year/ Semester: I B.Tech - II Semester

Branch:     IT    

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y. V. Nandani 9/12/2020  
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9/12/2020  
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**ROLL NUMBER:** 19X4LA1227

**NAME OF THE STUDENT:** K.N.S MOONISASAVI

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

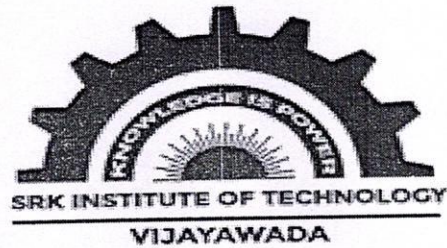
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9/12/2020  
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ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: K. mani chandana

ROLL NUMBER: 19X41A1228

Year/ Semester: I B.Tech - II Semester

Branch: Information technology.

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

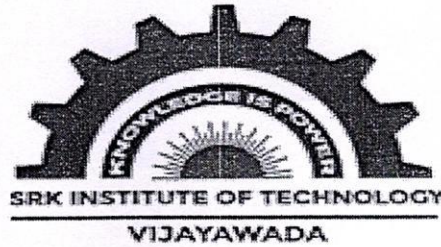
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SIGNATURE OF HOD

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ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: K. Yamini Ray

ROLL NUMBER: 19X41A1229

Year/ Semester: I B.Tech - II Semester

Branch: Information technology

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y. S. S. S. 9/12/2020  
SIGNATURE OF EXAMINER

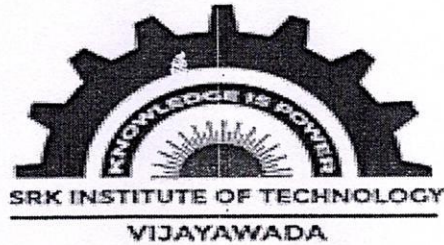
S. S. S. 9/12/2020  
SIGNATURE OF HOD

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PRINCIPAL

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NAME OF THE STUDENT: L. NANI

ROLL NUMBER: 19X41A1230

Year/ Semester: I B.Tech - II Semester

Branch: IT

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y.V. Nandani - 9/12/2020  
SIGNATURE OF EXAMINER

S. Suman  
9/12/2020  
SIGNATURE OF HOD

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SRK INSTITUTE OF TECHNOLOGY

ENIKEADU, VIJAYAWADA



ROLL NUMBER: 19XUIA1231

NAME OF THE STUDENT: M. Sai Srujan

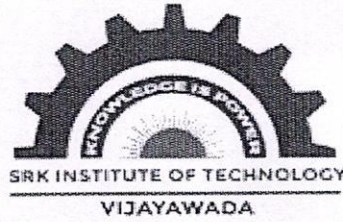
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y.V. Nand  
SIGNATURE OF EXAMINER

S. Srujan  
15/12/2020  
SIGNATURE OF HOD

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ENIKEADU, VIJAYAWADA



ROLL NUMBER: 19X41A1232

NAME OF THE STUDENT: M. Mani Krishna

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y. V. Narayana 9/12/2020  
SIGNATURE OF EXAMINER

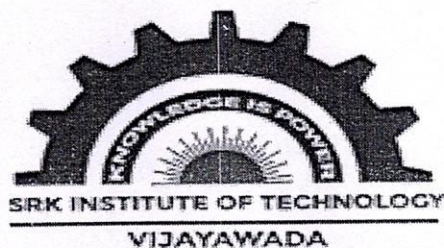
M. Mani Krishna 9/12/2020  
SIGNATURE OF HOD

[Signature]

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ENIKEPADU, VIJAYAWADA-521 108

SRK INSTITUTE OF TECHNOLOGY

ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: M. Teja Sai

ROLL NUMBER: 19X41A1233

Year/ Semester: I B.Tech - II Semester

Branch: IT

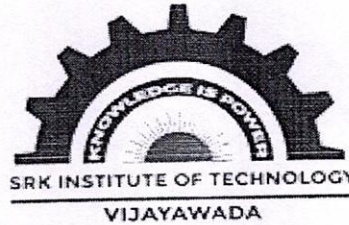
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y.v.Nandani 9/12/2020  
SIGNATURE OF EXAMINER

S. Admani 9/12/2020  
SIGNATURE OF HOD

[Signature]  
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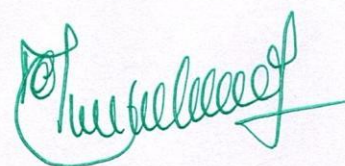
ROLL NUMBER: 19X41A1234

NAME OF THE STUDENT: N. Madhu Sudhana Reddy

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

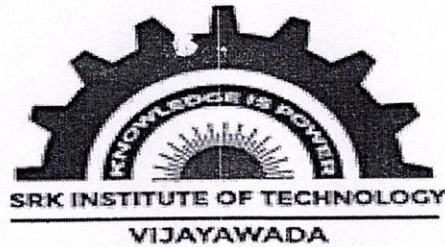
Y.V. Naidu 9/14/2020  
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Sudhakar 12/14/2020  
SIGNATURE OF HOD

  
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NAME OF THE STUDENT: N. Harish

ROLL NUMBER: 19X41A1235

Year/ Semester: I B.Tech - II Semester

Branch: Information Technology

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Yv Nand 9/12/2020  
SIGNATURE OF EXAMINER

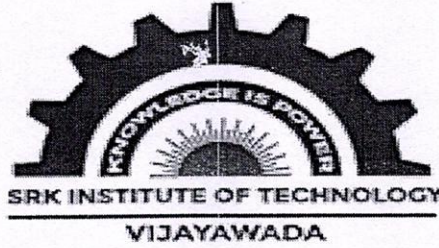
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9/12/2020  
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PRINCIPAL



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NAME OF THE STUDENT: NARISSETTY CHANDANVESH

ROLL NUMBER: 19X41A1236

Year/ Semester: **I B.Tech - II Semester**

Branch: Information Technology

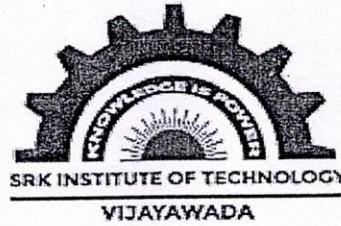
NAME OF THE LABORATORY: **ENGINEERING EXPLORATION PROJECT**

Y.V. Nandani 9/12/2020  
SIGNATURE OF EXAMINER

S. Adnan  
9/12/2020  
SIGNATURE OF HOD

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ROLL NUMBER: 19X41A1237

NAME OF THE STUDENT: Md. Naureen

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

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11/12/2020  
SIGNATURE OF EXAMINER

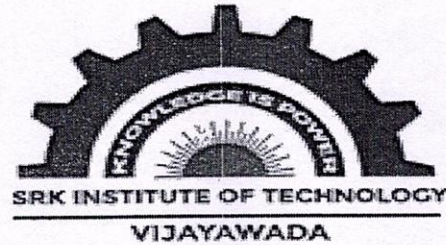
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11/12/2020  
SIGNATURE OF HOD

Munirul Haque

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ENIKEPADU, VIJAYAWADA-521 108.

SRK INSTITUTE OF TECHNOLOGY

ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: Anusha.V

ROLL NUMBER: 19X41A1238

Year/ Semester: I B.Tech - II Semester

Branch: IT

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Yr Hand - 9/14/2020  
SIGNATURE OF EXAMINER

Sedmay 9/12/2020  
SIGNATURE OF HOD

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SRK INSTITUTE OF TECHNOLOGY  
ENIKEADU, VIJAYAWADA



ROLL NUMBER: LA X41A1239

NAME OF THE STUDENT: P. Abhinav

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

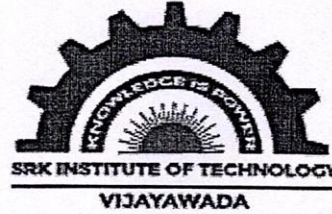
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9/12/2020  
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SRK INSTITUTE OF TECHNOLOGY

ENIKEADU, VIJAYAWADA



ROLL NUMBER: 19X41A1240

NAME OF THE STUDENT: P. Geethika Aakanksha

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

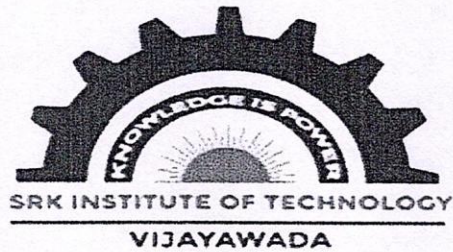
Y. N. Nandini 9/12/2020  
SIGNATURE OF EXAMINER

S. S. S. S. S. 9/12/2020  
SIGNATURE OF HOD

[Handwritten Signature]

**SRK INSTITUTE OF TECHNOLOGY**

**ENIKEADU, VIJAYAWADA**



**NAME OF THE STUDENT:** p. Syam Vayun Babu

**ROLL NUMBER:** 19X41A1241

**Year/ Semester:** I B.Tech - II Semester

**Branch:** IT

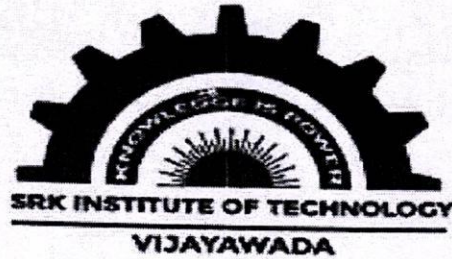
**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

*M. V. Nandani* 9/12/2020  
**SIGNATURE OF EXAMINER**

*S. Srinivas* 9/12/2020  
**SIGNATURE OF HOD**

*[Signature]*  
**PRINCIPAL**

**SRK INSTITUTE OF TECHNOLOGY**  
**ENIKEADU, VIJAYAWADA**



**NAME OF THE STUDENT:** P. Kesava Vamsi Krishna

**ROLL NUMBER:** 19X41A1949

**Year/ Semester:** I B.Tech - II Semester

**Branch:** IT

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

Y. v. Nadi 9/12/2020  
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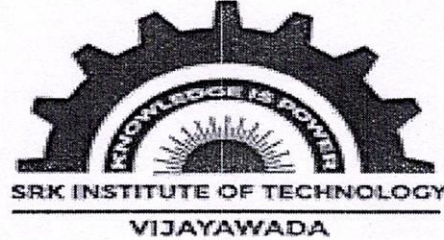
Sedmani  
9/12/2020  
**SIGNATURE OF HOD**

Chakraborty  
**PRINCIPAL**

**SRK Institute of Technology**  
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NAME OF THE STUDENT: Y. Darshitha chowdary

ROLL NUMBER: 19XU1A1243

Year/ Semester: I B.Tech - II Semester

Branch: IT

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y. V. Hand - 9/12/2020  
SIGNATURE OF EXAMINER

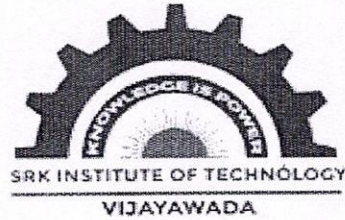
S. S. Mani  
9/12/2020  
SIGNATURE OF HOD

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ROLL NUMBER: 19X41A1244

NAME OF THE STUDENT: Polareddy Harshitha Reddy

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

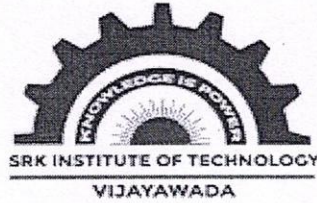
V.V. Nandani  
SIGNATURE OF EXAMINER

Sudhakar  
9/12/2020  
SIGNATURE OF HOD

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**ENIKEADU, VIJAYAWADA**



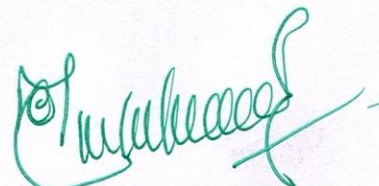
ROLL NUMBER: 19X41A1245

NAME OF THE STUDENT: R. Geethika

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

M. V. Nandini 9/12/2020  
SIGNATURE OF EXAMINER

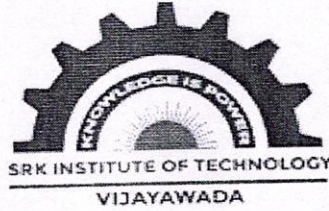
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SIGNATURE OF HOD



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ROLL NUMBER: 19X41A1246

NAME OF THE STUDENT: Sai Tejasri G. Shah

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y.V. Nandani - 9/12/2020  
SIGNATURE OF EXAMINER

S. Chandra 9/12/2020  
SIGNATURE OF HOD

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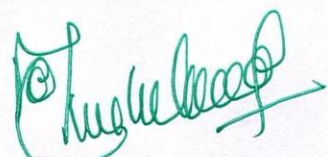
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NAME OF THE STUDENT: S. Preetham Gopi

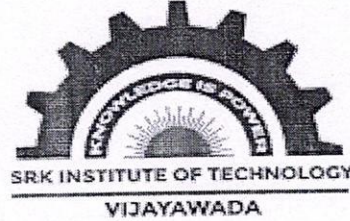
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y.V. Nandani 9/12/2020  
SIGNATURE OF EXAMINER

Sudhakar  
9/12/2020  
SIGNATURE OF HOD

  
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**ENIKEADU, VIJAYAWADA**



ROLL NUMBER: 19X41A1248

NAME OF THE STUDENT: P. Satya Prathyusha

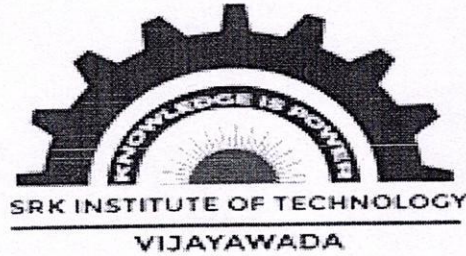
NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT.

Y.V. Chand  
SIGNATURE OF EXAMINER

Radman  
9/12/2020  
SIGNATURE OF HOD

Ch. Subbaraj  
PRINCIPAL  
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ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: SK. Sameer J.

ROLL NUMBER: 19XL1A1249.

Year/ Semester: I B.Tech - II Semester

Branch: IT.

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y.V. Nandini 9/12/2020  
SIGNATURE OF EXAMINER

Redman  
9/12/2020  
SIGNATURE OF HOD

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ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: S. Lahari

ROLL NUMBER: 19XU1A1250

Year/ Semester: I B.Tech - II Semester

Branch: IT

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

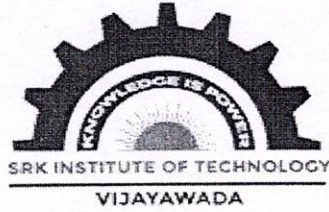
Y.v. Khandi 9/14/2020  
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S. Kumar 9/12/2020  
SIGNATURE OF HOD

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ENIKEADU, VIJAYAWADA



ROLL NUMBER: 19X4101251

NAME OF THE STUDENT: T. Ayyappa

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y. V. Nandani 9/12/2020  
SIGNATURE OF EXAMINER

T. Ayyappa  
9/12/2020  
SIGNATURE OF HOD

T. Ayyappa



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ROLL NUMBER: 19XG1A1252

NAME OF THE STUDENT: Thota Uma Sahithi

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

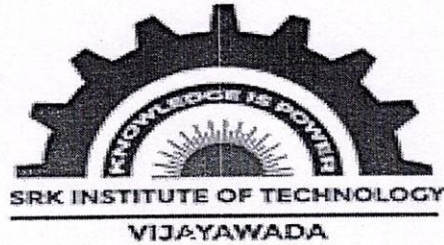
Y.v. Nand - 9/12/2020  
SIGNATURE OF EXAMINER

Redmaji 9/12/2020  
SIGNATURE OF HOD

Murali

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**ENIKEADU, VIJAYAWADA**



**NAME OF THE STUDENT:** Divya Tirumala Setti.

**ROLL NUMBER:** 19X41A1253

**Year/ Semester:** I B.Tech - II Semester

**Branch:** IT

**NAME OF THE LABORATORY:** ENGINEERING EXPLORATION PROJECT

V. Chand - 9/12/2020  
**SIGNATURE OF EXAMINER**

Sadmayi  
9/12/2020  
**SIGNATURE OF HOD**

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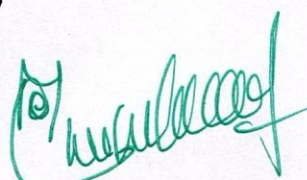
ROLL NUMBER: 19X41A1254

NAME OF THE STUDENT: U Harsha Varshan

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y.V. Nandani 9/12/2020  
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Bedmari 10/12/2020  
SIGNATURE OF HOD

  
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ENIKEADU, VIJAYAWADA



ROLL NUMBER: Asavind babu

NAME OF THE STUDENT: LAXU1A1255

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

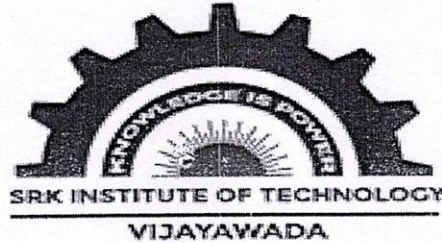
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SIGNATURE OF EXAMINER

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9/12/2020  
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ENIKEADU, VIJAYAWADA



NAME OF THE STUDENT: V. H. L. Bhavani

ROLL NUMBER: 19X41A1256

Year/ Semester: I B.Tech - II Semester

Branch: Information technology.

NAME OF THE LABORATORY: ENGINEERING EXPLORATION PROJECT

Y. V. Nand 9/12/2020  
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SIGNATURE OF HOD

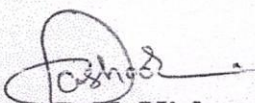
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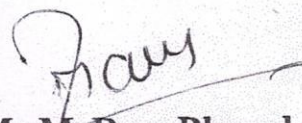
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**ENIKEPADU, VIJAYAWADA**  
**DEPARTMENT OF INFORMATION TECHNOLOGY**



**BONAFIED CERTIFICATE**

This is to certify that the project entitled "INFORMATION TRANSMISSION USING IMAGE THROUGH STEGANOGRAPHY TECHNIQUES" is the bonafied work of Mr. K. Mahendra Rama Chaitanya (16X41A1225), Mr. G. Mahesh (16X41A1215), Ms. Ch. Divya Latha Reddy (16X41A1206), Ms. P. Divya (16X41A1237) who carried out the work under my supervision and submitted in partial fulfilment of the requirements for the award of the degree, **BACHELOR OF TECHNOLOGY** in Information Technology to JNTU Kakinada. This Project was done during the year 2019-2020.

  
**Mr G.D.K. Kishore**  
(Project Guide)

  
**Mr M. Ram Bhupal**  
(Head of the Department)

  
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**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

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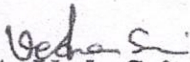
ENIKEPADU, VIJAYAWADA

DEPARTMENT OF INFORMATION TECHNOLOGY

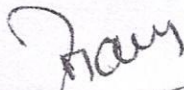


## BONAFIED CERTIFICATE

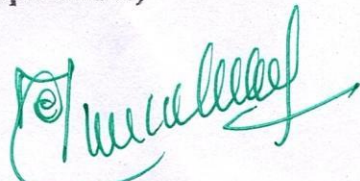
This is to certify that the project entitled "Data Security by Hashing" is the bonafied work of Ms. R.Srividya(16X41A1239), Ms.T.Snehita (16X41A1246), Mr.M.Venkateswara Rao (16X41A1230), Mr.G.Pavan Kumar (16X41A1216) who carried out the work under my supervision and submitted in partial fulfillment of the requirements for the award of the degree, **BACHELOR OF TECHNOLOGY** in Information Technology to JNTU Kakinada. This Project was done during the year 2019-2020.

  
A. Veda Sri

(Project Guide)

  
M.RAM BHUPAL

(Head of the Department)



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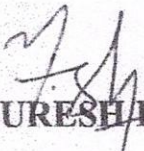
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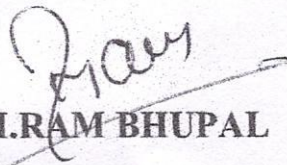
DEPARTMENT OF INFORMATION TECHNOLOGY

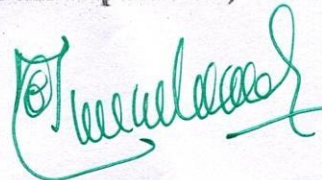


## BONAFIED CERTIFICATE

This is to certify that the project entitled "SELF IMMOLATION DETECTION" is the bonafied work of Ms.D.Monica (16X41A1209), Ms.M.Jyothirmai (16X41A1228), Ms.M.Bhavya (16X41A1233), Mr.D.Prudhvi (16X41A1208) who carried out the work under my supervision and submitted in partial fulfillment of the requirements for the award of the degree, **BACHELOR OF TECHNOLOGY** in Information Technology to JNTU Kakinada. This Project was done during the year 2019-2020.

  
**M.SURESH BABU**  
(Project Guide)

  
**M.RAM BHUPAL**  
(Head of the Department)

  
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**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**



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DEPARTMENT OF INFORMATION TECHNOLOGY



## BONAFIED CERTIFICATE

This is to certify that the project entitled "Driver Torpidity Detection System" is the bonafied work of Ms. K.V.N.S.Sowmya (16X41A1226), Mr. B. Hanumantha Rao (16X41A1205), Mr. J. Murali Krishna (16X41A1218), Ms. M. Sravani (16X41A1229) who carried out the work under my supervision and submitted in partial fulfillment of the requirements for the award of the degree, **BACHELOR OF TECHNOLOGY** in Information Technology to JNTU Kakinada. This Project was done during the year 2019-2020.

*Lakshmi*  
Mrs. G. Sri Lakshmi  
(Project Guide)

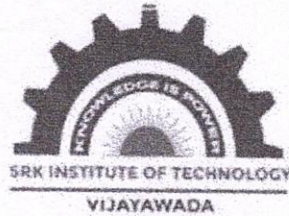
*Ram*  
Mr. M.RAM BHUPAL  
(Head of the Department)

*[Signature]*  
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SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

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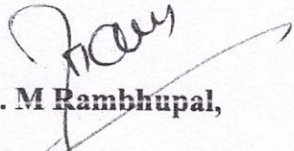
**ENIKEPADU, VIKAYAWADA - 521 108**

**ANDHRA PRADESH, INDIA.**

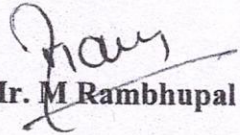


**CERTIFICATE**

This is to certify that the Dissertation titled “**AUTOMATIC ATTENDANCE SYSTEM BY FACE RECOGNITION**” is submitted by RP.JYOTHSINGH (16X41A1220), R.SOUMYA (16X41A1240), G.JAYATHRI (16X41A1212), B.DINESH BABU (16X41A1210) Students of B.Tech (IT), in partial fulfilment of the requirements for the award of the degree of **Bachelor Of Technology in Information Technology** is a record of bonafide work carried out by them under my supervision.

  
**Mr. M Rambhupal,**

Internal Guide

  
**Mr. M Rambhupal**

Head Of The Department



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DEPARTMENT OF INFORMATION TECHNOLOGY



## BONAFIED CERTIFICATE

This is to certify that the project entitled " OBJECT CLASSIFICATION USING DEEP LEARNING TECHNOLOGY" is the bonafied work of Mr.T. Bala Kamal Teja (16X41A1247), Ms. M. Neeharika (16X41A1231), Ms. P.Bharathi (16X41A1238), Mr. A. Gana Hanu Manideep (16X41A1204) who carried out the work under my supervision and submitted in partial fulfillment of the requirements for the award of the degree, **BACHELOR OF TECHNOLOGY** in Information Technology to JNTU Kakinada. This Project was done during the year 2019-2020.

**Mr G.D.K Kishore**

(Project Guide)

**Mr M. Ram Bhupal**

(Head of the Department)

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(Approved by AICTE, Affiliated to JNTU Kakinada)  
**ENIKEPADU, VIJAYAWADA**  
**DEPARTMENT OF INFORMATION TECHNOLOGY**



**BONAFIED CERTIFICATE**

This is to certify that the project entitled "**Gender and Age Identification using Neural Network**" is the bonafied work of Ms. V.Rashmith (16X41A1249), Mr. Ch.Venkata Krishna Rohit (16X41A1207), Mr. G.Anvesh (16X41A1214), Ms. A. Ramya (16X41A1202) who carried out the work under my supervision and submitted in partial fulfillment of the requirements for the award of the degree, **BACHELOR OF TECHNOLOGY** in Information Technology to JNTU Kakinada. This Project was done during the year 2019-2020.

**Mr.G.D.K.Kishore**

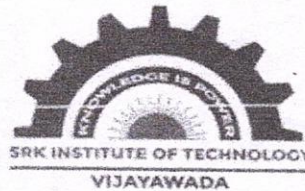
(Project Guide)

**Mr. M.RAM BHUPAL**

(Head of the Department)

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108,

**SRK INSTITUTE OF TECHNOLOGY**  
(Approved by AICTE, Affiliated to JNTU Kakinada)  
**ENIKEPADU, VIJAYAWADA**  
**DEPARTMENT OF INFORMATION TECHNOLOGY**



**BONAFIED CERTIFICATE**

This is to certify that the project entitled " **Hand Gesture Recognition using Deep learning** " is the bonafied work of **Mr. A. Umadevi (16X41A1201), Ms. Syed Sameer (16X41A1245), Ms. S. Karun Kumar (16X41A1244), Mr. K. Triveni (16X41A1224)** who carried out the work under my supervision and submitted in partial fulfillment of the requirements for the award of the degree, **BACHELOR OF TECHNOLOGY** in Information Technology to JNTU Kakinada. This Project was done during the year 2019-2020.

*Lakshmi*  
**Mr.G. Sri Lakshmi**  
(Project Guide)

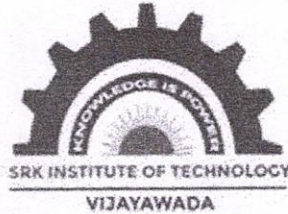
*M. Ram Bhupal*  
**M.RAM BHUPAL**  
(Head of the Department)

*[Signature]*  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

DEPARTMENT OF INFORMATION TECHNOLOGY  
**SRK INSTITUTE OF TECHNOLOGY**

ENIKEPADU, VIKAYAWADA - 521 108

ANDHRA PRADESH, INDIA



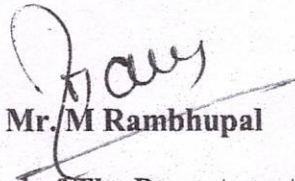
**CERTIFICATE**

This is to certify that the Dissertation titled "SPEECH EMOTION RECOGNITION" is submitted by HUSNEARA(16X41A1217), G VANAJA (16X41A1213), K HARIKA (16X41A1223), M ABHISHEK (16X41A1232), S LIKHITH (16X41A1241)

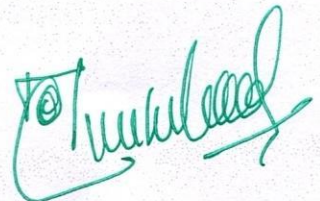
Students of B. Tech (IT), in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Information Technology is a record of bonafide work carried out by them under my supervision.

  
Mrs. AMRITHA MISHRA

Internal Guide

  
Mr. M Rambhupal

Head of The Department



PRINCIPAL

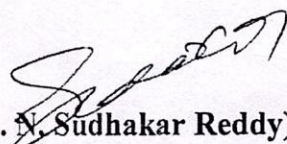
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

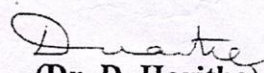
**S.R.K INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER APPLICATIONS**

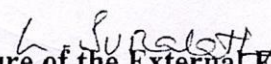


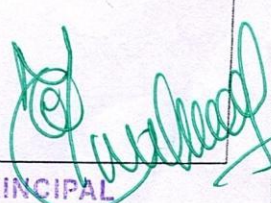
**CERTIFICATE**

This is to certify that the project report entitled "FACE RECOGNITION BASED ATTENDANCE SYSTEM" submitted by Amritha Mishra in partial fulfillment of the requirements for the award of the Degree of Master of Computer science in Department of COMPUTER OF TECHNOLOGY IN SCIENCE AND ENGINEERING, SRK INSTITUTE OF TECHNOLOGY, Enikepadu, Vijayawada is a bonafide record of work carried out by him under my guidance and supervision during the year 2018-2019.

  
(Mr. N. Sudhakar Reddy)  
*Signature of the Guide*

  
(Dr. D. Haritha)  
*Signature of the HOD*

  
*Signature of the External Examiner*

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

**S.R.K INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF MASTER OF TECHNOLOGY**  
**IN**  
**COMPUTER SCIENCE AND ENGINEERING**



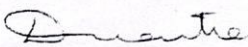
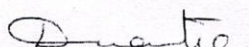
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**CERTIFICATE**

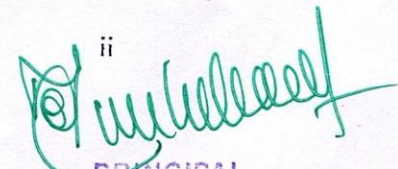
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This is to certify that this project report entitled "Smart Career Guidance and Recommendation System" being submitted by **D.Lakshmi Prasanna(17X41D5802)** in partial fulfilment for the award of the Degree of **Master of Technology In Computer Science and Engineering** to the **Jawaharlal Nehru Technological University** is a bonafide work carried out by her under my guidance and supervision.

The result is embodied in the project report have not been submitted to any other University or Institution for the award of any Degree or Diploma.

	
<b>Signature of Guide</b> <b>Dr.D.HARITHA</b> <b>Professor</b>	<b>Signature of HOD</b> <b>Dr.D.HARITHA</b> <b>Department of CSE</b>

  
Signature of the External Examiner

ii  
  
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SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.



**S.R.K INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF MASTER OF TECHNOLOGY**  
**IN**  
**COMPUTER SCIENCE AND ENGINEERING**



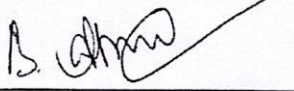
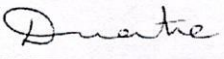
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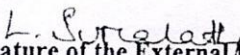
**CERTIFICATE**

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This is to certify that this project report entitled "Fraud Detection For Insurance Companies" being submitted by **Kavali Rajeswari(17X41D5803)** in partial fulfillment for the award of the Degree of **Master of Technology In Computer Science and Engineering** to the **Jawaharlal Nehru Technological University** is a bonafide work carried out by her under my guidance and supervision.

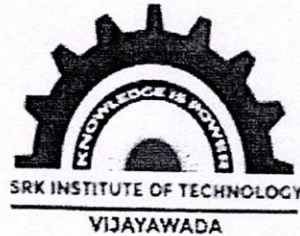
The result is embodied in the project report have not been submitted to any other University or Institution for the award of any Degree or Diploma.

	
<b>Signature of Guide</b> <b>B. ASHA LATHA</b> <b>Sr. Assistant Professor</b>	<b>Signature of HOD</b> <b>Dr. D. HARITHA</b> <b>Department of CSE</b>

  
**Signature of the External Examiner**

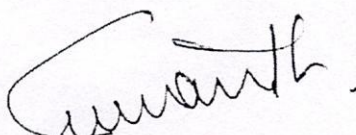
  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

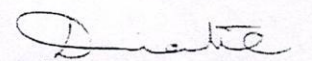
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DEPARTMENT OF COMPUTER SCIENCE

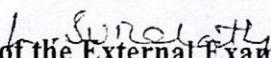


CERTIFICATE

This is to certify that this project report entitled "FAKE NEWS DETECTION ON SOCIAL MEDIA USING MACHINE LEARNING" is the bonafide work of Miss. P RATNA PRIYANKA in partial fulfillment of the requirements for the award of the post-graduate degree in Department of MASTER OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING during the academic year 2018-2019. This Work has carried out under our supervision and guidance.

  
(M.V. SUMANTH)  
*Signature of the Guide*

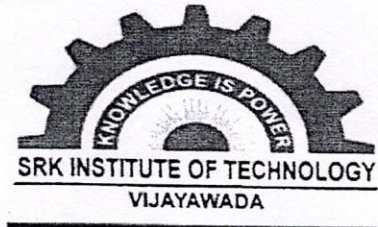
  
(Dr. D. HARITHA)  
*Signature of the HOD*

  
Signature of the External Examiner

  
PRINCIPAL

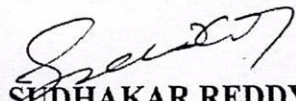
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

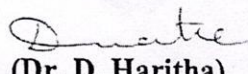
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DEPARTMENT OF COMPUTER SCIENCE**




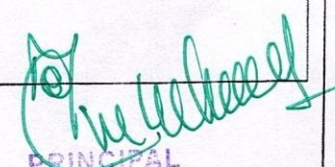
**CERTIFICATE**

This is to certify that this project report entitled "MALARIA PARASTTE DETECTION ON THIN BLOOD SMEARS USING CONVOLUTIONAL NEURAL NETWORKS" is the bonafide work of Miss P.SUDHA RANI in partial fulfillment of the requirements for the award of the Post-Graduate Degree in Department of MASTER OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING during the academic year 2018-19. This work carried out by her under our supervision and guidance.

  
(Mr. N. SUDHAKAR REDDY)  
*Signature of the Guide*

  
(Dr. D. Haritha)  
*Signature of the HOD*

  
Signature of the External Examiner

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108

## CERTIFICATE

This is to certify that the project report entitled "LINEAR SOFT COMBINATION OF COOPERATIVE SPECTRUM SENSING IN COGNITIVE RADIO NETWORKS OVER NAKAGAMI-M FADING CHANNEL" is a bonafide record of work carried out by N.KALAVATHI (17X41D7001) under my guidance and supervision for the partial fulfillment of the requirement of award of degree of Master of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada.

*S-Sri Gowri*  
Dr.S.Sri Gowri

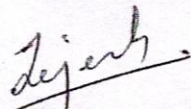
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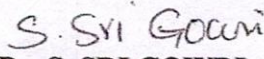
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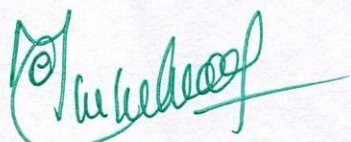
PRINCIPAL  
SRK INSTITUTE OF TECHNOLOGY  
ENIKEPADU, VIJAYAWADA

## CERTIFICATE

This is to certify that the seminar report entitled "A SMART WAREHOUSE INVENTORY MANAGEMENT AND MONITORING SYSTEM USING IOT AND OPEN SOURCE TECHNOLOGY" is a bonafide record of work carried out by CH.N.S.KAMESWARI (18X41D7001) under my guidance and supervision in partial fulfillment of the requirements for award of the degree of Master of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada.**

  
**Mr. B.S.S. TEJESH**  
(Project Guide)

  
**Dr. S. SRI GOWRI**  
(Head of the Department)

  
PRINCIPAL  
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

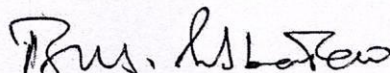


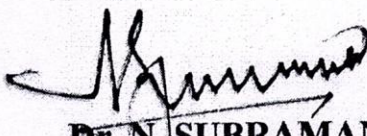
**S.R.K. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF BUSINESS ADMINISTRATION**  
(An ISO 9001-2015 Certified Institution, Approved by AICTE, Affiliated to JNTU -K)  
Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “A STUDY ON RECRUITMENT & SELECTION with reference to SUDERSHAN BIOTECH LIMITED HYDERABAD” is a bonafide work done by **G. PARVATHI** Registered No. **18X41E0011** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

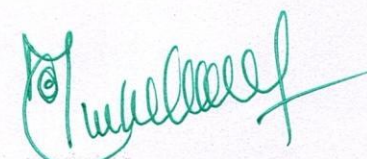
**B. KRISHNAIAH, MBA, (Ph. D),**  
**Asst.Professor & Project Guide**

  
**B.V.S.S. Subba Rao, M.Com,MBA,(Ph.D)**  
**Project Review Committee**

  
**Dr. N. SUBRAMANYAM**  
**Professor & Head**

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINE**

  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**



# S.R.K. INSTITUTE OF TECHNOLOGY

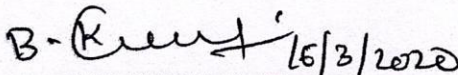
## DEPARTMENT OF BUSINESS ADMINISTRATION

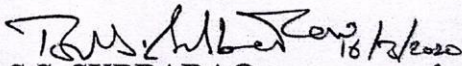
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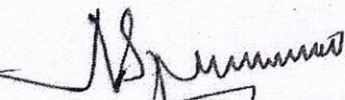
Enikepadu, Vijayawada - 521 108

### CERTIFICATE


This is to certify that the project entitled "A STUDY ON PERFORMANCE APPRAISAL" With reference to "PANTALOONS" is a bonafide work done by G. LOKESH Registered No. 18X41E0013 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
15/3/2020  
**Mr. B. KRISHNAIAH, MBA, (PH.D.)**  
Asst. Professor & Project Guide

  
18/3/2020  
**B.V.S.S. SUBBARAO, (M.Com, MBA, (Ph.D))**  
Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

  
**PRINCIPAL**  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.



**S.R.K. INSTITUTE OF TECHNOLOGY**  
DEPARTMENT OF BUSINESS ADMINISTRATION  
(An ISO 9001-2015 Certified Institution, Approved by AICTE, Affiliated to JNTU -K)  
Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the project entitled “A STUDY ON FUNDS FLOW STATEMENT With reference to The Krishna District Milk Producers Mutually Aided Cooperative Union Ltd, Vijayawada” is a bonafide work done by **K VIDYA SAGAR** Registered No. **18X41E0021** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

**B. KRISHNAIAH, MBA, (Ph.D),**  
Assistant Professor & Project Guide

**B.V.S.S. SUBBA RAO, M.Com, MBA, (Ph.D)**  
Project Review Committee

**Dr. N. SUBRAMANYAM**

**Professor & Head**

Professor & Head  
Department of Business Administration  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**





**S.R.K. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF BUSINESS ADMINISTRATION**  
(An ISO 9001-2015 Certified Institution, Approved by AICTE, Affiliated to JNTU -K)  
Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “A STUDY ON WORKING CAPITAL With reference to Andhra Hospitals (VIJAYAWADA) Pvt. Ltd.” is a bonafide work done by **K. PUSHPA LATHA** Registered No. **18X41E0025** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

*B. Krishnaiah* 16/3/2020

**Mr. B. KRISHNAIAH, MBA., (Ph.D.).**  
Asst. Professor & Project Guide

*B.V.S.S. Subbarao* 16/3/2020

**B.V.S.S. SUBBARAO, (M.Com, MBA, Ph.D.)**  
Project Review Committee

*Dr. N. Subramanyam*

**Dr. N. SUBRAMANYAM**

Professor & Head  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

*Principal*

**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**



# S.R.K. INSTITUTE OF TECHNOLOGY

DEPARTMENT OF BUSINESS ADMINISTRATION

(An ISO 9001-2008 Certified Institution, Approved by AICTE, Affiliated to JNTU -K)

Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the Main project entitled “A STUDY ON TRAINING AND DEVELOPMENT With reference to the PANTALOONS FASHION AND RETAIL” Vijayawada is a bonafide work done by **M.K.S.Sandeep** Registered No. **18X41E0028** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** (admitted batch of 2018-20) in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Master of Business Administration

**Mr. B.KRISHNAIAH, MBA(Ph.D)**

**Asst.Professor & Project Guide**

**Mr. B.V.S.S.SUBBA RAO M.com,MBA,(Ph.D)**

**Project Review Committee**

**External Examiner**

**Dr. N. SUBRAMANYAM**

**Professor & Head of Department**

**Professor & Head**  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

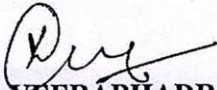
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**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

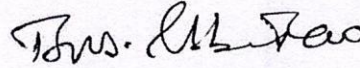
**SRK INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF BUSINESSADMINISTATION**  
(An ISO 9001-2015 Certified Institution, Approved by AICTE )

## CERTIFICATE

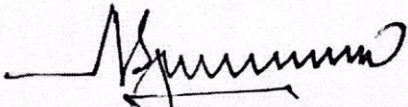
This is to certify that the project work entitled "CAPITAL BUDGETING" with reference to "SOUTH CENTRAL RAILWAYS, VIJAYAWADA" submitted by **MAGULURI SNEHITHA** is partial fulfillment for the award of M.B.A degree is a bonafied work carried out by her. Requirment for the award of degree of master of business administration in **S.R.K.Institute of Technology**, Enceladus, Vijayawada, affiliated.to Jawaharlal Nehru Technological University, Kakinada. This work is original.



**DR. M. VEERABHADRA RAO**, M.Com, M.B.A, Ph.D,  
Professor and Project Guide



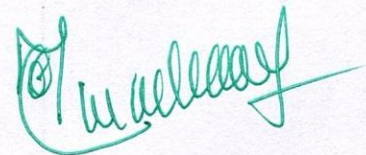
**B.V.S.S.SUBBA RAO**, M.Com,M.B.A(Ph.D)  
Project Review Committee



**Dr. N. SUBRAMANYAM**

Professor & Head,  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**



**PRINCIPAL**  
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.

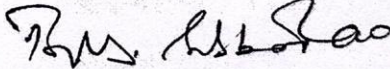


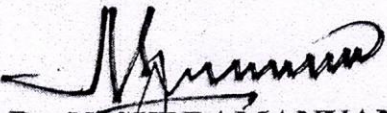
**S.R.K. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF BUSINESS ADMINISTRATION**  
(An ISO 9001-2015 Certified Institution, Approved by AICTE, Affiliated to JNTU -K)  
Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled **“A STUDY ON CAPITAL BUDGETING With reference to TULASI SEEDS PVT LTD GUNTUR”** is a bonafide work done by **MYNENI PAVAN KUMAR** Registered No. **18X41E0032** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

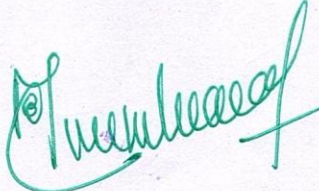
**Mr. B. KRISHNAIAH, ,MBA(Ph.D)**  
**Asst. Professor & Project Guide**

  
**B.V.S.S. SUBBA RAO, M.Com,MBA,(Ph.D)**  
**Project Review Committee**

  
**Dr. N. SUBRAMANYAM**  
**Professor & Head**

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINE**

  
**PRINCIPAL**  
**SRK Institute of Technology**  
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## DEPARTMENT OF BUSINESS ADMINISTRATION

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Enikepadu, Vijayawada – 521 108

### CERTIFICATE

This is to certify that the project entitled “A COMPARATIVE STUDY ON IPO OF SELECTED COMPANIES WITH REFERENCE TO NSE” With reference to “ANGEL BROKING PVT. LTD” is a bonafide work done by **R. SAHITHI** Registered No. 18X41E0037 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

B. Krishnaiah 16/3/2020

**Mr. B. KRISHNAIAH, MBA(Ph.D).**  
**Asst. Professor & Project Guide**

B.V.S.S. Subbarao 16/3/2020

**B.V.S.S. SUBBARAO, (M.Com, MBA,(Ph.D)**  
**Project Review Committee**

**Dr. N. SUBRAMANYAM**

**Professor & Head**  
**Professor & Head**

**Department of Business Administration,**  
**SRK Institute of Technology,**  
**Affiliated to JNTU Kakinada**  
**ENIKEPADU, VIJAYAWADA-521 108.**

**EXTERNAL EXAMINER**

**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**



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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “**A STUDY ON EMPLOYEE WELFARE MEASUREMENT**” with reference to **KESORAM CEMENT TELANGANA** is a bonafide work done by **SAYYED YUNUS** Registered No. **18X41E0040** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

**Mr. B. KRISHNAIAH (Ph.D)**

**Asst. Professor & Project Guide**

**B.V.S.S. SubbaRao M.com, MBA,(Ph.D)**

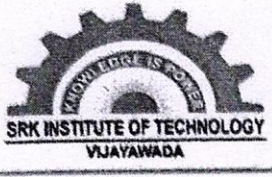
**Project Review Committe**

**Dr. N. SUBRAMANYAM**  
**Professor & Head**

**Professor & Head**  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

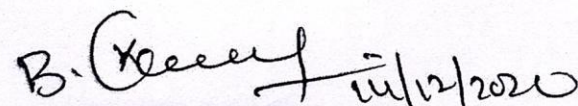
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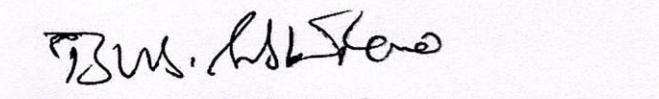
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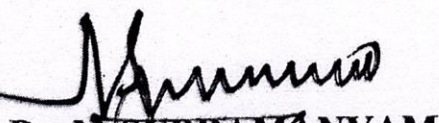
This is to certify that the project entitled “**TRAINING AND DEVELOPMENT**” With reference to **INCAP Ltd, Vijayawada**” is a bonafide work done by **V. SAI ANU LIKHITA** Registered No. **18X41E0052** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
**B. KRISHNAIAH, MBA, (Ph.D)**

Assistant Professor

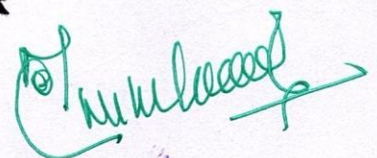
  
**B.V.S.S. SUBBA RAO, M.Com, MBA, (Ph.D)**

Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head

Professor & Head  
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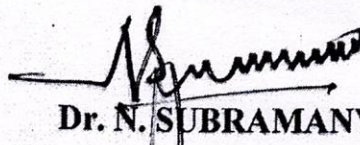
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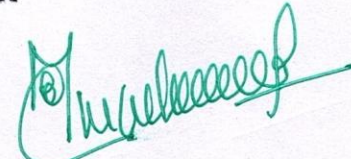
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**B. KRISHNAIAH M.B.A (PH. D)**  
Assistant Professor & Project Guide

  
**B.V.S.S. SUBBA RAO, MBA (Ph.D)**  
Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head  
Professor & Head  
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ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

  
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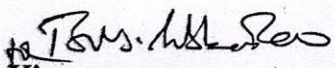


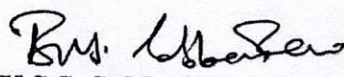


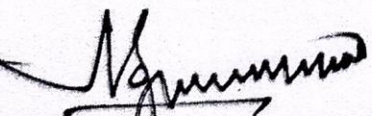
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Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE MOTIVATION" With reference to "KCP SUGAR & INDUSTRIES CORP LTD" is a bonafide work done by A.RAVI Registered No. 18X41E0002 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.


  
**G. Kiran, M.Com, MBA,**  
**ASST Professor & Project Guide**

  
**B.V.S.S. Subba Rao, M.Com, MBA, (Ph.D)**  
**Project Review Committee**

  
**Dr. N. SUBRAMANYAM**  
**Professor & Head**

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

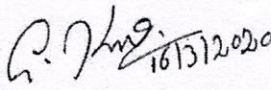
  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

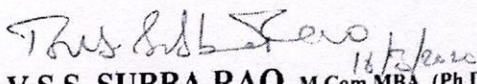


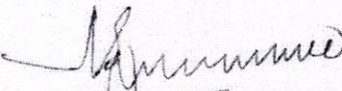
**S.R.K. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF BUSINESS ADMINISTRATION**  
(An ISO 9001-2015 Certified Institution, Approved by AICTE, Affiliated to JNTU -K)  
Enikepadu, Vijayawada - 521 108

**CERTIFICATE**

This is to certify that the project entitled "A STUDY ON INVENTORY MANAGEMENT With reference to RAGHURAM HUME PIPES PVT. LTD.," is a bonafide work done by **B. LAKSHMAN KUMAR** Registered No. 18X41E0004 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
**G. KIRAN, M.Com, MBA.**  
Professor & Project Guide

  
**B.V.S.S. SUBBA RAO, M.Com, MBA, (Ph.D)**  
Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

  
**PRINCIPAL**  
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.



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**DEPARTMENT OF BUSINESS ADMINISTRATION**  
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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “**A STUDY ON EMPLOYEE JOB SATISFACTION**” With reference to **HETERO DRUGS LIMITED, HYDERABAD**” is a bonafide work done by **B. SOWJANYA** Registered No. **18X41E0007** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

**G. KIRAN, M.Com, MBA,**

**Assistant Professor**

**B.V.S.S. Subba Rao, M.Com, MBA, (Ph.D)**

**Project Review Committee**

**Dr. N. SUBRAMANYAM**

**Professor & Head**

**Professor & Head**

**Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.**

**EXTERNAL EXAMINER**

**PRINCIPAL**

**SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.**



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DEPARTMENT OF BUSINESS ADMINISTRATION

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Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the project entitled “A COMPARATIVE STUDY ON PERFORMANCE OF LUMP SUM INVESTMENTS VS SIP INVESTMENTS”

With reference to “ANGEL BROKING PVT. LTD” is a bonafide work done by G. VENKATA PRASANNA Registered No. 18X41E0014 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of Master of Business Administration in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

Mr. G. KIRAN, MBA, M.Com.

Asst. Professor & Project Guide

B.V.S.S. SUBBARAO, (M.Com, MBA, Ph.D)

Project Review Committee

Dr. N. SUBRAMANYAM

Professor & Head  
Professor & Head

Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

EXTERNAL EXAMINER

PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.



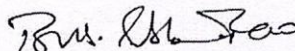
**S.R.K. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF BUSINESS ADMINISTRATION**  
(An ISO 9001-2008 Certified Institution, Approved by AICTE, Affiliated to JNTU -K)  
Enikepadu, Vijayawada – 521 108

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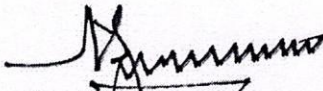
This is to certify that the project entitled “A STUDY ON ORGANISATIONAL DEVELOPMENT” WITH REFERENCE TO COROMANDEL AGRO PRODUCTS AND OILS LTD., is a bonafide work done by KAVYA.P Registered No. 18X41E0022 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of MASTER OF BUSINESS ADMINISTRATION in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Master of Business Administration.

  
Mr. G. KIRAN

Asst. Professor & Project Guide

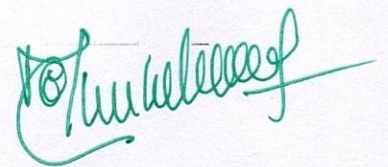
  
Mr. B. V. S. S. SUBBA RAO

Project Review Committee

  
Dr. N. Subramanyam  
Professor & Head

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

External Examiner



PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.



**S.R.K. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF BUSINESS ADMINISTRATION**  
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Enikepadu, Vijayawada – 521 108

### CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE EMPOWERMENT "With reference to" G.S. ALLOY CASTINGS Ltd, Vijayawada" is a bonafide work done by SkIsmail Registered No. 18X41E0041 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

**G. Kiran, M.Com, MBA,**  
**Asst. Professor & Project Guide**

**B.V.S.S. Subba Rao, M.Com, MBA, (Ph.D)**  
**Project Review Committee**

**Dr. N. SUBRAMANYAM**  
**Professor & Head**

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

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**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**



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Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the project entitled “A STUDY ON FUNDS FLOW STATEMENT” With reference to **G.S. ALLOY CASTINGS Ltd, VIJAYAWADA**” is a bonafide work done by **SK. RAHIMUNNISA** Registered No. **18X41E0043** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

**G. KIRAN, M.Com, MBA**  
Assistant Professor

**B.V.S.S. SUBBA RAO, M.Com, MBA, (Ph.D)**  
Project Review Committee

**Dr. N. SUBRAMANYAM**  
Professor & Head

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

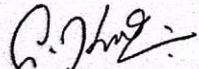
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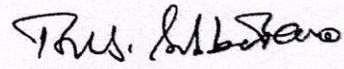


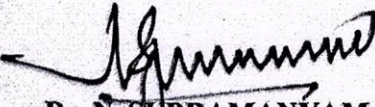
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Enikepadu, Vijayawada – 521 108

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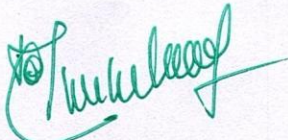
This is to certify that the project entitled “A STUDY ON QUALITY OF WORK LIFE With reference to HETERO DRUGS Ltd, Hyderabad” is a bonafide work done by **V. SRI PUJITHA** Registered No. **18X41E0050** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
**G. KIRAN M. Com, MBA**  
**Asst. Professor & Project Guide**

  
**B.V.S.S. SUBBA RAO,**  
**Project Review Committee**

  
**Dr. N. SUBRAMANYAM**  
**Professor & Head**  
**Professor & Head**  
**Department of Business Administration,**  
**SRK Institute of Technology,**  
**Affiliated to JNTU Kakinada**  
**ENIKEPADU, VIJAYAWADA-521 108.**

**EXTERNAL EXAMINER**

  
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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “**LEADERSHIP STYLE AMONG THE EMPLOYEES**” With reference to **THE KAY HOTEL, Vijayawada**” is a bonafide work done by **V. SAPTHAVI KRISHNA** Registered No. **18X41E0051** under my guidance and supervision in partial fulfilment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

**G.KIRAN, M.Com, MBA,**  
Assistant Professor

**B.V.S.S. Subba Rao, M.Com, MBA, (Ph.D)**  
Project Review Committee

**Dr. N. SUBRAMANYAM**  
Professor & Head

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

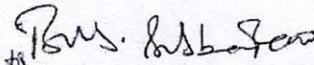
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ENIKEPADU, VIJAYAWADA-521 108.

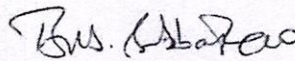


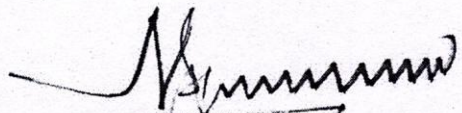
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**DEPARTMENT OF BUSINESS ADMINISTRATION**  
(An ISO 9001-2015 Certified Institution, Approved by AICTE, Affiliated to JNTU -K)  
Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the project entitled “A STUDY ON CAPITAL BUDGETING With reference to CARGOMEN LOGISTICS(INDIA) PVT LTD VISAKHAPATNAM” is a bonafide work done by **B. GOPI KRISHNA** Registered No. **18X41E0005** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

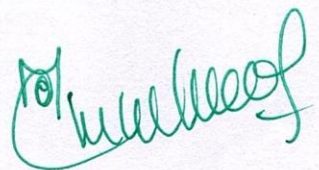
  
**J. SAI SUDHEER KUMAR**, MBA, (Ph.D)  
Asst. Professor & Project Guide

  
**B.V.S.S. Subba Rao**, M.Com, MBA, (Ph.D)  
Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head

— Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

  
**PRINCIPAL**  
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.



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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “A STUDY ON CAPITAL BUDGETING with reference to Model Dairy Private Ltd, Vijayawada” is a bonafide work done by **KARRI NAGARAJU** Registered No. **18X41E0019** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

**J. SAI SUDHEER KUMAR, MBA, (Ph.D)**  
Assistant Professor & Project Guide

**B.V.S.S. SUBBA RAO, MBA (Ph.D)**  
Project Review Committee

**DR. N. SUBRAMANYAM**  
Professor & Head

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

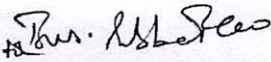
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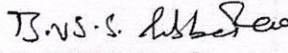


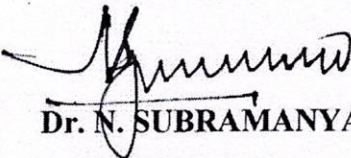
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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled "A STUDY ON WORKING CAPITAL With reference to RAGHURAM HUME PIPES PRIVATE LIMITED, GUNTUR" is a bonafide work done by K. HEMAKANTH Registered No. 18X41E0024 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of Master of Business Administration in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

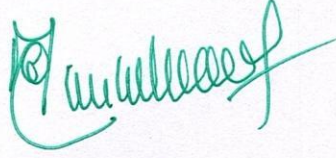
  
Mr. J. SAI SUDHEER KUMAR, MBA, (Ph.D.)  
Asst. Professor & Project Guide

  
B.V.S.S. SUBBARAO, (M. Com, MBA, Ph. D)  
Project Review Committee

  
Dr. N. SUBRAMANYAM  
Professor & Head

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

  
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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled "A STUDY ON RATIO ANALYSIS With reference to DELTA PAPER MILLS LTD.," is a bonafide work done by **K. JAGADISH KUMAR** Registered No. **18X41E0026** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

**J. SAI SUDHEER KUMAR, MBA (Ph.D).**  
**Professor & Project Guide**

**B.V.S.S. SUBBA RAO, M.Com, MBA, (Ph.D)**  
**Project Review Committee**

**Dr. N. SUBRAMANYAM**  
**Professor & Head**

**Professor & Head**  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU -Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**



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Enikepadu, Vijayawada – 521 108

### CERTIFICATE

This is to certify that the Project entitled “A STUDY ON RECRUITMENT AND SELECTION With SPECIAL reference to BIG BAZAAR PRIVATE LIMITED, HYDERABAD” is a bonafide work done by KUCHIBHOTLA SAI SUPRIYA Registered No. 18X41E0027 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of MASTER OF BUSINESS ADMINISTRATION in SRK INSTITUTE OF TECHNOLOGY, Enikepadu, Vijayawada, affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA. This work is original and the same has not been submitted previously by any person for the degree of Master of Business Administration.

Mr. J. SAI SUDHEER KUMAR MBA,(Ph.D)

Asst. Professor & Project Guide

Mr. B.V.S.S. SUBBARAO, Mcom, MBA, (Ph.D)

Project Review Committee

Dr. N. SUBRAMANYAM

Professor & Head

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

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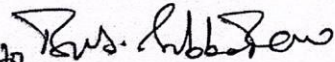
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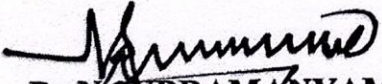
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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “A STUDY ON WORKING CAPITAL MANAGEMENT With reference to The Krishna District Milk Producers Mutually Aided Cooperative Union Ltd, Vijayawada” is a bonafide work done by MOHAMMAD GOUSE Registered No. 18X41E0031 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of Master of Business Administration in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
J.S. SUDHEER KUMAR, MBA, (Ph.D)  
Assistant Professor & Project Guide

  
B.V.S.S. Subba Rao, M.Com, MBA, (Ph.D)  
Project Review Committee

  
Dr. N. SUBRAMANYAM  
Professor & Head

**EXTERNAL EXAMINER**



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SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

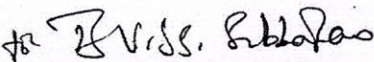


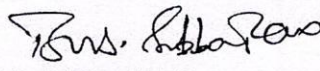
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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “**STRESS MANAGEMENT WITH REFERENCE TO SOUTH CENTRAL RAILWAYS, VIJAYAWADA**” is a bonafide work done by **N. RAVI TEJA** Registered No. **18X41E0033** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
**J.SAI SUDHEER KUMAR, MBA, (Ph.D),**  
Assistant Professor &  
Project Guide

  
**B.V.S.S. SUBBA RAO, M.Com, MBA (Ph.D)**  
Project Review Committee

**Dr. N. SUBRAMANYAM**  
Professor & Head

**EXTERNAL EXAMINER**



**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**





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## CERTIFICATE

This is to certify that the project entitled "A STUDY ONJOB SATISFACTION WITH REFERENCE TO HERITAGE FOODS Ltd, Vijayawada" is a bonafide work done by S. YASASWINI Registered No. 18X41E0044 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of Master of Business Administration in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

J. S SUDHEER KUMAR, MBA, (Ph.D)

Asst. Professor & Project Guide

B.V.S.S. Subba Rao, M.Com, MBA, (Ph.D)

Project Review Committee

Dr. N. SUBRAMANYAM

Professor & Head  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

EXTERNAL EXAMINER

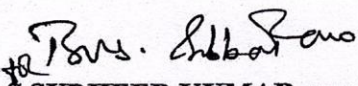
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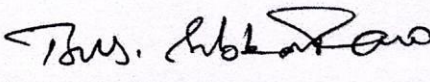


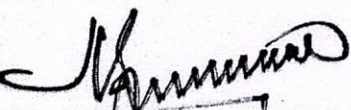
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Enikepadu, Vijayawada – 521 108

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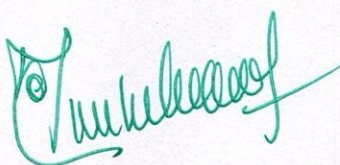
This is to certify that the project entitled “A STUDY ON EQUITY ANALYSIS With reference to Doha Brokerage & Financial Service Securities Ltd, Kerala” is a bonafide work done by MUCHU VENKATA KRISHNA, Registered No. 18X41E0048 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of Master of Business Administration in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
**J. S. SUDHEER KUMAR, MBA, (Ph.D).**  
Assistant Professor & Project Guide

  
**B.V.S.S. SUBBA RAO, M.Com, MBA, (Ph.D)**  
Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

  
**PRINCIPAL**  
SRK Institute of Technology  
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Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the project entitled “A STUDY ON BALANCING OF WORK”

With reference to AMARAVATI MEDIA HOUSE PRIVATE LIMITED is a bonafide work done by ABDUL RAVOOF Registered No. 18X41E0001 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of Master of Business Administration in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

B.V.S.S. SubbaRao, M. Com, MBA, (Ph.D),  
Asst. Professor & Project Guide

B.V.S.S. SubbaRao, M. Com, MBA, (Ph.D)  
Project Review Committee

D.F.N. SUBRAMANYAM  
Professor & Head

EXTERNAL EXAMINER

PRINCIPAL

SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.



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Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the project entitled "QUALITY OF WORKLIFE" With reference to" BHARATHI CONSUMER CARE PRODUCTS PVT LTD GUNTUR" is a bonafide work done by B.TEJA Registered No. 18X41E0006 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

Mr. B.V.S.S.SUBBA Rao, M.Com, MBA, (Ph.D)

Assistant Professor & Project Guide

B.V.S.S. SUBBARAO, M.Com, MBA, (Ph.D)

Project Review Committee

Dr.N. SUBRAMANYAM

Professor & Head

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

EXTERNAL EXAMINER

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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “**A STUDY ON RECRUITMENT AND SELECTION** With reference to **3i INFOTECH Ltd, Hyderabad**” is a bonafide work done by **G.LAKASHMI PRASANNA** Registered No. **18X41E0016**. under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

**B. V. S. S. SUBBA RAO**

**Asst. Professor & Project Guide**

**B.V.S.S. SUBBA RAO, M.Com, MBA, (Ph.D)**

**Project Review Committee**

**Dr. N. SUBRAMANYAM**

**Professor & Head**

**Professor & Head**  
**Department of Business Administration,**  
**SRK Institute of Technology,**  
**Affiliated to JNTU Kakinada**  
**ENIKEPADU, VIJAYAWADA-521 108.**

**EXTERNAL EXAMINER**

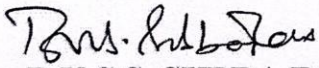
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**ENIKEPADU, VIJAYAWADA-521 108.**

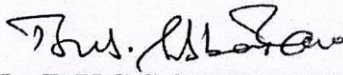


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Enikepadu, Vijayawada – 521 108

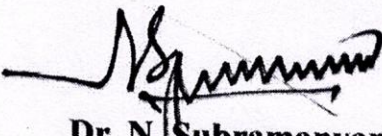
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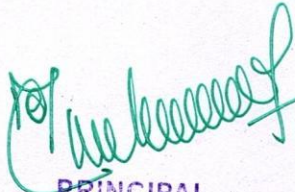
This is to certify that the project entitled “A STUDY ON RATIO ANALYSIS WITH REFERENCE TO APGENCO-Dr NTPS, IBRAHIMPATNAM”, is a bonafide work done by **KODUDULA INDU** Registered No. **18X41E0023** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **MASTER OF BUSINESS ADMINISTRATION** in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Master of Business Administration.

  
**Mr. B.V.S.S. SUBBA RAO**  
**Asst. Professor & Project Guide**

  
**Mr. B.V.S.S. SUBBA RAO**  
**Project Review Committe**

**External Examiner**

  
**Dr. N. Subramanyam**  
**Professor & Head**  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
**ENIKEPADU, VIJAYAWADA-521 108.**

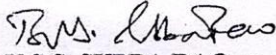
  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

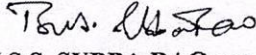


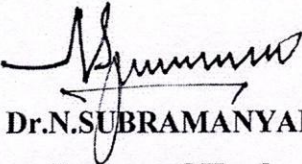
**S.R.K. INSTITUTE OF TECHNOLOGY**  
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(An ISO 9001-2015 Certified Institution, Approved by AICTE, Affiliated to JNTU -K)  
Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “A STUDY ON EMPLOYEE WELFARE MEASURES With reference to **COROMANDEL INTERNATIONAL LTD, Vijayawada**” is a bonafide work done by **N.V.S.M. SIVA SAI** Registered No. **18X41E0034** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
**B.V.S.S. SUBBA RAO, M. Com, MBA, (Ph.D),**  
**Asst. Professor & Project Guide**

  
**B.V.S.S. SUBBA RAO, M. Com, MBA, (Ph.D)**  
**Project Review Committee**

  
**Dr. N. SUBRAMANYAM**  
**Professor & Head**

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**



**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**



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**DEPARTMENT OF BUSINESS ADMINISTRATION**  
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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “A STUDY ON SAFETY & WELFARE MEASURES With reference to VAZIR SULTAN TOBACCO INDUSTRIES LIMITED, Vijayawada” is a bonafide work done by **SHAIK.MABU SHARIFF** Registered No. **18X41E0042** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

**B.V.S.S. SUBBA RAO, M.Com,MBA,(Ph.D)**  
**Assistant Professor &Project Guide**

**B.V.S.S. SUBBA RAO, M.Com,MBA,(Ph.D)**  
**Project Review Committee**

**Dr.N. SUBRAMANYAM**

**Professor & Head**

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**





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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled “A STUDY ON ORGANIZATIONAL DEVELOPMENT With reference to ZUARI CEMENTS Pvt., Ltd, Hyderabad” is a bonafide work done by **V. KRANTHI KIRAN KUMAR REDDY** Registered No. **18X41E0049** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

**B.V.S.S. SUBBA RAO, M.Com, MBA,**  
**Assistant Professor & Project Guide**

**B.V.S.S. SUBBA RAO, M.Com, MBA, (Ph.D)**  
**Project Review Committee**

**Dr. N. SUBRAMANYAM**  
**Professor & Head**

**Professor & Head**  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

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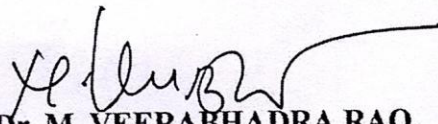
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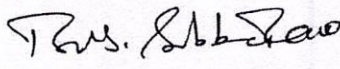
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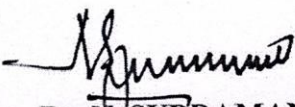
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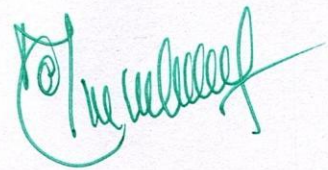
This is to certify that the project entitled “A STUDY ON RATIO ANALYSIS With reference to **PRAKASAM MILK PRODUCERS COMPANY LIMITED, ONGOLE**” is a bonafide work done by **G. JYOTHIRMAI** Registered No. **18X41E0012** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

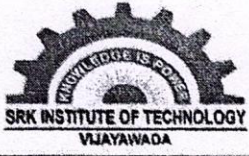
  
**Dr. M. VEERABHADRA RAO,**  
Professor & Project Guide

  
**B.V.S.S. SUBBA RAO,**  
Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

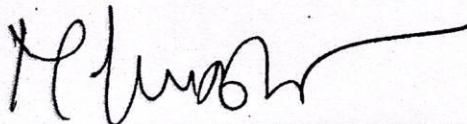
  
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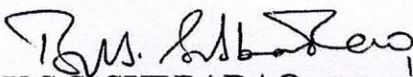


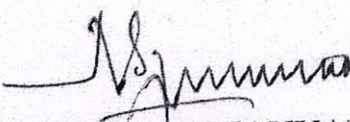
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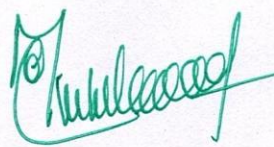
This is to certify that the project entitled “A STUDY ON FUNDS FLOW ANALYSIS With reference to Andhra Hospitals (Vijayawada) Pvt. Ltd.” is a bonafide work done by G. SAI DURGA Registered No. 18X41E0015 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
**Dr. M. VEERABHADRARAO**  
Professor & Project Guide

  
**B.V.S.S. SUBBARAO**, M.Com, MBA, ( Ph.D.)  
16/03/2020  
Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

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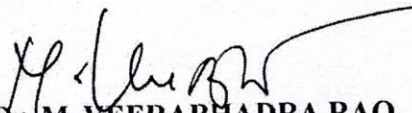
  
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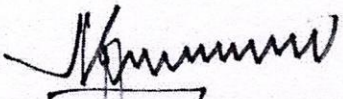
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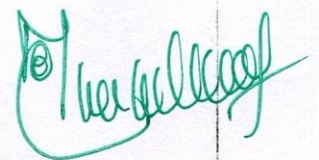
This is to certify that the project entitled "A STUDY ON WORKING CAPITAL MANAGEMENT with reference to PRAKASAM MILK PRODUCER COMPANY Ltd, ONGOLE" is a bonafide work done by K. VIJAYA JAYANHI Registered No. 18X41E0018 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
**Dr. M. VEERABHADRA RAO,**  
Professor & Project Guide

  
**B.V.S.S. SUBBA RAO, M.Com, MBA, (Ph.D)**  
Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**



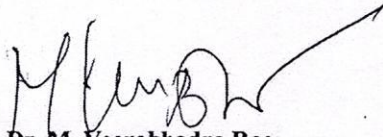
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**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

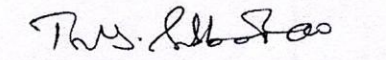


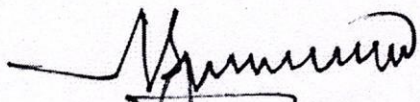
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(An ISO 9001-2015 Certified Institution, Approved by AICTE, Affiliated to JNTU -K)  
Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the project entitled **A STUDY ON TRAINING AND DEVELOPMENT** With reference to **“MODEL DAIRY PRIVATE Ltd, Vijayawada”** is a bonafide work done by **M. ANIL KUMAR** Registered No. **18X41E0030** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
**Dr. M. Veerabhadra Rao**  
**Professor & Project Guide**

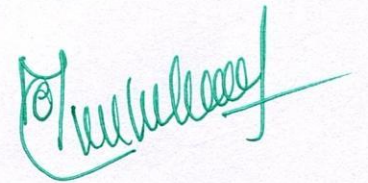
  
**B.V.S.S. Subba Rao, M.Com, MBA,(Ph.D)**  
**Project Review Committee**

  
**Dr. N. SUBRAMANYAM**

**Professor & Head**

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada.  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**



**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**



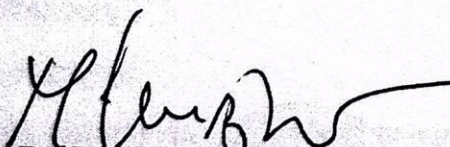
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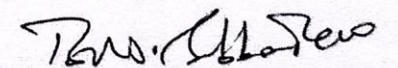
DEPARTMENT OF BUSINESS ADMINISTRATION

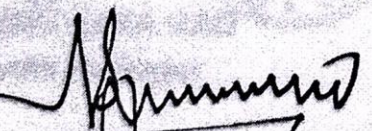
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Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the project entitled “A STUDY ON JOB SATISFACTION With reference to SRI ANANTHA LAKSHMI SPINNING MILLS PVT.LTD, GUNTUR” is a bonafide work done by P. TIRUMALARAO Registered No. 18X41E0035 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

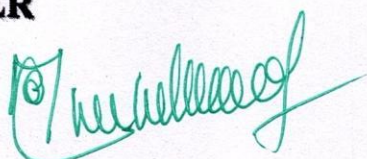
  
**Dr. M. VEERABHADRARAO**  
Professor & Project Guide

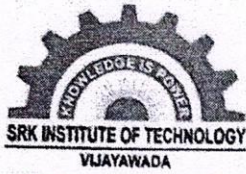
  
**Mr. B.V.S.S. SUBBARAO**, M.Com, MBA, (Ph.D)  
Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head

**EXTERNAL EXAMINER**

Professor & Head  
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SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.



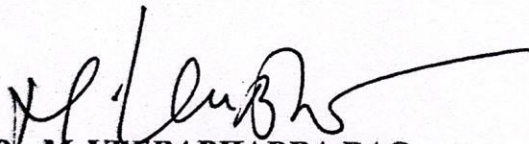
# S.R.K. INSTITUTE OF TECHNOLOGY

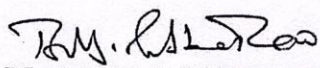
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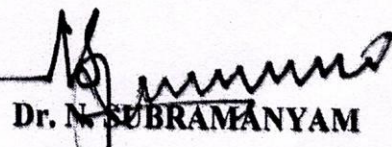
## CERTIFICATE

This is to certify that the project entitled "A STUDY ON FINANCIAL LEVERAGE AND IT'S IMPACT ON FINANCIAL PERFORMANCE WITH REFERENCE KUSALAVA INTERNATIONAL LIMITED", is a bonafide work done by RUDRA TEJA SREE Registered No. 18X41E0038 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of MASTER OF BUSINESS ADMINISTRATION in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Master of Business Administration.

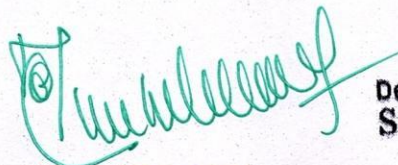
  
**Dr. M. VEERABHADRA RAO**  
Professor & Project Guide

  
**Mr. B.V.S.S. SUBBA RAO**  
Project Review Committee

External Examiner

  
**Dr. N. SUBRAMANYAM**  
Professor & Head

Professor & Head  
Department of Business Administration  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108



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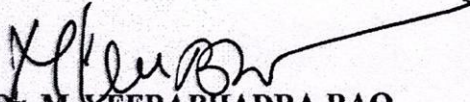
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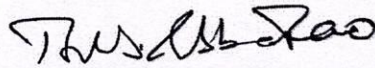


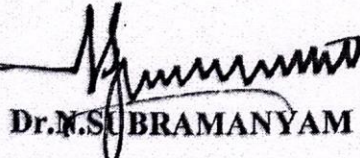
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Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the project entitled “A STUDY ON PERFORMANCE APPRAISAL, With reference to 3i INFOTECH Ltd, Hyderabad ” is a bonafide work done by S.VENNELA Registered No. 18X41E0039.under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

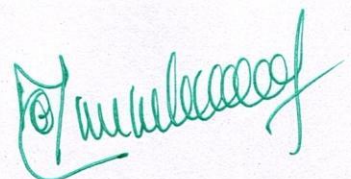
  
**Dr. M. VEERABHADRA RAO.**  
Professor & Project Guide

  
**B.V.S.S. SUBBA RAO, M.Com,MBA,(ph.D)**  
Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**



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SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

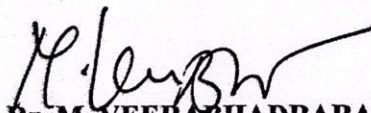


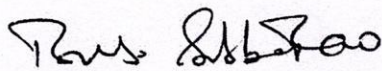


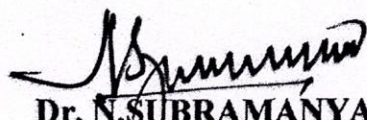
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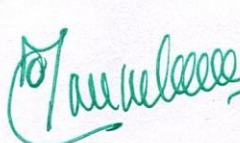
This is to certify that the project entitled “**A STUDY ON RECRUITMENT AND SELECTION PROCESS** With reference to **THE KRISHNA DISTRICT MILK PRODUCERS MUTUALLY AIDED CO-OPERATIVE UNION LIMITED, VIJAYAWADA** is a bonfire work done by **T.GOPALA KRISHNA** Registered No. **18X41E0045** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
**Dr. M. VEERABHADRARAO**  
Professor & Project Guide

  
**Mr. B.V.S.S. SubbaRao, M.Com, MBA, (Ph.D)**  
Project Review Committee

  
**Dr. N.SUBRAMANYAM**  
Professor & Head  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
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ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**

  
**PRINCIPAL**  
SRK Institute of Technology  
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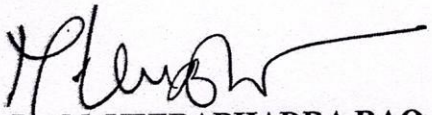
DEPARTMENT OF BUSINESS ADMINISTRATION

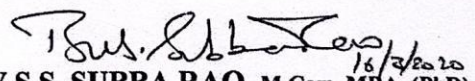
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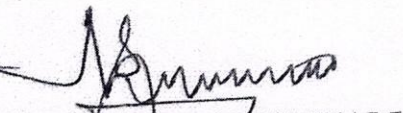
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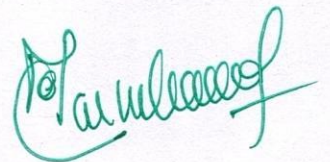
This is to certify that the project entitled “A STUDY ON FUNDS FLOW ANALYSIS With reference to VELKO INFRATEK PROJECTS PVT. LTD, Vijayawada” is a bonafide work done by T. SAI APARNA Registered No. 18X41E0046 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Business Administration** in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted to any other University or Institution for the award of any Degree or Diploma.

  
**Dr. M. VEERABHADRA RAO,**  
Professor & Project Guide

  
**B.V.S.S. SUBBA RAO, M.Com, MBA, (PhD)**  
Project Review Committee

  
**Dr. N. SUBRAMANYAM**  
Professor & Head  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**EXTERNAL EXAMINER**



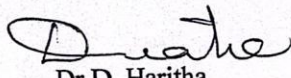
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ENIKEPADU, VIJAYAWADA-521 108.

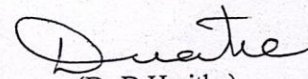
**S.R.K INSTITUTE OF TECHNOLOGY ENIKEPADU, VIJAYAWADA.  
DEPARTMENT OF COMPUTER APPLICATIONS**



**CERTIFICATE**

This is to certify that this project report entitled **Energy Prediction Using Machine Learning** being submitted by **Mr. Addanki Anantha Krishna Aditya** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

  
Dr D. Haritha  
Signature of the Guide

  
(Dr.D.Haritha)  
Signature of the HOD

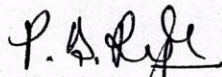
  
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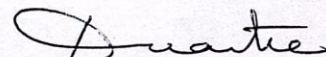


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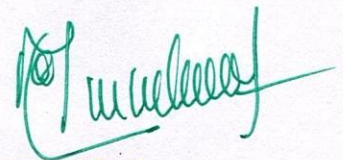
This is to certify that this project report entitled **Stratifying News Using Bert Algorithm In Machine Learning** being submitted by **Mr. Appala Sai Akhil** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.



P. Bhagya Raju  
Signature of the Guide

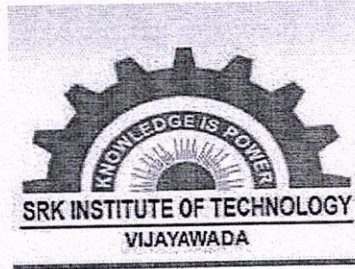


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Signature of the HOD



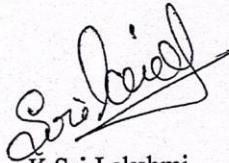
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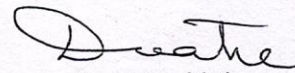


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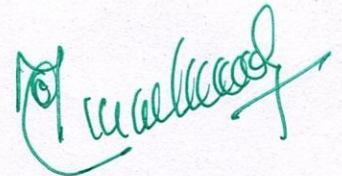
This is to certify that this project report entitled **A Sentiment Analysis System To Improve Teaching & Learning** being submitted by **Mr. Basu Vamsi Krishna** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.



K.Sri Lakshmi  
Signature of the Guide

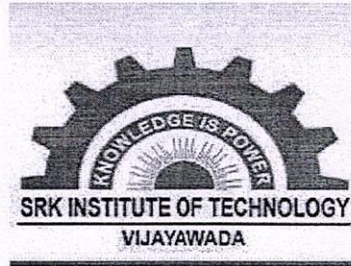


(Dr.D.Haritha)  
Signature of the HOD



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DEPARTMENT OF COMPUTER APPLICATIONS**



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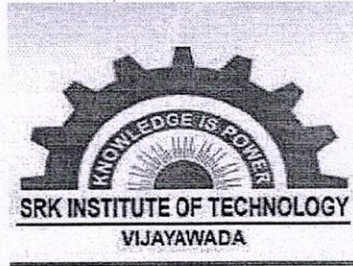
This is to certify that this project report entitled **Authorship Verification Using One Short Leaning** being submitted by **Ms. Bhimoreddy Sivanagamalleswari** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*N. Venkata MB*  
N.V.Madhu Bindu  
Signature of the Guide

*Dr. D. Haritha*  
(Dr.D.Haritha)  
Signature of the HOD

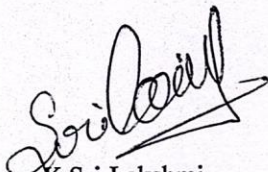
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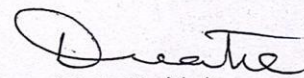
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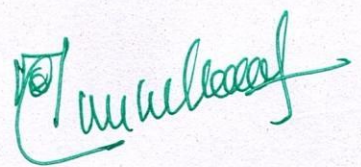


**CERTIFICATE**

This is to certify that this project report entitled **Data Analytics And Book Recommendation System** being submitted by **Ms. Bhimireddy Venkatalakshmi** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

  
K.Sri Lakshmi  
Signature of the Guide

  
(Dr.D.Haritha)  
Signature of the HOD

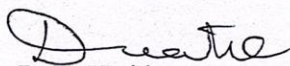
  
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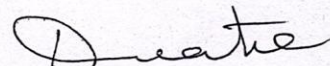


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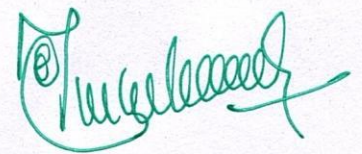
This is to certify that this project report entitled **Author Handwriting Identification Using Machine Learning** being submitted by **Ms. Bobba Savithri** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.



Dr D. Haritha  
Signature of the Guide



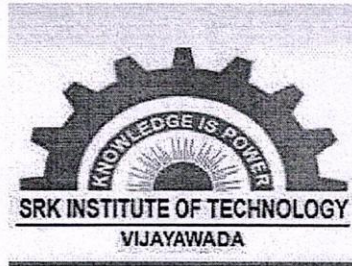
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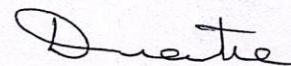


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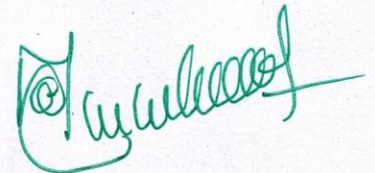
This is to certify that this project report entitled **Detection And Predaction Of Air Polluiton Using Machine Learning** being submitted by **Ms. Bongu Yamini** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.



**Ch. Ambedkar**  
Signature of the Guide

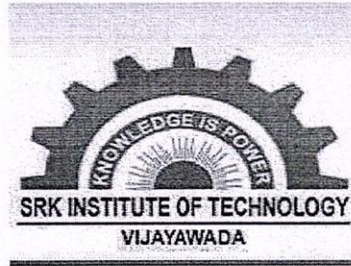


**(Dr. D. Haritha)**  
Signature of the HOD



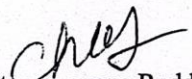
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**ENIKEPADU, VIJAYAWADA-521 108.**

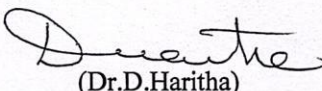
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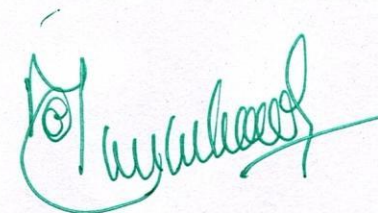


**CERTIFICATE**

This is to certify that this project report entitled **College Website Management System** being submitted by **Ms/Mr. Chinta Bala Bhaskar Reddy** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

  
Ch. Satyanarayana Reddy  
Signature of the Guide

  
(Dr. D. Haritha)  
Signature of the HOD

  
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ENIKEPADU, VIJAYAWADA-521 108.

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DEPARTMENT OF COMPUTER APPLICATIONS**



**CERTIFICATE**

This is to certify that this project report entitled **Student Faculty Help Desk** being submitted by **Ms. Choppavarapu Maheswari** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*J. Niranjani*

J.Niranjani

Signature of the Guide

*Dr. D. Haritha*

(Dr.D.Haritha)

Signature of the HOD

*[Handwritten Signature]*

PRINCIPAL

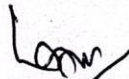
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DEPARTMENT OF COMPUTER APPLICATIONS**

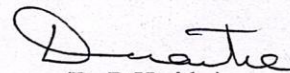


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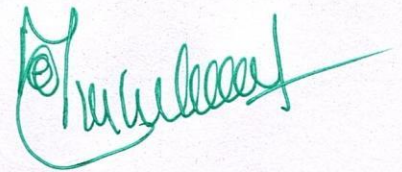
This is to certify that this project report entitled **Dengue Possibility Forecasting Model Using Machine Learning** being submitted by **Mr. Diyya Pavan Kumar** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.



D.V.V.B.Chari  
Signature of the Guide

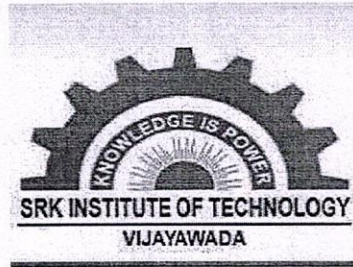


(Dr.D.Haritha)  
Signature of the HOD



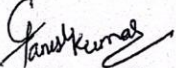
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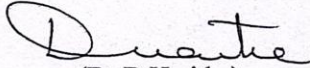
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DEPARTMENT OF COMPUTER APPLICATIONS**



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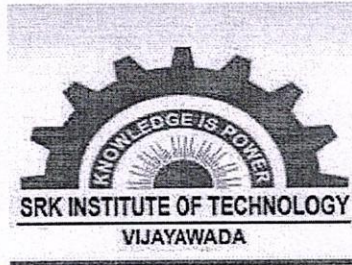
This is to certify that this project report entitled **Image Caption Generator Using Cnn & Lstm** being submitted by **Ms. K Naga Tejaswi** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

  
T. Ganesh Kumar  
Signature of the Guide

  
(Dr. D. Haritha)  
Signature of the HOD

  
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DEPARTMENT OF COMPUTER APPLICATIONS**



**CERTIFICATE**

This is to certify that this project report entitled **Face Recoginiton Based Attendance System** being submitted by **Ms. Kondapalli Krupa Sagari** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*M. Naresh Babu*

M.Naresh Babu  
Signature of the Guide

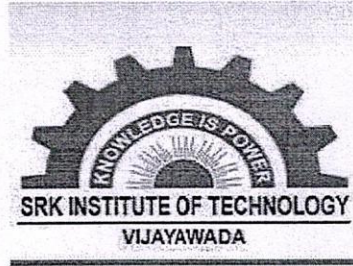
*Dr. D. Haritha*

(Dr.D.Haritha)  
Signature of the HOD

*[Handwritten Signature]*

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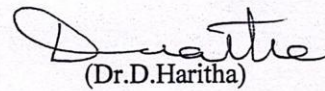


**CERTIFICATE**

This is to certify that this project report entitled **Diabetics Predetection Using Machine Learning** being submitted by **Ms. Marella Venkata Poorna Sasirekha** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.



Dr N. Neelima Priyanka  
Signature of the Guide

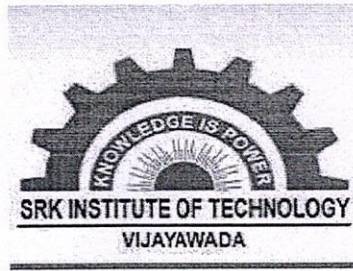


(Dr. D. Haritha)  
Signature of the HOD



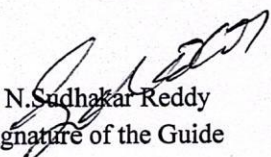
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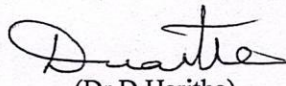
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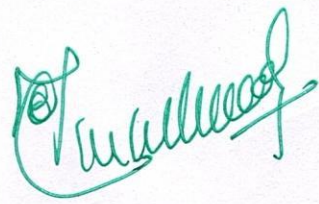


**CERTIFICATE**

This is to certify that this project report entitled **Disease Prediction Based On Symptoms** being submitted by **Mr. Meesala Venkateswarlu** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

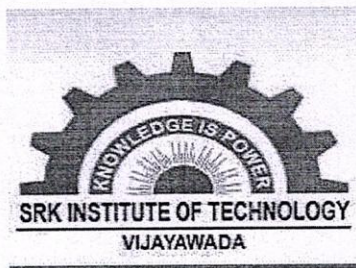
  
N. Sudhakar Reddy  
Signature of the Guide

  
(Dr.D.Haritha)  
Signature of the HOD

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

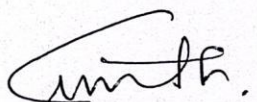


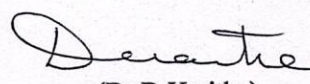
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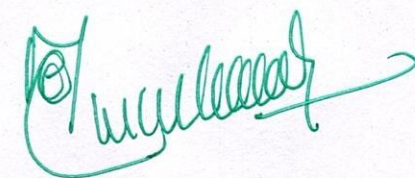


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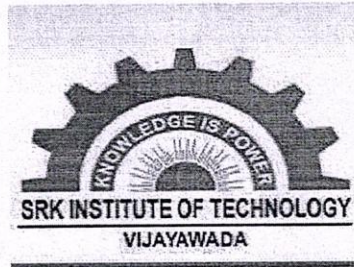
This is to certify that this project report entitled **Fake News Detection** being submitted by **Ms. Nalam Manasa** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

  
M.V.Sumanth  
Signature of the Guide

  
(Dr.D.Haritha)  
Signature of the HOD

  
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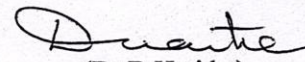


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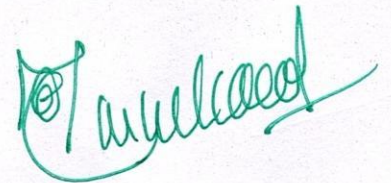
This is to certify that this project report entitled **Prevising Plant Disease By Uisng Machine Learning** being submitted by **Ms. Pachava Hemalatha** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.



P. Bhagya Raju  
Signature of the Guide

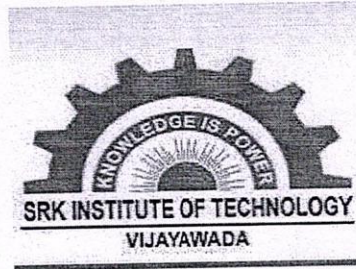


(Dr. D. Haritha)  
Signature of the HOD



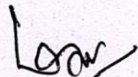
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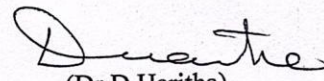


**CERTIFICATE**


This is to certify that this project report entitled **Detecting Parkinson's Disease Using Machine Learning** being submitted by **Mr. Pathan Aslam Basha** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.



D.V.V.B.Chari  
Signature of the Guide

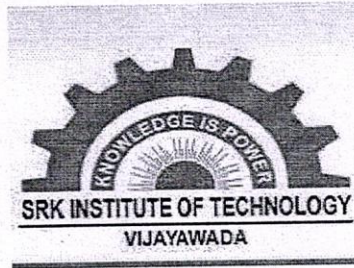


(Dr.D.Haritha)  
Signature of the HOD



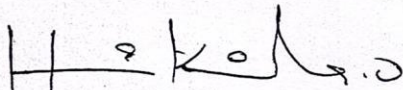
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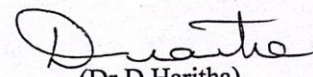
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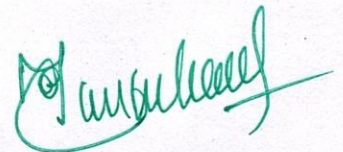


**CERTIFICATE**

This is to certify that this project report entitled **Human Activity Recognition Using Smart Phones** being submitted by **Mr. Polavarapu Bala Kishore** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

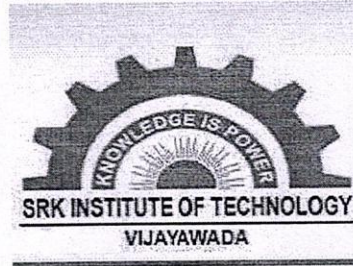
  
U. Hari Krishna  
Signature of the Guide

  
(Dr. D. Haritha)  
Signature of the HOD



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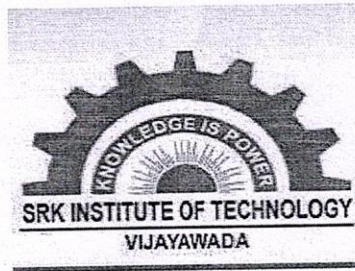
This is to certify that this project report entitled **Predicting Cloud Knowledge From Satellite Imagery** being submitted by **Ms. Polavarapu Naga Ramya Sri** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

Dr. B.Asha Latha  
Signature of the Guide

(Dr.D.Haritha)  
Signature of the HOD

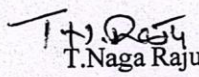
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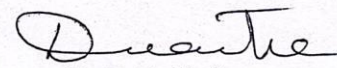
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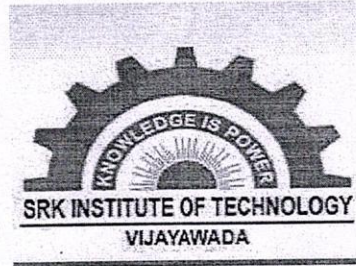
This is to certify that this project report entitled **Gender Classification Using Elastic Lasso Classifier** being submitted by **Ms. P.S Vijaya** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

  
T.Naga Raju  
Signature of the Guide

  
(Dr.D.Haritha)  
Signature of the HOD

  
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**CERTIFICATE**

This is to certify that this project report entitled **Indian Water Quality Analysis** being submitted by **Mr. Ramisetti Raghu Ramaiah** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

*P. Jaya Sri*  
P. Jaya Sri

Signature of the Guide

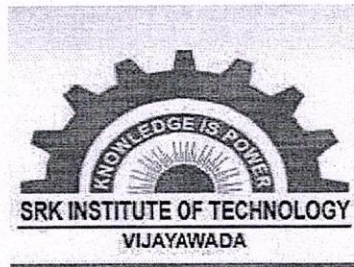
*Dr. D. Haritha*  
(Dr. D. Haritha)

Signature of the HOD

*(Signature)*

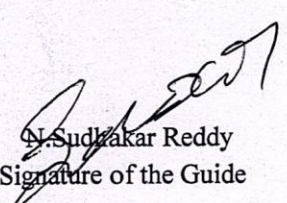
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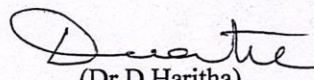
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This is to certify that this project report entitled **Lung Cancer Detection Using Machine Learning** being submitted by **Ms. Sajja Sowjanya** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

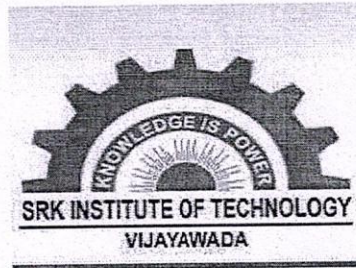
  
N. Sudhakar Reddy  
Signature of the Guide

  
(Dr.D.Haritha)  
Signature of the HOD

  
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**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

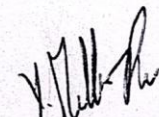


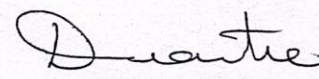
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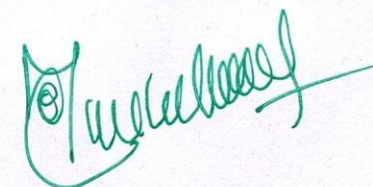


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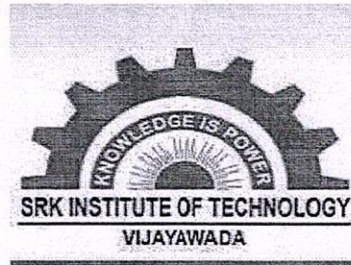
This is to certify that this project report entitled **Handwritten Text Recognition System** being submitted by **Ms. Somarapati Haseena** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

  
Y. Naga Malleswara Rao  
Signature of the Guide

  
(Dr. D. Haritha)  
Signature of the HOD

  
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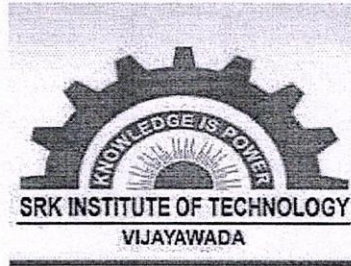
This is to certify that this project report entitled **Qrcode Generator For Library Management App** being submitted by **Mr. Somu Sisindhar Reddy** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

*J. Niranjani*  
J.Niranjani  
Signature of the Guide

*Dr. D. Haritha*  
(Dr.D.Haritha)  
Signature of the HOD

*[Handwritten Signature]*  
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**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

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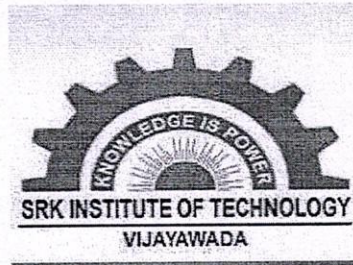
This is to certify that this project report entitled **Chat Bot** being submitted by **Mr. Thathineni Rahul** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

Dr N.Neelima priyanka  
Signature of the Guide

(Dr.D.Haritha)  
Signature of the HOD

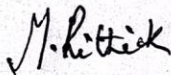
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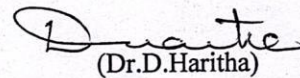


**CERTIFICATE**

This is to certify that this project report entitled **Faculty Reward Recommendation System** being submitted by **Mr. V.V. Ramana Reddy** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.



M.Rithvik  
Signature of the Guide

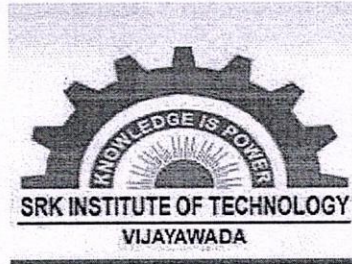


(Dr.D.Haritha)  
Signature of the HOD



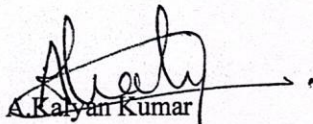
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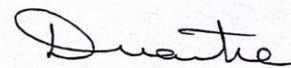


**CERTIFICATE**

This is to certify that this project report entitled **Walmart Sales Prediciton** being submitted by **Mr. Vallabhaneni Sai Aravind** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

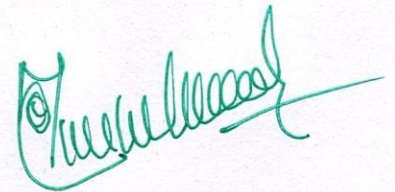


Signature of the Guide



(Dr.D.Haritha)

Signature of the HOD



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**S.R.K INSTITUTE OF TECHNOLOGY ENIKEPADU, VIJAYAWADA.  
DEPARTMENT OF COMPUTER APPLICATIONS**



**CERTIFICATE**

This is to certify that this project report entitled **Fake Profile Identification In Social Networks** being submitted by **Ms. Vemuri Venkata Sowbhagyalakshmi** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*Radhika*  
Dr.A.Radhika

Signature of the Guide

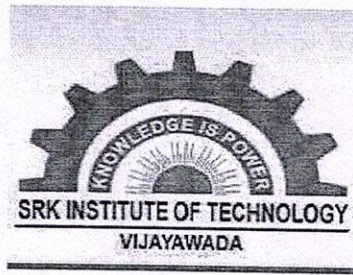
*Dr.D.Haritha*  
(Dr.D.Haritha)

Signature of the HOD

*[Handwritten Signature]*

**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

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**CERTIFICATE**

This is to certify that this project report entitled **Student Performance Analysis** being submitted by **Ms. Guraja Lalitha** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*Radhika*

Dr. A.Radhika  
Signature of the Guide

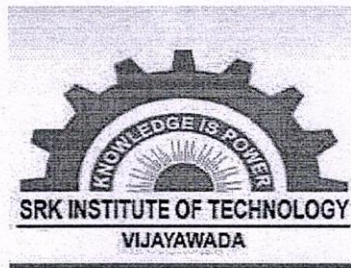
*Dr. D. Haritha*

(Dr.D.Haritha)  
Signature of the HOD

*[Handwritten Signature]*

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DEPARTMENT OF COMPUTER APPLICATIONS**



**CERTIFICATE**

This is to certify that this project report entitled **Analysis Of Indian Weather Dataset** being submitted by **Ms. Mohammed Sameenunnisa** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*N. Venkata MB*

N.V.Madhu Bindu  
Signature of the Guide

*Dr. D. Haritha*

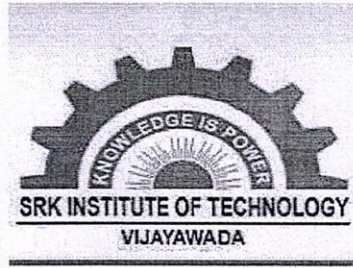
(Dr.D.Haritha)  
Signature of the HOD

*(Signature)*

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**CERTIFICATE**

This is to certify that this project report entitled **Tollgate App For Android Based Payment System** being submitted by **Ms. Yedlapalli Lavanya** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*M. Rithvik*

M.Rithvik  
Signature of the Guide

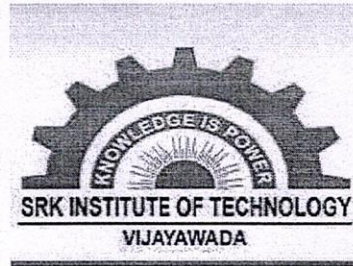
*Dr. D. Haritha*  
(Dr.D.Haritha)

Signature of the HOD

*[Handwritten Signature]*

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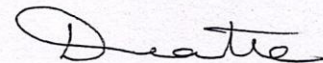


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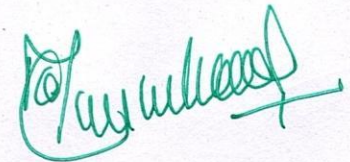
This is to certify that this project report entitled **Traffic Analysis Using Classification** being submitted by **Ms. Y.Pranaya** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.



Dr N.Neelima priyanka  
Signature of the Guide

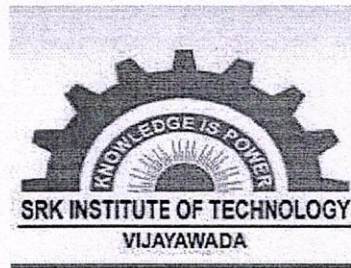


(Dr.D.Haritha)  
Signature of the HOD



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**CERTIFICATE**

This is to certify that this project report entitled **Disease Prediction Using Patient History & Health Data** being submitted by **Ms. Dasari Himabindu** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*T.Naga Raju*  
T.Naga Raju  
Signature of the Guide

*Dr.D.Haritha*  
(Dr.D.Haritha)  
Signature of the HOD

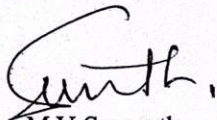
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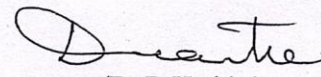


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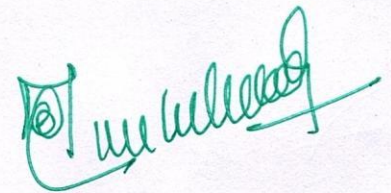
This is to certify that this project report entitled **Intrusion Detction System Using Victor Machine And Random Forest** being submitted by **Mr. Inapanuri Anil** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.



M.V.Sumanth  
Signature of the Guide



(Dr.D.Haritha)  
Signature of the HOD



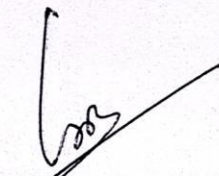
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**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 103.**

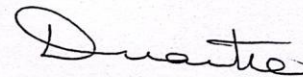
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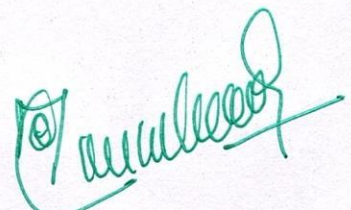


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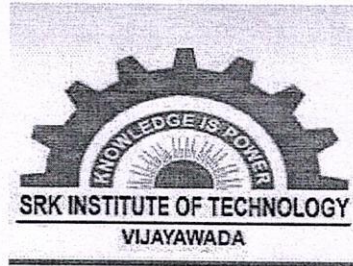
This is to certify that this project report entitled **Predetection Of Heart Disease Using Machine Learning** being submitted by **Mr. Karapa Venkata Siva Saikumar** in partial fulfillment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

  
Ch. Ambedkar  
Signature of the Guide

  
(Dr.D.Haritha)  
Signature of the HOD

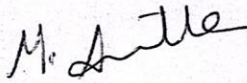
  
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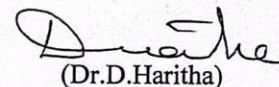


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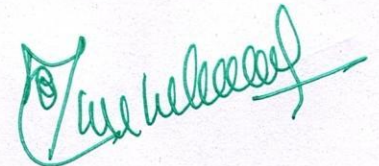
This is to certify that this project report entitled **Predict Future Sales Using Machine Learning** being submitted by **Mr. Pasam Ashok Kumar** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.



M.Anitha  
Signature of the Guide

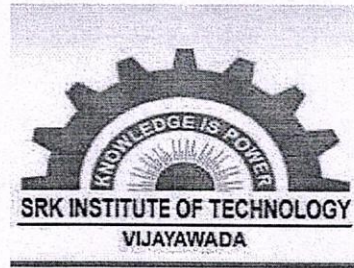


(Dr.D.Haritha)  
Signature of the HOD



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**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

**S.R.K INSTITUTE OF TECHNOLOGY ENIKEPADU, VIJAYAWADA.  
DEPARTMENT OF COMPUTER APPLICATIONS**



**CERTIFICATE**

This is to certify that this project report entitled **Virtual Mouse Implementation Using Opencv** being submitted by **Ms. Unnam Asha** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*M. Anitha*

M.Anitha  
Signature of the Guide

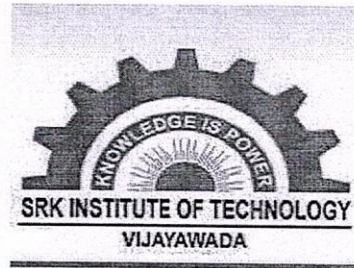
*Dr. D. Haritha*

(Dr.D.Haritha)  
Signature of the HOD

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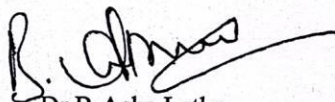
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

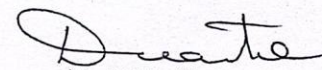
**S.R.K INSTITUTE OF TECHNOLOGY ENIKEPADU, VIJAYAWADA.  
DEPARTMENT OF COMPUTER APPLICATIONS**

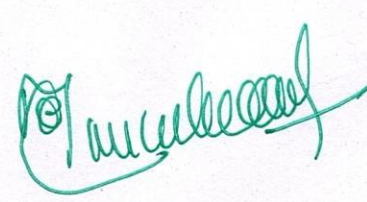


**CERTIFICATE**

This is to certify that this project report entitled **Predetection Of Under Water Surface Target To Sonar** being submitted by **Ms. Kolli Sireesha** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

  
Dr.B.Asha Latha  
Signature of the Guide

  
(Dr.D.Haritha)  
Signature of the HOD

  
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DEPARTMENT OF COMPUTER APPLICATIONS**



**CERTIFICATE**

This is to certify that this project report entitled **Ghat Road Altering System** being submitted by **Ms. Kommuri Naga Roja** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*J. Niranjani*  
J.Niranjani  
Signature of the Guide

*Dr. D. Haritha*  
(Dr.D.Haritha)  
Signature of the HOD

*[Handwritten Signature]*

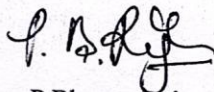
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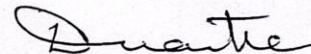


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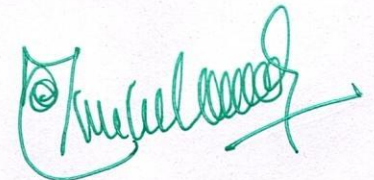
This is to certify that this project report entitled **Predicting Student Performance With Deep Neural Networks** being submitted by **Ms. Kondapalli Susmitha** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.



P. Bhagya Raju  
Signature of the Guide

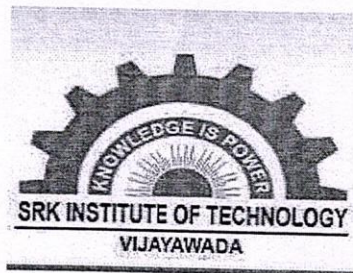


(Dr. D. Haritha)  
Signature of the HOD



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DEPARTMENT OF COMPUTER APPLICATIONS**



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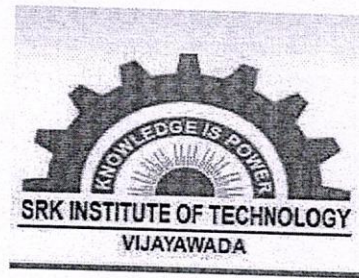
This is to certify that this project report entitled **GPS Enabled Bus Locator** being submitted by **Ms. Prasannalalitha** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

M.Rithvik  
Signature of the Guide

(Dr.D.Haritha)  
Signature of the HOD

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**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

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DEPARTMENT OF COMPUTER APPLICATIONS**



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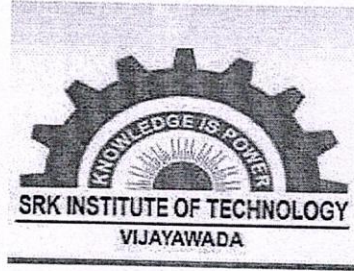
This is to certify that this project report entitled **College Club Management System** being submitted by **Ms. Shaik Rajiya** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*Radhika*  
Dr.A.Radhika  
Signature of the Guide

*Dr.D.Haritha*  
(Dr.D.Haritha)  
Signature of the HOD

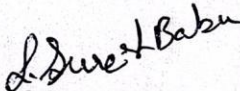
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SRK Institute of Technology  
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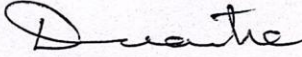
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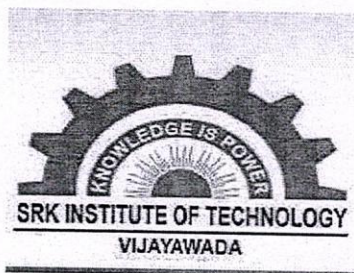
This is to certify that this project report entitled **Power Consumption Forecasting Using Machine Learning** being submitted by **Mr. Siriki Pavan Kumar** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

  
S.Suresh Babu  
Signature of the Guide

  
(Dr.D.Haritha)  
Signature of the HOD

  
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SRK Institute of Technology  
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**CERTIFICATE**

This is to certify that this project report entitled **Smart Student Rewards Recommendation System** being submitted by **Mr. Vucha Naga Venkata Madhu Babu** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

*M. Naresh*  
M.Naresh Babu  
Signature of the Guide

*Dr. D. Haritha*  
(Dr.D.Haritha)  
Signature of the HOD

*[Handwritten Signature]*

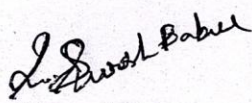
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SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

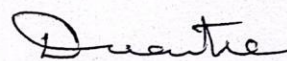
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DEPARTMENT OF COMPUTER APPLICATIONS**

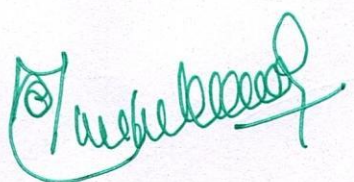


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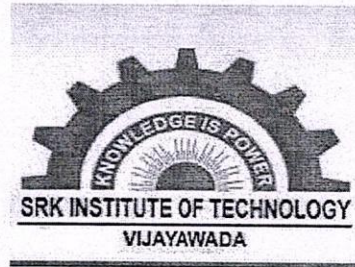
This is to certify that this project report entitled **Speech Emotion Recognition** being submitted by **Mr. Yadavakunta Sathish Kumar Reddy** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

  
S.Suresh Babu  
Signature of the Guide

  
(Dr.D.Haritha)  
Signature of the HOD

  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

**S.R.K INSTITUTE OF TECHNOLOGY ENIKEPADU, VIJAYAWADA.  
DEPARTMENT OF COMPUTER APPLICATIONS**



**CERTIFICATE**

This is to certify that this project report entitled **IOT Based Patient Health Monitoring System** being submitted by **Ms. Yalamanchili Haritha** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by her under my guidance and supervision.

*P. Jaya Sri*  
P. Jaya Sri

Signature of the Guide

*Dr. D. Haritha*  
(Dr. D. Haritha)

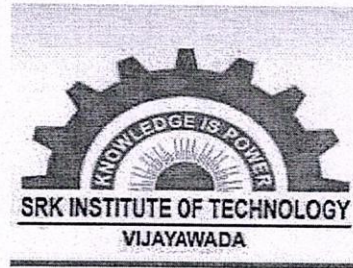
Signature of the HOD

*Dr. D. Haritha*

**PRINCIPAL**  
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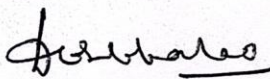


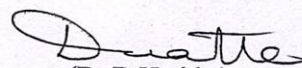
**S.R.K INSTITUTE OF TECHNOLOGY ENIKEPADU, VIJAYAWADA.  
DEPARTMENT OF COMPUTER APPLICATIONS**



**CERTIFICATE**

This is to certify that this project report entitled **Drowsy Driver Detection Using Neural Networks** being submitted by **Mr. Kallu Konda Reddy** in partial fulfilment for the award of the graduate degree of **MASTER OF COMPUTER APPLICATIONS** in Computer Applications Department to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under my guidance and supervision.

  
D.V.Subba Rao  
Signature of the Guide

  
(Dr.D.Haritha)  
Signature of the HOD

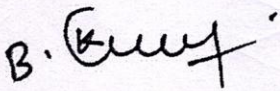
  
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Enikepadu, Vijayawada – 521 108

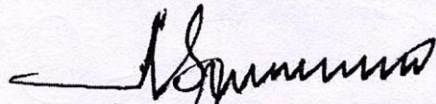
**CERTIFICATE**

This is to certify that the project entitled “A STUDY ON TRAINING & DEVELOPMENT WITH REFERENCE TO TRIMAX IT INFRASTRUCTURE & SERVICES PVT Ltd” is a sincere and honest work done by **CH. DEEPIKA** Registered No. 15X41M0001 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of Master of Applied Management in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Master of Applied Management.



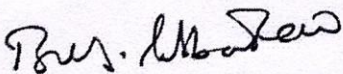
**Dr. B. KRISHNAIAH**

**Assistant Professor & Project Guide**



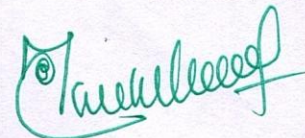
**Dr. N. SUBRAMANYAM**

**Professor & Head**  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.



**Mr. B.V.S.S. SUBBA RAO**  
**Project Review Committee**

**EXTERNAL EXAMINER**



**PRINCIPAL**  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.

(2015 – 2020)



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Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the project entitled "A STUDY ON RATIO EMPLOYEE JOB SATISFACTION WITH REFERENCE TO PRAKASAM MILK PRODUCER COMPANY LIMITED" is a bonafide work done by **K.PUSHPA RAJYAM** Registered No. **15X41M0008** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Applied Management** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted previously by any person for the degree of **Master of Applied Management**.

**Dr. B. KRISHNAIAH**  
**Asst. Professor & Project Guide**

**Dr. N. SUBRAMANYAM**  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**Mr. B.V.S.S.SUBBA RAO**  
**Project Review Committee**

**EXTERNAL EXAMINER**

**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**



**S.R.K. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF BUSINESS ADMINISTRATION**  
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Enikepadu, Vijayawada – 521 108

**CERTIFICATE**

This is to certify that the project entitled "A STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO 3i INOTECH" is a bonafide work done by **P.NATHANIYEL** Registered No. **15X41M0013** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Applied Management** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted previously by any person for the degree of **Master of Applied Management**.

**Mr. B. KRISHNAIAH**  
**Asst. Professor & Project Guide**

**Dr.N.SUBRAMANYAM**  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**Mr. B.V.S.S.SUBBA RAO**  
**Project Review Committee**

**EXTERNAL EXAMINER**

**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**

(Approved by AICTE, Affiliated to JNTU Kakinada)

Enikepadu, Vijayawada-521108

(2015 – 2020)



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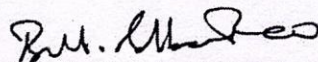
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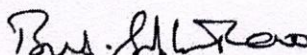
Enikepadu, Vijayawada – 521 108

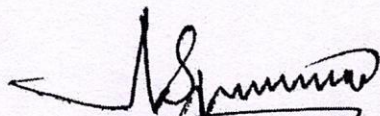
### CERTIFICATE

This is to certify that the report entitled "A STUDY ON CAPITAL BUDGETING with reference to SWEYA INFORMATION TECHNOLOGY PRIVATE LIMITED" is a bonafide work done by Y.SRI NAGA LAKSHMI Registered No. 15X41M0015 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Integrated MBA** (Fifth Year admitted batch of 2015-20) in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Integrated MBA.

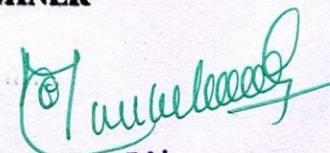
  
Mr.B.V.S.S.SUBBARAO

Asst. Professor & Project Guide

  
Mr. B.V.S.S.SUBBA RAO  
Project Review Committee

  
Dr.N.SUBRAMANYAM  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
Enikepadu, Vijayawada-521 108.  
Professor & Head

EXTERNAL EXAMINER

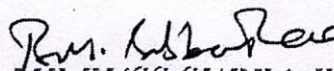
  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.



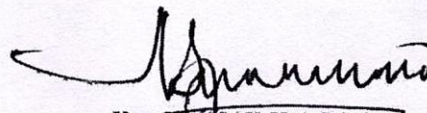
**S.R.K. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF BUSINESS ADMINISTRATION**  
(An ISO 9001-2015 Certified Institution, Approved by AICTE, Affiliated to JNTU -K)  
Enikepadu, Vijayawada – 521 108

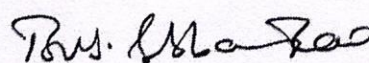
## CERTIFICATE

This is to certify that the project entitled “A STUDY ON STRESS MANAGEMENT OF EMPLOYEES WITH REFERENCE TO TRIMAX IT INFRASTRUCTURE AND SOLUTIONS” is a bonafide work done by **G. PRIYANKA** Registered No. 14X41M0004 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Applied Management** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted previously by any person for the degree of **Master of Applied Management**.

  
**MR. BVSS SUBBA RAO**

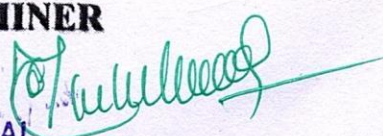
**Professor & Project Guide**

  
**DR. N. SUBRAMANYAM**  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology  
**Professor & Head of Department**

  
**MR. B.V.S.S. SUBBA RAO**

**Project Review Committee**

**EXTERNAL EXAMINER**

  
**PRINCIPAL**  
**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.



# S.R.K. INSTITUTE OF TECHNOLOGY

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Enikepadu, Vijayawada 521 108

### CERTIFICATE

This is to certify that the report entitled "**A STUDY ON RATIO ANALYSIS**" **WITH REFERENCE TO MODEL DAIRY PRIVATE LIMITED** is a bonafide work done by **CH.LALITHA** Registered No. **15X41M0002** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Integrated MBA** (Fifth Year admitted batch of 2015-2020) in **S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted previously by any person for the degree of **Integrated MBA**.

**Mr. G. KIRAN**

**Asst. Professor & Project Guide**

**Dr. N.SUBRAMANYAM**  
Professor & Head

Department of Business Administration,  
**SRK Institute of Technology,**  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**PRINCIPAL**

**SRK Institute of Technology**  
ENIKEPADU, VIJAYAWADA-521 108.



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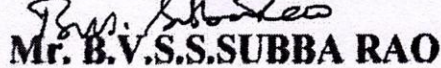
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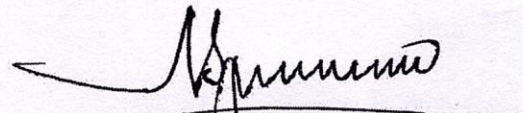
This is to certify that the report entitled "A STUDY ON WORKING CAPITAL MANAGEMENT " WITH REFERENCE TO DELTA PAPERS MILLS LIMITED is a bonafide work done by K. POOJITHA Registered No. 15X41M0007 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of Master of Applied Management in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Integrated MBA.

  
Mr.G. KIRAN

Assistant Professor & Project Guide

  
Mr. B.V.S.S.SUBBA RAO

Project Review Committee

  
Dr.N.SUBRAMANYAM

Professor & Head

EXTERNAL EXAMINER

Professor & Head  
Department of Business Administration,  
Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521108

  
PRINCIPAL

SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108.





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**CERTIFICATE**

This is to certify that the project entitled "A STUDY ON RATIO ANALYSIS WITH REFERENCE TO Delta Paper LTD" is a bonafide work done by **M.MANASA** Registered No. **15X41M0016** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Applied Management** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada**, affiliated to **Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted previously by any person for the degree of **Master of Applied Management**.

**Mr. G. KIRAN**  
**Asst. Professor & Project Guide**

**Dr. N. SUBRAMANYAM**  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

**Mr. B.V.S.S. SUBBA RAO**  
**Project Review Committee**

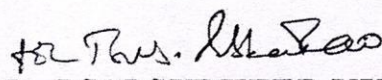
**EXTERNAL EXAMINER**



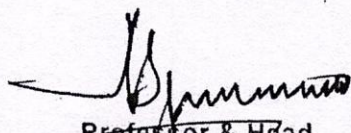
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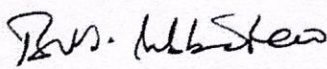
## CERTIFICATE

This is to certify that the project entitled "A STUDY ON WORKING CAPITAL MANAGEMENT WITH REFERENCE TO PRAKASAM MILK PRODUCER COMPANY LTD" is a bonafide work done by **G.PRIYNKA** Registered No. 15X41M0003 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Applied Management** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted previously by any person for the degree of **Master of Applied Management**.

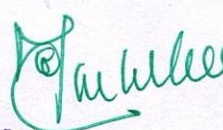
  
**Mr. J.SAI SUDHEER KUMAR**

**Dr.N.SUBRAMANYAM**  
**Asst. Professor & Project Guide**

  
**Professor & Head**  
Department of Business Administration,  
**SRK Institute of Technology,**  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

  
**Mr. B.V.S.S.SUBBA RAO**  
**Project Review Committee**

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**SRK Institute of Technology**  
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## CERTIFICATE

This is to certify that the project entitled “A STUDY ON WORKING CAPITAL MANAGEMENT WITH REFERENCE TO “CREAMLINE DAIRY PRODUCTS Ltd” is a bonafided work done by **P.JAYANDER** Registered No. **15X41M0012** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Applied Management** in **S.R.K Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted previously by any person for the degree of **Master of Applied Management**.

*J. Sai Sudheer Kumar*  
**J. SAI SUDHEER KUMAR**  
**Assistant Professor & Project Guide**

*Dr. N. Subramanyam*  
**Dr.N.SUBRAMANYAM**  
**Professor & Head**  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

*Mr. B.V.S.S. Subba Rao*  
**Mr. B.V.S.S.SUBBA RAO**  
**Project Review Committee**

**EXTERNAL EXAMINER**

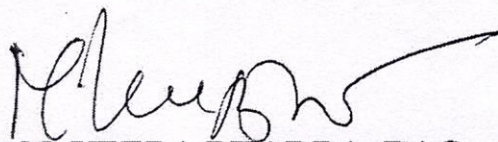
*Principal*  
**PRINCIPAL**  
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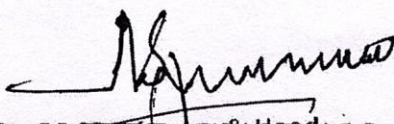


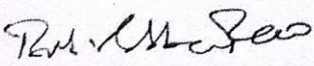
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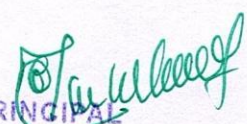
This is to certify that the project entitled "A STUDY ON RECRUITMENT & SELECTION WITH REFERENCE TO 3i INFOTECH" is a bonafide work done by KOTA AKHIL BABU Registered No. 15X41M0005 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of Master of Applied Management in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Master of Applied Management.

  
**Dr. M. VEERA BHADRA RAO**  
**Professor & Project Guide**

  
**Dr. N. SUBRAMANYAM**  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

  
**Mr. B.V.S.S. SUBBA RAO**  
**Project Review Committee**

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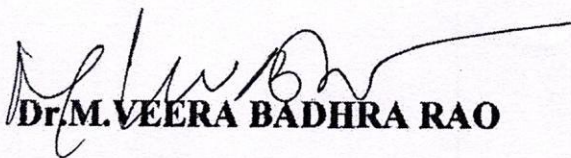
  
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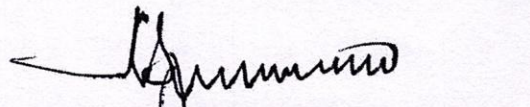
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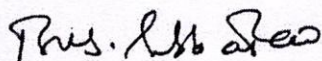
## CERTIFICATE

This is to certify that the project entitled "A STUDY ON TRAINING DEVELOPMENT WITH REFERENCE TO CREAMLINE DAIRY" is a bonafide work done by **MANIL YADAV** Registered No. **15X41M0010** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Applied Management** in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of **Master of Applied Management**.

  
**Dr. M. VEERA BADHRA RAO**

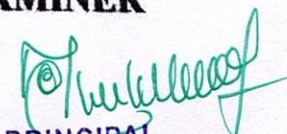
**Professor & Project Guide**

  
**Dr. N. SUBRAMANYAM**  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
**Professor & Head of Department**



**Mr. B.V.S.S. SUBBA RAO**  
**Project Review Committee**

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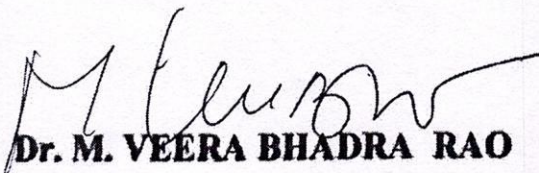
  
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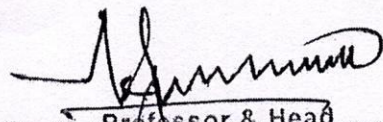


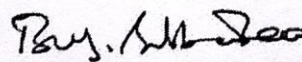
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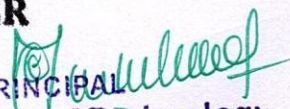
This is to certify that the project entitled “A STUDY ON INCENTIVE MANAGEMENT WITH REFERENCE TO PRAKASAM MILK PRODUCER COMPANY LIMITED” is a bonafide work done by SYED AMJAD HUSSAIN Registered No. 15X41M0014 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **Master of Applied Management** in **S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada**. This work is original and the same has not been submitted previously by any person for the degree of **Master of Applied Management**.

  
**Dr. M. VEERA BHADRA RAO**  
**Professor & Project Guide**

  
**Dr. N. SUBRAMANYAM**  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

  
**Mr. B.V.S.S. SUBBA RAO**  
**Project Review Committee**

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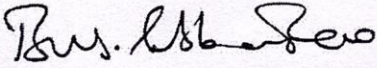
  
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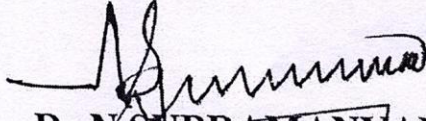


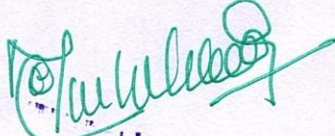
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This is to certify that the Mini project entitled “A STUDY ON EMPLOYEE JOB SATISFACTION WITH REFERENCE TO DELTA PAPER MILLS LTD” is a bonafide work done by AVUTHU JEEVAN KRISHNA REDDY Registered No. 17X41M0001 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of INTEGRATED MBA (Third Year admitted batch of 2017-22) in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Integrated MBA.

  
**Mr. B.V.S.S. SUBBA RAO**  
**Asst. Professor & Project Guide**

  
**Dr. N. SUBRAMANYAM**  
**Professor & Head**  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

  
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**ENIKEPADU, VIJAYAWADA-521 108.**



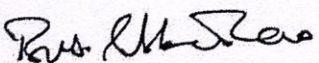
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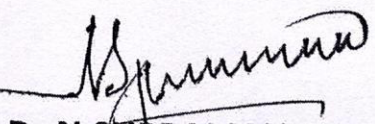
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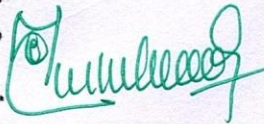
## CERTIFICATE

This is to certify that the Mini project entitled "A STUDY ON RATIO ANALYSIS WITH REFERENCE TO SAI SWARNA HYUNDAI AUTOMOBILES Pvt. Ltd." is a bonafide work done by **BANDI SOWJANYA** Registered No. **17X41M0002** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **INTEGRATED MBA** (Third Year admitted batch of 2017-22) in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Integrated MBA.

  
**Mr. B.V.S.S.SUBBA RAO**  
**Asst. Professor & Project Guide**

  
**Dr.N.SUBRAMANYAM**  
**Professor&Head**  
Professor & Head

Department of Business Administration,  
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Affiliated to JNTU Kakinada  
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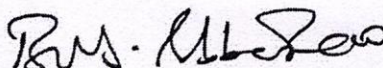
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Enikepadu, Vijayawada – 521 108

## CERTIFICATE

This is to certify that the Mini project entitled “A STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO THE KRISHNA DISTRICT MILK PRODUCERS MUTUALLY AIDED CO-OPERATIVE UNION LIMITED, VIJAYAWADA ” is a bonafide work done by BEVARA MANIKANTA Registered No. 17X41M0003 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **INTEGRATED MBA** (Third Year admitted batch of 2017-22) in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Integrated MBA.

  
Mr. B.V.S.S.SUBBA RAO

Asst. Professor & Project Guide

  
Dr.N.SUBRAMANYAM

Professor & Head

Professor & Head

Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
ENIKEPADU, VIJAYAWADA-521 108.

  
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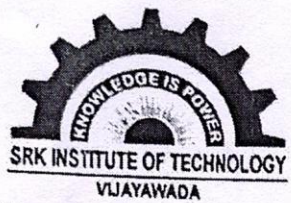
This is to certify that the Mini project entitled "A STUDY ON RECRUITMENT AND SELECTION WITH REFERENCE TO EUREKA FORBES Ltd.," is a bonafide work done by GANJI RUTHVIK Registered No. 17X41M0006 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of INTEGRATED MBA (Third Year admitted batch of 2017-22) in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Integrated MBA.

Mr. B.V.S.S.SUBBA RAO  
Asst. Professor & Project Guide

Dr.N.SUBRAMANYAM  
Professor & Head

Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
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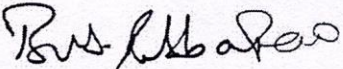
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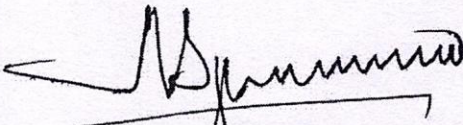


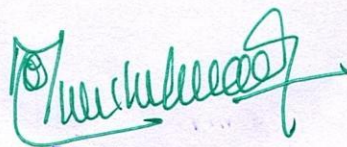
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**CERTIFICATE**

This is to certify that the Mini project entitled “A STUDY ON TRAINING AND DEVELOPMENT WITH REFERENCE TO DELTA PAPER MILLS LIMITED” is a bonafide work done by GORANTLA KESAVA Registered No. 17X41M0007 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of INTEGRATED MBA (Third Year admitted batch of 2017-22) in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Integrated MBA.

  
**Mr. B.V.S.S.SUBBA RAO**  
**Asst. Professor & Project Guide**

  
**Dr.N.SUBRAMANYAM**  
**Professor & Head**  
Professor & Head  
Department of Business Administration,  
SRK Institute of Technology,  
Affiliated to JNTU Kakinada  
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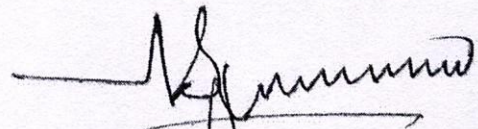


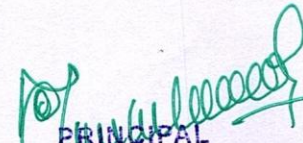
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This is to certify that the Mini project entitled “**A STUDY ON RATIO ANALYSIS WITH REFERENCE TO TRIMAX LIMITED**” is a bonafide work done by **JANYAVULA DURGA PAVANI** Registered No. **17X41M0008** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **INTEGRATED MBA** (Third Year admitted batch of 2017-22) in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Integrated MBA.

  
**Mr. B.V.S.S.SUBBA RAO**  
**Asst. Professor & Project Guide**

  
**Dr.N.SUBRAMANYAM**  
**Professor & Head**  
Professor & Head

  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108.**  
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This is to certify that the Mini project entitled "A STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO SAI SWARNA HYUNDAI AUTOMOBILES Pvt.ltd." is a bonafide work done by **KOTHA KALYANI** Registered No. **17X41M0012** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **INTEGRATED MBA** (Third Year admitted batch of 2017-22) in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Integrated MBA.

*Dr. B.V.S.S. Subba Rao*

**Mr. B.V.S.S.SUBBA RAO** **Dr.N.SUBRAMANYAM**  
**Asst. Professor & Project Guide**

*[Signature]*  
**Professor & Head**

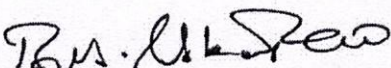
**Professor & Head**  
Department of Business Administration,  
**SRK Institute of Technology**,  
Affiliated to JNTU Kakinada  
**ENIKEPADU, VIJAYAWADA-521 108.**

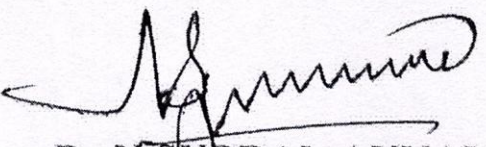


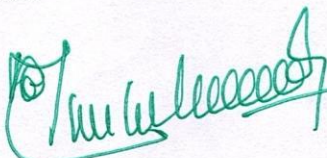
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## CERTIFICATE

This is to certify that the Mini project entitled "A STUDY ON INVENTORY MANAGEMENT WITH REFERENCE TO THE KRISHNA DISTRICT MILK PRODUCERS MUTUALLY AIDED CO-OPERATIVE UNION LIMITED, VIJAYAWADA" is a bonafide work done by SHAIK ALIM MUNNA Registered No. 17X41M0015 under my guidance and supervision in partial fulfillment of the requirement for the award of degree of INTEGRATED MBA (Third Year admitted batch of 2017-22) in S.R.K. Institute of Technology, Enikepadu, Vijayawada, affiliated to Jawaharlal Nehru Technological University, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Integrated MBA.

  
Mr. B.V.S.S.SUBBA RAO  
Asst. Professor & Project Guide

  
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## CERTIFICATE

This is to certify that the Mini project entitled “**A STUDY ON PERFORMANCE ANALYSIS OF MUTUAL FUNDS WITH REFERENCE TO AXIS ASSET MANAGEMENT COMPANY OF INDIA**” is a bonafide work done by **SURANENI PRANEETHA** Registered No. **17X41M0017** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of **INTEGRATED MBA** (Third Year admitted batch of 2017-22) in **S.R.K. Institute of Technology**, Enikepadu, Vijayawada, affiliated to **Jawaharlal Nehru Technological University**, Kakinada. This work is original and the same has not been submitted previously by any person for the degree of Integrated MBA.

**Mr. B.V.S.S.SUBBA RAO**

**Asst. Professor & Project Guide**

**PRINCIPAL**

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