



# VISAKHA

INSTITUTE OF ENGINEERING & TECHNOLOGY  
(Affiliated to JNTUK, Kakinada)  
57<sup>th</sup> Division, Narava, Visakhapatnam  
DIPLOMA | ENGINEERING | MANAGEMENT



Department Of  
**CIVIL**

## DEPARTMENT OF CIVIL ENGINEERING

### LIST OF STUDENTS UNDERTAKING PROJECT WORK

A.Y: 2021 - 2022

GROUP NO	REGD NO	NAME OF THE STUDENT	GUIDE	STUDY ON STRENGTH OF SISSAL FIBER REINFORCED CONCRETE WITH DIFFERENT PERCENTAGE OF FIBER ADDITION
BATCH-1	18521A0106	V.SUDHEER	K.JAGAN	
	186G1A0101	G. SRIKALA		
	196G5A0127	K. HARIKA		
	196G5A0113	CH. SUNIL		
	196G5A0149	P.GANESG GAGAN		

GROUP NO	REGD NO	NAME OF THE STUDENT	GUIDE	DESTRUCTIVE ASSESMENT OF M30 GRADE CONCRETE USING CEMENTINOUS MATERIAL AT DIFFERENT CURING METHODS
BATCH-2	196G5A0119	G. GOWRI	CH.SAIKIRAN	
	196G5A0125	K. MANIBABU		
	196G5A0161	S SIVA LAKSHMI		
	196G5A0157	P.RAMYA		
	196G5A0114	CH. RAMESH		

GROUP NO	REGD NO	NAME OF THE STUDENT	GUIDE	PLANNING,ANALYSIS,DESIGN AND ESTIMATION OF (S+G+3) RESIDENTIAL BUILDING USING STAAD PRO&AUTO CAD
BATCH-3	196G5A0151	P.MEGHANA	S.AVINASH	
	196G5A0153	P. PAVANI		
	196G5A0121	J. RAVI TEJA		
	196G5A0105	B.ANURADHA		
	196G5A0142	M. SATISH		
	196G5A0120	G. TEJA		
	18521A0101	B.PRAVEEN		

GROUP NO	REGD NO	NAME OF THE STUDENT	GUIDE	INVESTIGATION OF USE OF QUARRY DUST AS SUBSTITUTE OF SAND IN CONCRETE MIXES
BATCH-4	196G5A0129	K. BHAGYA SIRISHA	Y.PRIYANK A	
	196G5A0124	K. JYOTHI		
	196G5A0139	M. CHANDRA SEK HAR		
	196G5A0109	B. VINAY KUMAR		
	196G5A0158	S.SAHINI		



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	196G5A0154	P. RAMU		
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GROUP NO	REGD NO	NAME OF THE STUDENT	GUIDE	
BATCH-5	196G5A0144	N. LAYAVARDHAN	CH.SAIKIRAN	STUDY ON THE USE OF GRADED GRAVEL SOIL -BOTTOM ASH/FLY ASH MIXES AS SUB BASE AND BASE COURSE MATERIAL
	196G5A0152	P. HEMA		
	196G5A0148	P. DURGA VENKATESH		
	196G5A0131	K. BHARATHI		
	196G5A0135	K. RAJKUMAR		
	196G5A0150	P.SONENDRA KUMAR		

GROUP NO	REGD NO	NAME OF THE STUDENT	GUIDE	
BATCH-6	196G5A0169	NAZIYA M	P.A.V.KUMAR	BUILDING INFORMATION MODELING USING AUTODESK REVIT
	196G5A0101	A. JAGADESH		
	196G5A0104	A.V.V.SATYA NARAYANA		
	196G5A0134	K. AKKUNAIDU		
	196G5A0163	S.VENKATA RAMYA		

GROUP NO	REGD NO	NAME OF THE STUDENT	GUIDE	
BATCH-7	186G1A0102	M. VARA PRASAD	Y.PRIYANKA	ANALYSIS&DESIGN OF A (G+3)MULTISTORIED RESIDENTIAL BUILDING USING STAAD.PRO
	196G5A0123	J. GANESH		
	196G5A0145	P. SUMITHRA		
	196G5A0160	S. ABDUL RAHIM		
	196G5A0162	S. SRAVANI		
	196G5A0168	V. CHANDRA SEKHAR		

GROUP NO	REGD NO	NAME OF THE STUDENT	GUIDE	
BATCH-8	196G5A0108	B. VENKATA RAMANA	K.JAGAN	STUDY ON STRENGTH BY CHARACTERSTICS BY USING FULLY RECYCLIE COARSE AGGREGATE CONCRETE AT VARIOUS ATMOSPEHIRIC CONDITIONS
	196G5A0118	G. SURESH		
	196G5A0128	K. PRAKASH		
	196G5A0133	K. VAMSI		
	196G5A0140	M. SUSHMA		
	196G5A0147	P.RAMYA SREE		



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GROUP NO	REGD NO	NAME OF THE STUDENT	GUIDE	
BATCH-9	196G5A0112	CH.L.V.S. PRAKASH	P.A.V.KUMAR	AN EXPERIMENTAL STUDY TO INVESTIGATE THE PROPERTIES OF LIGHT WEIGHT CONCRETE
	196G5A0116	D. REDDY		
	196G5A0167	V.GOWRINAIDU		
	196G5A0164	S. HARIKADIVYA		
	196G5A0171	D.ANUSHA		
	196G5A0165	T.VENKATESH		

GROUP NO	REGD NO	NAME OF THE STUDENT	GUIDE	
BATCH-10	196G5A0155	R. JANAKIRAM	CH.SAIKIRAN	INVESTIGATING STRENGTH CHARACTERISTICS OF M20&M30 GRADE CONCRETE USING JHAMMA BRICKS
	196G5A0156	R.SATTIBABU		
	196G5A0110	B.SANTOSH		
	196G5A0170	G.SWATHI		
	196G5A0102	A.RENUKA LAXMI		

GROUP NO	REGD NO	NAME OF THE STUDENT	GUIDE	
BATCH-11	196G5A0122	J.TRINADH	S.AVINASH	BEHAVIOUR OF CONCRETE BY PARTIAL REPLACEMENT OF COARSE AGGREGATE WITH COCONUT SHELLS
	196G5A0115	CH. SATHIBABU		
	196G5A0111	B.VENKATESH		
	196G5A0136	L.GANESH		
	196G5A0117	E.VENKAT SAI		

  
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This is certify that the project report entitled “ANALYSIS AND DESIGN OF A (G+3) MULTISTORIED RESIDENTIAL BUILDING USING STAAD PRO”. submitted by **S. SRAVANI (196G5A0162)**. In partial fulfillment of the requirements for the award of degree of “BACHELOR OF TECHNOLOGY in “CIVIL ENGINEERING” from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by them under our guidance and supervision

  
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**CERTIFICATE**

This is certify that the project report entitled "**INVESTIGATING STRENGTH CHARACTERSTICS OF M20 AND M30 GRADE CONCRETE USING N JAMMA BRICKS**". submitted by **R. JANAKIRAM (196G5A0155)**. In partial fulfillment of the requirements for the award of degree of "**BACHELOR OF TECHNOLOGY** in "**CIVIL ENGINEERING**" from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by them under our guidance and supervision

**PROJECT GUIDE**

**Mr. CH. SAI KIRAN, M.Tech**

Assistant professor

Department of civil engineering

Visakha technical campus

**H.O.D**

**V. BHARGAVI, M.Tech,(Ph.d)**

Head of the department

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**KAKINADA) 57<sup>TH</sup> Division, Narava, Visakhapatnam**



**CERTIFICATE**

This is certify that the project report entitled “**DESTRUCTIVE ASSESSMENT OF M30 GRADE CONCRETE USING CEMENTITIOUS MATERIALS AT DIFFERENT CURING METHODS**”. submitted by **S. SIVA LAXMI(196G5A0161)**. In partial fulfillment of the requirements for the award of degree of “**BACHELOR OF TECHNOLOGY in “CIVIL ENGINEERING”**” from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by them under our guidance and supervision

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## CERTIFICATE

This is certify that the project report entitled “**STUDY ON STRENGTH OF SISAL FIBER REINFORCED CONCRETE WITH DIFFERENT PERCENTAGE OF FIBER ADDITION**”. submitted by **G. SRIKALA (186G1A0101)**. In partial fulfillment of the requirements for the award of degree of “**BACHELOR OF TECHNOLOGY in “CIVIL ENGINEERING”**” from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by them under our guidance and supervision

**PROJECT GUIDE**

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**KAKINADA) 57<sup>TH</sup> Division, Narava, Visakhapatnam**



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This is certify that the project report entitled "**PLANNING, ANALYSIS, DESIGN AND ESTIMATION OD (S+G+3) RESIDENTIAL BUILDING USING STAAD PRO & AUTOCAD**". submitted by **P.MEGHANA (196G5A0151)**. In partial fulfillment of the requirements for the award of degree of "**BACHELOR OF TECHNOLOGY** in "**CIVIL ENGINEERING**" from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by them under our guidance and supervision

**PROJECT GUIDE**

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This is certify that the project report entitled "PLANNING, ANALYSIS, DESIGN AND ESTIMATION OD (S+G+3) RESIDENTIAL BUILDING USING STAAD PRO & AUTOCAD". submitted by B.PRAVEEN(18521A0101). In partial fulfillment of the requirements for the award of degree of "BACHELOR OF TECHNOLOGY in "CIVIL ENGINEERING" from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by them under our guidance and supervision

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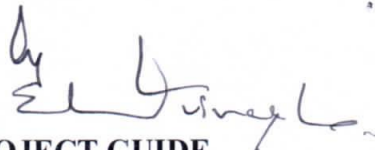
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Head of the department

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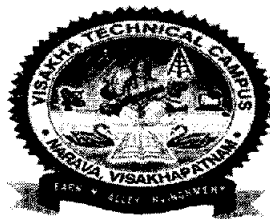
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PROJECT GUIDE

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KAKINADA) 57<sup>TH</sup> Division, Narava, Visakhapatnam



**CERTIFICATE**

This is certify that the project report entitled "ANALYSIS AND DESIGN OF A (G+3) MULTISTORIED RESIDENTIAL BUILDING USING STAAD PRO". submitted by V. CHANDRA SEKHAR (196G5A0168). In partial fulfillment of the requirements for the award of degree of "BACHELOR OF TECHNOLOGY in "CIVIL ENGINEERING" from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by them under our guidance and supervision

**PROJECT GUIDE**

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Assistant professor

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**H.O.D**

**V. BHARGAVI, M.Tech,(Ph.d)**

Head of the department

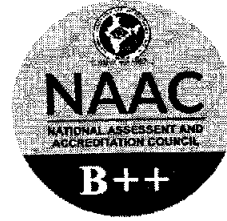
Department of civil engineering

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INSTITUTE OF ENGINEERING & TECHNOLOGY  
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(Affiliated to JNTUK, Kakinada)  
57<sup>th</sup> Division, GVMC, Narava, Visakhapatnam  
DIPLOMA | ENGINEERING DIPLOMA | ENGINEERING



COLLEGE CODE  
**VSPT**

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

LIST OF STUDENTS UNDERTAKING PROJECT WORK

A.Y: 2021 - 2022

BATCH NO.	HALL TICKET	NAME OF THE STUDENT	PROJECT TITLE
1	19NT5A0204	A.HARI BABU	MONITORING AND CONTROLLING OF INDUCTION MOTORS USING PLC AND DRIVE
	19NT5A0226	K.GANESH SWAMI	
	19NT5A0257	T.KISHORE	
	19NT5A0220	G.SUJINI	
2	19NT5A0252	S.HARIOM	SPEED CONTROLL OF DC SERVO MOTOR USING CONVENTIONAL CONTROLLERS
	19NT5A0262	V.PAVAN KUMAR	
	19NT5A0227	K.VAMSI NAIDU	
	19NT5A0210	C.H NAVEEN	
	19NT5A0235	M.SAI KIRAN	
3	18NT1A0204	P.PAVAN	COMPARATIVE SMART HOME AUTOMATION TECHNOLOGY
	19NT5A0221	G.SAI	
	19NT5A0239	M.HEMANTH KUMAR	
	19NT5A0225	J.JAGADESH KUMAR	

4	19NT5A0241	V.JINETH	MODELLING OF WIND ENERGY SYSTEM WITH MPPT CONTROL USING MATLAB SIMULINK
	18NT1A0202	D.DEVI HARSHA VARDHAN	
	19NT5A0255	D.GANESH PRASAD	
	19NT5A0242	M.BHANU CHANDRA NAIDU	
	19NT5A0211	D.ROHIT TARUN SAI	
5	19NT5A0230	K.MANASA	COMPARITIVE STUDY OF TWO AREA LOAD FREQUENCY CONTROL WITH DIFFERENT CONVENTIONAL CONTROLLERS
	19NT5A0208	B.MOHAN KUMAR	
	19NT5A0207	B.SURJITH	
	19NT5A0202	A.PRAKASH	
6	19NT5A0231	K.TEJESWARRAO	STATCOM BASED POWER QUALITY IMPROVEMENT OF GRID TIED PV WIND POWER SYSTEM WITH HYBRID CONTROLLER
	19NT5A0246	P.SUBASH	
	19NT5A0223	K.JAGADESH	
	19NT5A0247	P.BHAGYA LAKSHMI	
7	19NT5A0213	D.SWATHI	ZETA CONVERTOR BASED SIMULATION MODEL FOR BLDC MOTOR FED WATER PUMPING SYSTEM
	19NT5A0201	A.SRINIVAS	
	19NT5A0254	G.PREETHI	
	19NT5A0232	K.BHARGAV	
	19NT5A0258	V.PREETHI	

8	19NT5A0214	D.PRUDHVI	BATTERY ENERGY STORAGE SYSTEM FOR LOAD FREQUENCY CONTROLL OF POWER SYSTEM
	19NT5A0240	M.D MISHKEENVALI	
	19NT5A0201	DEEPAK CHAKRAVARTHI	
	19NT5A0247	N.JYOTHISH KUMAR	
9	19NT5A0236	SM.SHYAM SUNDAR RAO	ANALYSIS OF SERIES PARALLEL CONFIGURE SEVEN LEVEL INVERTOR POWERED BY PHOTOVOLTAIC CELL USING REVERSE VOLTAGE TECHNIQUE
	19NT5A0222	G.MOHAN KRISHNA	
	19NT5A0244	N.SRIHARI	
	19NT5A0261	V.PADMA	
	19NT5A0237	M.LAVANYA	
10	19NT5A0218	G.SAI LAXMI	SOLAR PV BASED MULTI LEVEL INVERTOR FOR VLDC MOTOR DRIVE
	19NT5A0248	P.RANJIT	
	19NT5A0217	G.MANASA	
	19NT5A0219	G.VENU	

  
HOD

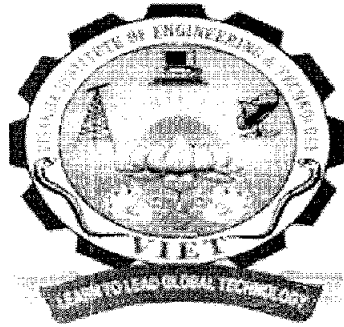
  
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**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

**88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**

**2021-2022**



## **CERTIFICATE**

This is to certify that the Project report entitled **“SOLAR PV BASED MULTI LEVEL INVERTER FOR BLDC MOTOR DRIVE”** is being submitted by **G.SAILAKSHMI (19NT5A0218)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

Signature of the Guide  
T Santhosh M.Tech  
(Assistant Professor)

Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

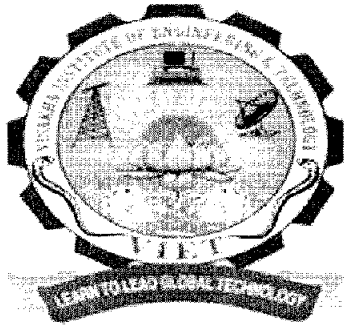
**External Examiner**

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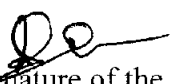
**2021-2022**




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T Santhosh M.Tech  
(Assistant Professor)

  
Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

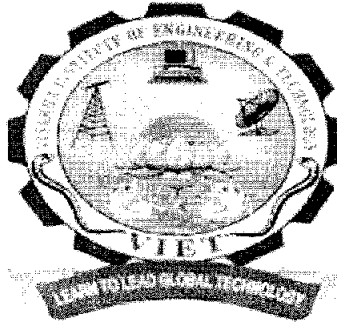
**External Examiner**

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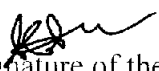
**2021-2022**

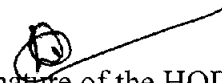


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Signature of the Guide  
T. Santhosh M.Tech  
(Assistant Professor)

  
Signature of the HOD  
K. S. B. VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

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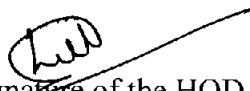


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This is to certify that the Project report entitled “**SOLAR PV BASED MULTI LEVEL INVERTER FOR BLDC MOTOR DRIVE**” is being submitted by **G.VENU (19NT5A0219)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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T Santhosh M.Tech  
(Assistant Professor)

  
Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**



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**2021-2022**



## **CERTIFICATE**

This is to certify that the Project report entitled “**SOLAR PV BASED MULTI LEVEL INVERTER FOR BLDC MOTOR DRIVE**” is being submitted by **V.VIJAY KUMAR (19NT5A0260)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the HOD  
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(Assistant Professor)

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**2021-2022**




## **CERTIFICATE**

This is to certify that the Project report entitled “**ANALYSIS OF SERIES-PARALLEL CONFIGURED 7-LEVEL INVERTER POWERED BY PHOTOVOLTAIC CELL USING REVERSE VOLTAGE TECHNIQUE**” is being submitted by **Mr. MSYAM SUNDHAR RAO(19NT5A0236)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
T SREENU M.Tech  
(Assistant Professor)

  
Signature of the HOD  
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(Assistant Professor)

**External Examiner**

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**88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**


**2021-2022**

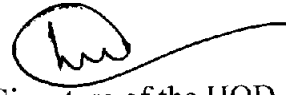


## **CERTIFICATE**

This is to certify that the Project report entitled **“ANALYSIS OF SERIES-PARALLEL CONFIGURED 7-LEVEL INVERTER POWERED BY PHOTOVOLTAIC CELL USING REVERSE VOLTAGE TECHNIQUE”** is being submitted by **Mr. G. MOHAN KRISHNA(19NT5A0222)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the Guide  
T SREENU M.Tech  
(Assistant Professor)

  
Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

**88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**


**2021-2022**




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Signature of the Guide  
T SREENU M.Tech  
(Assistant Professor)

  
Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

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Signature of the Guide  
T SREENU M.Tech  
(Assistant Professor)

  
Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

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Signature of the Guide  
T SREENU M.Tech  
(Assistant Professor)

Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**  
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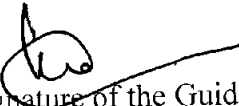
**2021-2022**

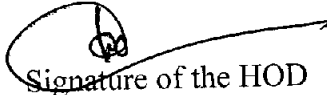


**CERTIFICATE**

This is to certify that the Project report entitled **“BATTERY ENERGY STORAGE SYSTEM FOR LOAD FREQUENCY CONTROL OF POWER SYSTEM”** is being submitted by **Mr. D. PRUDHVI (19NT5A0214)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

  
Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
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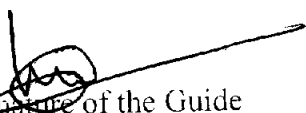
**2021-2022**

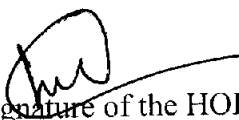


**CERTIFICATE**

This is to certify that the Project report entitled **“BATTERY ENERGY STORAGE SYSTEM FOR LOAD FREQUENCY CONTROL OF POWER SYSTEM”** is being submitted by **Mr.MD.MISHKEENVALI (19NT5A0240)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

  
Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

**88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**


**2021-2022**




## **CERTIFICATE**

This is to certify that the Project report entitled “**BATTERY ENERGY STORAGE SYSTEM FOR LOAD FREQUENCY CONTROL OF POWER SYSTEM**” is being submitted by **Mr. DEEPAK CHAKRAVARTHY (19NT5A0201)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

  
Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

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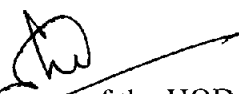


## **CERTIFICATE**

This is to certify that the Project report entitled “**BATTERY ENERGY STORAGE SYSTEM FOR LOAD FREQUENCY CONTROL OF POWER SYSTEM**” is being submitted by **Mr. N. JYOTHISH KUMAR (19NT5A0247)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

  
Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

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**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

**88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**

**2021-2022**



## **CERTIFICATE**

This is to certify that the Project report entitled “**ZETA CONVERTER BASED SIMULATION MODEL FOR BLDC MOTOR FED WATER PUMPING SYSTEM**”, being submitted by **Ms. D.SWATHI (19NT5A0213)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,  
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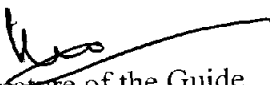
2021-2022




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This is to certify that the Project report entitled “**ZETA CONVERTER BASED SIMULATION MODEL FOR BLDC MOTOR FED WATER PUMPING SYSTEM**”, being submitted by **Mr.A.SRINIVAS (19NT5A0201)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

  
Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
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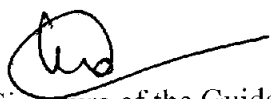
**2021-2022**



**CERTIFICATE**

This is to certify that the Project report entitled “**ZETA CONVERTER BASED SIMULATION MODEL FOR BLDC MOTOR FED WATER PUMPING SYSTEM**”, being submitted by **Ms.PREETHI (19NT5A0254)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)



Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

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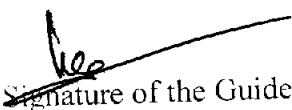
2021-2022

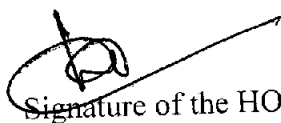


## CERTIFICATE

This is to certify that the Project report entitled “**ZETA CONVERTER BASED SIMULATION MODEL FOR BLDC MOTOR FED WATER PUMPING SYSTEM**”, being submitted by **Mr.K.BHARGAV (19NT5A0232)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

  
Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**  
**88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**


**2021-2022**




**CERTIFICATE**

This is to certify that the Project report entitled **“BATTERY ENERGY STORAGE SYSTEM FOR LOAD FREQUENCY CONTROL OF POWER SYSTEM”** is being submitted by **Ms. V. PREETHI (19NT5A0258)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

  
Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

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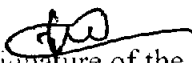
**2021-2022**

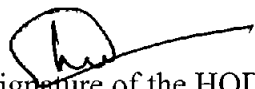


## **CERTIFICATE**

This is to certify that the Project report entitled “**STATCOM BASED POWER QUALITY IMPROVEMENT OF GRID TIED PV-WIND POWER SYSTEM WITH HYBRID CONTROLLER**” is being submitted by **Mr. K TEJESWARA RAO (19NT5A0231)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

  
Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

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**2021-2022**




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Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

  
Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

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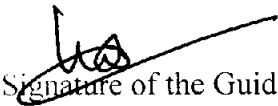
**2021-2022**




## **CERTIFICATE**

This is to certify that the Project report entitled “**STATCOM BASED POWER QUALITY IMPROVEMENT OF GRID TIED PV-WIND POWER SYSTEM WITH HYBRID CONTROLLER**” is being submitted by **Mr.K JAGADEESH KUMAR (19NT5A0223)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

  
Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

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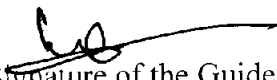
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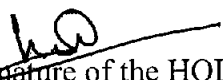


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This is to certify that the Project report entitled “**STATCOM BASED POWER QUALITY IMPROVEMENT OF GRID TIED PV-WIND POWER SYSTEM WITH HYBRID CONTROLLER**” is being submitted by **Ms.P BHAGYA LAKSHMI (19NT5A0247)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

  
Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

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**2021-2022**

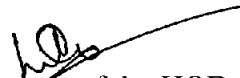


## **CERTIFICATE**

This is to certify that the Project report entitled “**COMPARATIVE STUDY OF TWO AREA LOAD FREQUENCY CONTROL WITH DIFFERENT CONVENTIONAL CONTROLLERS**” is being submitted by **Ms. K MANASA (19NT5A0230)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
**R. MAHALAKSHMI M.Tech**  
(Assistant Professor)

  
Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

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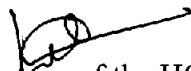


## **CERTIFICATE**

This is to certify that the Project report entitled “**COMPARATIVE STUDY OF TWO AREA LOAD FREQUENCY CONTROL WITH DIFFERENT CONVENTIONAL CONTROLLERS**” is being submitted by **Mr. B MOHAN KUMAR (19NT5A0208)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
R MAHALAKSHMI M.Tech  
(Assistant Professor)

  
Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

**88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**

**2021-2022**



**CERTIFICATE**

This is to certify that the Project report entitled “**COMPARATIVE STUDY OF TWO AREA LOAD FREQUENCY CONTROL WITH DIFFERENT CONVENTIONAL CONTROLLERS**” is being submitted by **B SURJITH (19NT5A0207)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

Signature of the Guide  
**R MAHALAKSHMI M.Tech**  
(Assistant Professor)

Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

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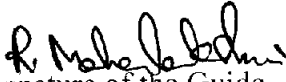
**2021-2022**




## **CERTIFICATE**

This is to certify that the Project report entitled “**COMPARATIVE STUDY OF TWO AREA LOAD FREQUENCY CONTROL WITH DIFFERENT CONVENTIONAL CONTROLLERS**” is being submitted by **A PRAKASH (19NT5A0202)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the Guide  
**R MAHALAKSHMI M.Tech**  
(Assistant Professor)

  
Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**  
**88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**

**2021-2022**



**CERTIFICATE**

This is to certify that the Project report entitled “**MODELING OF WIND ENERGY SYSTEM WITH MPPT CONTROL USING MATLAB SIMULINK**” is being submitted by **M.S.V.JINETH(19NT5A0241)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

**88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**

**2021-2022**



## **CERTIFICATE**

This is to certify that the Project report entitled **“MODELING OF WIND ENERGY SYSTEM WITH MPPT CONTROL USING MATLAB SIMULINK”** is being submitted by **D.DEVI HARSHA VARDAN(18NT1A0202)**, in partial fulfillment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

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**2021-2022**



## **CERTIFICATE**

This is to certify that the Project report entitled **“MODELING OF WIND ENERGY SYSTEM WITH MPPT CONTROL USING MATLAB SIMULINK”** is being submitted by **S.D.GANESHPRASAD (19NT5A0255)** in partial fulfilment for the award of **B.Tech** in **Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

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**2021-2022**



## **CERTIFICATE**

This is to certify that the Project report entitled **“MODELING OF WIND ENERGY SYSTEM WITH MPPT CONTROL USING MATLAB SIMULINK”** is being submitted by **M.BHANU CHANDRA NAIDU (19NT5A0242)** in partial fulfillment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

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**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**  
**88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**

**2021-2022**



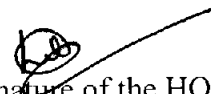
**CERTIFICATE**

This is to certify that the Project report entitled **“MODELING OF WIND ENERGY SYSTEM WITH MPPT CONTROL USING MATLAB SIMULINK”** is being submitted by **D.ROHIT TARUNSAI(19NT5A0211)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
K. S. B. VARAPRASAD M.Tech  
(Assistant Professor)



Signature of the HOD  
K. S. B. VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

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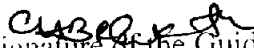
2021-2022

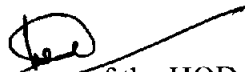


**CERTIFICATE**

This is to certify that the Project report entitled “**COMPARATIVE SMART HOME AUTOMATION TECHNOLOGY**” is being submitted by **Mr.PAILA PAVAN (18NT1A0204)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
CH B R SRIKANTH M.Tech (Ph.D)  
(Assistant Professor)

  
Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

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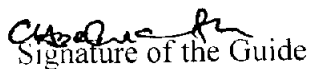
**2021-2022**



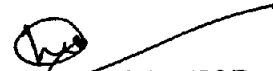
**CERTIFICATE**

This is to certify that the Project report entitled “**COMPARATIVE SMART HOME AUTOMATION TECHNOLOGY**” is being submitted by **Mr.G.SAI (19NT5A0221)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide

**CH B R SRIKANTH M.Tech (Ph.D)**  
(Assistant Professor)



Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

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**88th DIVISION GVMC, NARAVA, VISAKHAPATNAM - 530027**


**2021-2022**




## **CERTIFICATE**

This is to certify that the Project report entitled “**COMPARATIVE SMART HOME AUTOMATION TECHNOLOGY**” is being submitted by **Mr.M.HEMANTH KUMAR(19NT5A0239)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide  
CH B R SRIKANTH M.Tech (Ph.D)  
(Assistant Professor)

  
Signature of the HOD  
K S B VARAPRASAD M.Tech  
(Assistant Professor)

**External Examiner**

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**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

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**2021-2022**

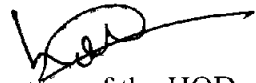


## **CERTIFICATE**

This is to certify that the Project report entitled “**COMPARATIVE SMART HOME AUTOMATION TECHNOLOGY**” is being submitted by **Mr JAGADISH KUMAR(19NT5A0225)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the Guide  
**CH B R SRIKANTH M.Tech (Ph.D)**  
(Assistant Professor)

  
Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**




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VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,  
57<sup>th</sup> Division GVMC, NARAVA, VISAKHAPATNAM-530027**




**CERTIFICATE**

This is to certify that the project report entitled "**SPEED CONTROL OF DC SERVO MOTOR USING CONVENTIONAL CONTROLLERS**" is being submitted by **S.HARIOM (19NT5A0252)** in partial fulfilment for the award of B.Tech in **ELECTRICAL AND ELECTRONICS ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

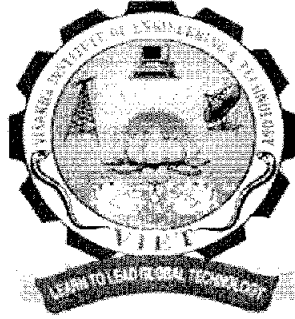
The results embodied in this project report have not been submitted to any other university or institute for the award of the degree.

  
Signature of the Guide  
Mr. T. SANTHOSH M.Tech  
(ASSISTANT PROFESSOR)

  
Signature of the HOD  
Mr. K S B. VARAPRASAD  
(ASSISTANT PROFESSOR)

**External Examiner**

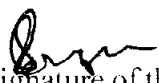
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**  
**57<sup>th</sup> Division GVMC, NARAVA, VISAKHAPATNAM-530027**




**CERTIFICATE**

This is to certify that the project report entitled "**SPEED CONTROL OF DC SERVO MOTOR USING CONVENTIONAL CONTROLLERS**" is being submitted by **,V.PAVAN KUMAR (19NT5A0262)**, in partial fulfilment for the award of B.Tech in **ELECTRICAL AND ELECTRONICS ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

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Signature of the Guide  
Mr. T. SANTHOSH M.Tech  
(ASSISTANT PROFESSOR)

  
Signature of the HOD  
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(ASSISTANT PROFESSOR)

**External Examiner**


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**57<sup>th</sup> Division GVMC, NARAVA, VISAKHAPATNAM-530027**

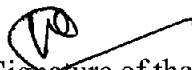


**CERTIFICATE**

This is to certify that the project report entitled "**SPEED CONTROL OF DC SERVO MOTOR USING CONVENTIONAL CONTROLLERS**" is being submitted by **K. VAMSI NAIDU(19NT5A0227)** in partial fulfilment for the award of B.Tech in **ELECTRICAL AND ELECTRONICS ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

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Signature of the Guide  
Mr.T.SANTHOSH M.Tech  
(ASSISTANT PROFESSOR)

  
Signature of the HOD  
Mr. K S B.VARAPRASAD  
(ASSISTANT PROFESSOR)

**External Examiner**

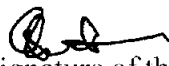
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,  
57<sup>th</sup> Division GVMC, NARAVA, VISAKHAPATNAM-530027**



**CERTIFICATE**

This is to certify that the project report entitled "**SPEED CONTROL OF DC SERVO MOTOR USING CONVENTIONAL CONTROLLERS**" is being submitted by **CH.NAVEEN(19NT5A0210)** in partial fulfilment for the award of B.Tech in **ELECTRICAL AND ELECTRONICS ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

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Signature of the Guide

Mr.T.SANTHOSH M.Tech

(ASSISTANT PROFESSOR)



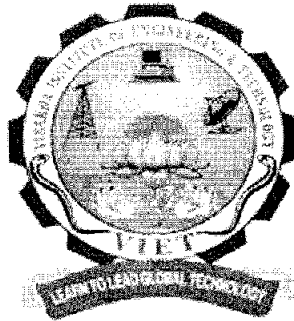
Signature of the HOD

Mr. K S B.VARAPRASAD

(ASSISTANT PROFESSOR)

**External Examiner**

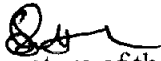
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**  
**57<sup>th</sup> Division GVMC, NARAVA, VISAKHAPATNAM-530027**




**CERTIFICATE**

This is to certify that the project report entitled "**SPEED CONTROL OF DC SERVO MOTOR USING CONVENTIONAL CONTROLLERS**" is being submitted by **M.SAIKIRAN (19NT5A0235)** in partial fulfilment for the award of B.Tech in **ELECTRICAL AND ELECTRONICS ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

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Signature of the Guide  
Mr. T. SANTHOSH M.Tech  
(ASSISTANT PROFESSOR)

  
Signature of the HOD  
Mr. K S B. VARAPRASAD  
(ASSISTANT PROFESSOR)

**External Examiner**

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**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

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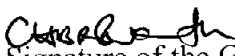
**2021-2022**



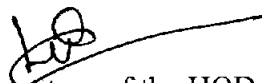
## **CERTIFICATE**

This is to certify that the Project report entitled “**MONITORING AND CONTROLLING OF INDUCTION MOTOR USING PLC AND DRIVE**” is being submitted by **Mr.A.HARIBABU (19NT5A0204)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide

**C H B R SRIKANTH M.Tech (Ph.D)**  
(Assistant Professor)

  
Signature of the HOD

**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

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**2021-2022**



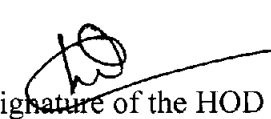
**CERTIFICATE**

This is to certify that the Project report entitled “**MONITORING AND CONTROLLING OF INDUCTION MOTOR USING PLC AND DRIVE**” is being submitted by **K.GANESH SWAMI KUMAR (19NT5A0226)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide

**CH B R SRIKANTH M.Tech (Ph.D)**  
(Assistant Professor)

  
Signature of the HOD

**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

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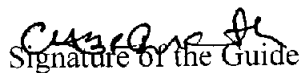
**2021-2022**




## **CERTIFICATE**

This is to certify that the Project report entitled “**MONITORING AND CONTROLLING OF INDUCTION MOTOR USING PLC AND DRIVE**” is being submitted by **T.KISHORE (19NT5A0257)**, in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide

**CH B R SRIKANTH M.Tech (Ph.D)**  
(Assistant Professor)

  
Signature of the HOD

**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**



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**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY,**

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**2021-2022**



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This is to certify that the Project report entitled “**MONITORING AND CONTROLLING OF INDUCTION MOTOR USING PLC AND DRIVE**” is being submitted by **Ms.G.SUJINI (19NT5A0220)** in partial fulfilment for the award of **B.Tech in Electrical and Electronics Engineering** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the Guide

**CH B R SRIKANTH M.Tech (Ph.D)**  
(Assistant Professor)



Signature of the HOD  
**K S B VARAPRASAD M.Tech**  
(Assistant Professor)

**External Examiner**

## VIET MECHANICAL PROJECT DETAILS

Sl.No	Batch No	Team Members Roll No	Team Members Names	Guide	Project Title
1	1	18NT1A0308	GANAPATHIRAJU SUMANTH VARMA	K. JAGADE SWARA RAO	INVESTIGATION OF MECHANICAL PROPERTIES OF A POLYMER MATRIX COMPOSITE REINFORCED WITH FOXTAIL PALM SEEDS POWDER
2		18NT1A0320	SIDDA VINOD KUMAR		
3		18NT1A0321	SINGAMPALLI RAVI KUMAR		
4		18NT1A0324	TEELLA CHAITANYA KUMAR		
5		19NT5A0365	PEDAPATI SRIKANTH		
6		19NT5A0374	SEERAPU RUPA ANANDA KRISHNA REDDY		
7	2	18NT1A0313	MUDAPAKA SRIKANTH	Dr.TIRLA NGI SATYAN ARAYANA	MECHANICAL BEHAVIOUR OF SIMILAR METALS FOR SS316 & INCONEL 617 USING TIG
8		19NT5A0388	VAMSI SALADI		
9		18NT1A0301	BAINABELLI MANIKANTA		
10		19NT5A0338	KASIMAHANATHI V S SARASHCHANDRA		
11		19NT5A0349	MERUGU RAJA RAO		
12	3	18NT1A0318	SEERAPU DHARMA TEJA	Dr.V.SRI DHAR PATNAIK	DESIGN AND FABRICATION OF SOLAR POWERED LAWNMOVERS
13		18NT1A0315	MYLAPILLI RAJU		
14		19NT5A0383	THATIPUDI CHANDRA SEKHAR		
15		18NT1A0302	BAINUBELLI DILEEP		
16		19NT5A0335	KANDREGULA SAI CHARAN		
17		19NT5A0314	DADI ARUNKUMAR		
18	4	19NT5A0308	BHOGI SRIKANTH	ALLA MURALI KRISHNA	AERODYNAMIC ANALYSIS ON CARS WITH VORTEX GENERATORS USING CFD
19		19NT5A0304	ANGA VINAY		
20		19NT5A0339	KOLLI SRINIVAS		
21		19NT5A0379	SURLA GOVINDA		
22		19NT5A0357	MUDILI DORABABU		
23	5	19NT5A0309	BONU KIRAN KUMAR	KORLA CHANDANA	INVESTIGATION OF THERMAL PROPERTIES OF A POLYMER MATRIX COMPOSITE REINFORCED WITH FOXTAIL PALM SEEDS POWDER
24		19NT5A0369	PYLA SRI RAMA MURTHY NAIDU		
25		19NT5A0306	BALIREDDY JITENDRA		
26		18NT1A0309	KAMMILA SAI PAVAN KUMAR		
27		18NT1A0304	BATTULA GANGA VENKATA VARA PRASAD		
28	6	19NT5A0310	CHIPPALA MANOHAR SAI	DOKALA DEMUDU NAIDU	DESIGN AND ANALYSIS OF ENGINE FINS
29		19NT5A0375	SIRAGAM DILEEPKUMAR		
30		19NT5A0390	VEERLA BALAJI		
31		19NT5A0394	YERIPILLI RAM BABU		
32		19NT5A0302	ANAPARTHI VINAY		
33	7	19NT5A0311	CHITIKELA LAVANYA	GONDI SIVA KARUNA	INVESTIGATIONS OF SUITABILITY OF WALLNUT SHELL POWDER AND PISTA SHELL POWDER AS AN ALTERNATIVE ADDITIVE IN SYNTHETIC GREEN SAND
34		19NT5A0364	PEDANAYUNI VIJAY		
35		18NT1A0317	PENKE TARUN AKSHAY		

73		19NT5A0368	PRASHANTH BISAI		
74		19NT5A0386	VADISALA SAISASIDHAR	KANTE RAVIND RA	SOLAR POWERED MULTY PURPOSE MACHINE FOR AGRICULTURAL USE
75		19NT5A0333	KAKI KESAVA REDDY		
76	15	19NT5A0373	SARIPALLI GANGADHAR		
77		18NT1A0322	SOMIREDDI PHANEENDRA		
78		19NT5A0307	BANKA NAGA RAJU		
79		19NT5A0387	VADRA MADHU BHARGAV	ATILLI NAREND RA KUMAR	DESIGN ANALYSIS OF PISTON ENGINE
80		19NT5A0371	RAVADA DHANARAJU KUMAR		
81		19NT5A0380	TADI VAMSI		
82	16	18NT1A0323	TAMADA RAVI		
83		19NT5A0305	APALABATHULA PRASAD		
84		19NT5A0389	VASA JAIDEEP REDDY	Dr.TIRLA NGI SATYAN ARAYAN A	INVESTIGATION OF SIMILAR AND DISSIMILAR JOINTS OF STAINLESS STEEL WITH TIG AND MIG WELDED
85	17	19NT5A0385	UPPARI VENUGOPAL		
86		19NT5A0324	GOLAGANI KRISHNA		
87		19NT5A0331	IROTHI HARI KRISHNA		
88		19NT5A0366	PILLA RAVI KUMAR		
89		19525A0309	BOTCHA KIRAN KUMAR	CHITIM MIREDDI VEERU NANIDU	DESIGN AND FABRICATION OF EARTH TUBE HEAT EXCHANGER
90		18521A0308	GORISIPATI LOKESH		
91	18	18521A0315	RAKESH RANJAN		
92		19525A0303	AVUDURI YASWANTH		
93		19525A0308	BODDETI ANANTH		
94		19525A0354	POTHALA ARAVINDH		
95		19525A0341	MOHMMEED KHAJA	DOKALA DEMUDU NAIDU	STRUCTURAL AND THERMAL ANALYSIS OF DISC BREAK ROTAR
96		19525A0310	BUDIDA.S.R.C.MURTHY KUMAR		
97	19	19525A0319	G.A.NARASIMHA REDDY		
98		19525A0322	IJJAVARAPU VENU MADHAV		
99		19525A0327	KAVALI LOKESH		
100		19525A0348	PENAGANTI NAVEEN	GONDI. SIVA KARUNA	INVESTIGATION OF MECHANICAL PROPERTIES ON POLYMER MATRIX COMPOSITE REINFORCED WITH BAGASSE PARTICULATE AND JUTE FIBER
101		18521A0303	BOKAM VAMSI		
102	20	19525A0355	POTHALA BANGARU NAIDU		
103		19525A0360	RAVI SHANKAR		
104		19525A0362	SIRISIPALLI UPENDRA		
105		17525A0308	BEESETTI PAVAN KALYAN		
106		19525A0371	YAGATI DELEEP KUMAR	CHITTIB OYINA KIRAN KUMAR	MULTY DIRECTIONAL DUMPING SYSTEM
107		19525A0344	JAGADEESH NAIGAPULA		
108	21	19525A0367	VANAPALLI BHANU CHANDU		
109		19525A0374	YELISETTI MADHANMOHAN		
110		19525A0375	YERRA GOVINDA		
111		19525A0377	GADAGAMMA SASI BHUSHANA RAO		

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This is to certify that the project report entitled '**DESIGN AND FABRICATION OF SOLAR POWERED LAWNMOVERS**' is being submitted by

**SEERAPU DHARMA TEJA**

**18NT1A0318**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

Project guide

Head of the Department



External Examiner

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This is to certify that the project report entitled '**DESIGN AND FABRICATION OF SOLAR POWERED LAWNMOVERS**' is being submitted by

**MYLAPILLI RAJU**

**18NT1A0315**

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The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

A handwritten signature in blue ink, appearing to be 'D. V. S.', is written above the text 'Project guide'.

Project guide

A handwritten signature in blue ink, appearing to be 'C. S. S. S.', is written above the text 'Head of the Department'.

Head of the Department

External Examiner

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**THATIPUDI CHANDRA SEKHAR**

**19NT5A0383**

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Head of the Department

External Examiner

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This is to certify that the project report entitled '**DESIGN AND FABRICATION OF SOLAR POWERED LAWNMOVERS**' is being submitted by

**BAINUBELLI DILEEP**

**18NT1A0302**

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**KANDREGULA SAI CHARAN**

**19NT5A0335**

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**DADI ARUNKUMAR**

**19NT5A0314**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**STRUCTURAL AND THERMAL ANALYSIS OF DISC BREAK ROTAR**' is being submitted by

**MOHMMED KHAJA**

**19525A0341**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**STRUCTURAL AND THERMAL ANALYSIS OF DISC BREAK ROTAR**' is being submitted by

**BUDIDA.S.R.C.MURTHY KUMAR**

**19525A0310**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**STRUCTURAL AND THERMAL ANALYSIS OF DISC BREAK ROTAR**' is being submitted by

**G.A.NARASIMHA REDDY**

**19525A0319**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**STRUCTURAL AND THERMAL ANALYSIS OF DISC BREAK ROTAR**' is being submitted by

**IJJAVARAPU VENU MADHAV**

**19525A0322**

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This is to certify that the project report entitled '**STRUCTURAL AND THERMAL ANALYSIS OF DISC BREAK ROTAR**' is being submitted by

**KAVALI LOKESH**

**19525A0327**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**INVESTIGATION OF SIMILAR AND DISSIMILAR JOINTS OF STAINLESS STEEL WITH TIG AND MIG WELDED**' is being submitted by

**VASA JAIDEEP REDDY**

**19NT5A0389**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

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**UPPARI VENUGOPAL**

**19NT5A0385**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**GOLAGANI KRISHNA**

**19NT5A0324**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**IROTHI HARI KRISHNA**

**19NT5A0331**

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This is to certify that the project report entitled '**INVESTIGATION OF SIMILAR AND DISSIMILAR JOINTS OF STAINLESS STEEL WITH TIG AND MIG WELDED**' is being submitted by

**PILLA RAVI KUMAR**

**19NT5A0366**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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This is to certify that the project report entitled '**DESIGN AND FABRICATION OF EARTH TUBE HEAT EXCHANGER**' is being submitted by

**BOTCHA KIRAN KUMAR**

**19525A0309**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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This is to certify that the project report entitled '**DESIGN AND FABRICATION OF EARTH TUBE HEAT EXCHANGER**' is being submitted by

**GORISIPATI LOKESH**

**18521A0308**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**RAKESH RANJAN**

**18521A0315**

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**AVUDURI YASWANTH**

**19525A0303**

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**BODDETI ANANTH**

**19525A0308**

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**POTHALA ARAVINDH**

**19525A0354**

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This is to certify that the project report entitled '**INVESTIGATION OF MECHANICAL PROPERTIES ON POLYMER MATRIX COMPOSITE REINFORCED WITH BAGASSE PARTICULATE AND JUTE FIBER**' is being submitted by

**PENAGANTI NAVEEN**

**19525A0348**

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**BOKAM VAMSI**

**18521A0303**

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**POTHALA BANGARU NAIDU**

**19525A0355**

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Head of the Department

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**RAVI SHANKAR**

**19525A0360**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**SIRISIPALLI UPENDRA**

**19525A0362**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**BEESETTI PAVAN KALYAN**

**17525A0308**

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*G. S. Lakshman*  
Head of the Department

External Examiner



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**CERTIFICATE**

This is to certify that the project report entitled '**MULTY DIRECTIONAL DUMPING SYSTEM**' is being submitted by

**YAGATI DELEEP KUMAR**

**19525A0371**

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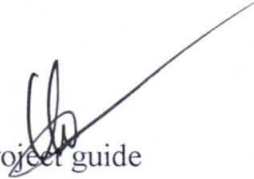
This is to certify that the project report entitled '**MULTY DIRECTIONAL DUMPING SYSTEM**' is being submitted by

**JAGADEESH NAIGAPULA**

**19525A0344**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

  
Project guide

  
Head of the Department

External Examiner

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada, Accredited to NAAC)

**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



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This is to certify that the project report entitled '**MULTY DIRECTIONAL DUMPING SYSTEM**' is being submitted by

**VANAPALLI BHANU CHANDU**

**19525A0367**

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This is to certify that the project report entitled '**MULTY DIRECTIONAL DUMPING SYSTEM**' is being submitted by

**YELISETTI MADHANMOHAN**

**19525A0374**

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This is to certify that the project report entitled '**MULTY DIRECTIONAL DUMPING SYSTEM**' is being submitted by

**YERRA GOVINDA**

**19525A0375**

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This is to certify that the project report entitled '**MULTY DIRECTIONAL DUMPING SYSTEM**' is being submitted by


**GADAGAMMA SASI BHUSHANA RAO**

**19525A0377**

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**CERTIFICATE**

This is to certify that the project report entitled '**INVESTIGATION OF MECHANICAL PROPERTIES OF A POLYMER MATRIX COMPOSITE REINFORCED WITH FOXTAIL PALM SEEDS POWDER**' is being submitted by

**GANAPATHIRAJU SUMANTH VARMA**

**18NT1A0308**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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*K. Jagadeesh*  
Project guide

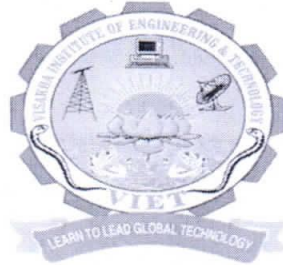
*Gov. Siva Kumar*  
Head of the Department

External Examiner

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**SIDDA VINOD KUMAR**

**18NT1A0320**

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**SINGAMPALLI RAVI KUMAR**

**18NT1A0321**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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*K. Jagadeesh*  
Project guide -

*Ch. Siva Kumar*  
Head of the Department

External Examiner

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**TEELLA CHAITANYA KUMAR**

**18NT1A0324**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**PEDAPATI SRIKANTH**

**19NT5A0365**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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*K. Jagadeesh*  
Project guide

*Dr. Siva Kumar*  
Head of the Department

External Examiner

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**SEERAPU RUPA ANANDA KRISHNA REDDY**

**19NT5A0374**

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**CERTIFICATE**

This is to certify that the project report entitled '**MECHANICAL BEHAVIOUR OF SIMILAR METALS FOR SS316 & INCONEL 617 USING TIG**' is being submitted by

**MUDAPAKA SRIKANTH**

**18NT1A0313**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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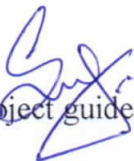
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This is to certify that the project report entitled '**MECHANICAL BEHAVIOUR OF SIMILAR METALS FOR SS316 & INCONEL 617 USING TIG**' is being submitted by

**VAMSI SALADI      19NT5A0388**

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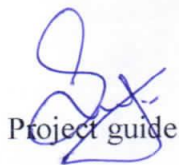
This is to certify that the project report entitled '**MECHANICAL BEHAVIOUR OF SIMILAR METALS FOR SS316 & INCONEL 617 USING TIG**' is being submitted by

**BAINABELLI MANIKANTA**

**18NT1A0301**

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Head of the Department

External Examiner



DEPARTMENT OF MECHANICAL ENGINEERING

PROJECT BATCHES AND TITLES

A.Y : 2021 - 2022

Sl.No	Batch No	Team Members Roll No	Team Members Names	Guide	Project Title
1	1	19NT5A0310	CHIPPALA MANOHAR SAI	DOKALA DEMUDU NAIDU	DESIGNE AND ANALYSIS OF ENGINE FINS
2		19NT5A0375	SIRAGAM DILEEPKUMAR		
3		19NT5A0390	VEERLA BALAJI		
4		19NT5A0394	YERIPILLI RAM BABU		
5		19NT5A0302	ANAPARTHI VINAY		
6	2	19525A0309	BOTCHA KIRAN KUMAR	CHITIMMIREDDI VEERU NANIDU	DESIGN AND FABRICATION OF EARTH TUBE HEAT EXCHANGER
7		18521A0308	GORISIPATI LOKESH		
8		18521A0315	RAKESH RANJAN		
9		19525A0303	AVUDURI YASWANTH		
10		19525A0308	BODDETI ANANTH		
11		19525A0354	POTHALA ARAVINDH		
12	3	19NT5A0352	MOHAMMAD AARIF	GORLE SUNIL	TRANSIENT ANALYSIS OF RADIAL ENGINE
13		19NT5A0395	CHERUKURI SANTOSH KUMAR		
14		19NT5A0336	KARI DHARMENDRA		
15		19NT5A0303	ANGA SRINIVAS		
16		19NT5A0343	KUNCHANGI NOOKARATNAM		
17	4	19NT5A0384	UGGINA JAGADEESH	ALLA MURALI KRISHNA	STRENGTH AND IMPACT ANALYSIS OF COMPOSITE BULLET PROOF JACKET
18		19NT5A0340	KONA NOOKA RAJU		
19		18NT1A0306	CHUCHUKONDA SAI KUMAR		
20		19NT5A0330	GUSIDI RAJKUMAR		
21		19NT5A0368	PRASHANTH BISAI		
22	5	19NT5A0387	VADRA MADHU BHARGAV	ATILLI NARENDRA KUMAR	DESIGN ANALYSIS OF PISTON ENGINE
23		19NT5A0371	RAVADA DHANARAJU KUMAR		
24		19NT5A0380	TADI VAMSI		
25		18NT1A0323	TAMADA RAVI		
26		19NT5A0305	APALABATHULA PRASAD		
27		19NT5A0389	VASA JAIDEEP REDDY	Dr.TIRI ANGI	INVESTIGATION OF SIMILAR AND
28		19NT5A0385	UPPARI VENUGOPAL		



29	6	19NT5A0324	GOLAGANI KRISHNA	SATYANARAYANA	DISSIMILAR JOINTS OF STAINLESS STEEL WITH TIG AND MIG WELDED
30		19NT5A0331	IROTHI HARI KRISHNA		
31		19NT5A0366	PILLA RAVI KUMAR		
32	7	19NT5A0322	DUGGAPU SRINIVASA RAO	Dr.KARRA DAYANA	DESIGN OF SOLAR TRACKER WITH THE AGRICULTURE PUMP
33		19NT5A0391	VEMPADA ARAVINDREDDY		
34		19NT5A0350	MIRIYALA JAGADEESHWAR RAO		
35		19NT5A0355	MOLLI VENKATA KIRAN		
36		19NT5A0334	KAMPARA SAI KUMAR		
37	8	19525A0341	MOHMMED KHAJA	DOKALA DEMUDU NAIDU	STRUCTURAL AND THERMAL ANALYSIS OF DISC BREAK ROTAR
38		19525A0310	BUDIDA.S.R.C.MURTHY KUMAR		
39		19525A0319	G.A.NARASIMHA REDDY		
40		19525A0322	IJJAVARAPU VENU MADHAV		
41		19525A0327	KAVALI LOKESH		
42	9	19NT5A0386	VADISALA SAISASIDHAR	KANTE RAVINDRA	SOLAR POWERED MULTY PURPOSE MACHINE FOR AGRICULTURAL USE
43		19NT5A0333	KAKI KESAVA REDDY		
44		19NT5A0373	SARIPALLI GANGADHAR		
45		18NT1A0322	SOMIREDDI PHANEENDRA		
46		19NT5A0307	BANKA NAGA RAJU		
47	10	19NT5A0311	CHITIKELA LAVANYA	GONDI. SIVA KARUNA	INVESTIGATIONS OF SUTABILITY OF WALLNUT SHELLPOWDER AND PISTA SHELL POWDER AS AN ALTERNATIVE ADDITVIVE IN SYNTHATIC GREEN SAND MOLDING
48		19NT5A0364	PEDANAYUNI VIJAY		
49		18NT1A0317	PENKE TARUN AKSHAY		
50		19NT5A0301	ADARI SHYAM SUNDAR		
51		19NT5A0328	GORLI MURALI		
52	11	18NT1A0308	GANAPATHIRAJU SUMANTH VARMA	K. JAGADESWARA RAO	INVESTIGATION OF MECHANICAL PROPERTIES OF A POLYMER MATRIX COMPOSITE REINFORCED WITH FOXTAIL PALM SEEDS POWDER
53		18NT1A0320	SIDDA VINOD KUMAR		
54		18NT1A0321	SINGAMPALLI RAVI KUMAR		
55		18NT1A0324	TEELLA CHAITANYA KUMAR		
56		19NT5A0365	PEDAPATI SRIKANTH		
57		19NT5A0374	SEERAPU RUPA ANANDA KRISHNA		
58	12	18NT1A0313	MUDAPAKA SRIKANTH	Dr.TIRLANGI SATYANARAYANA	MECHANICAL BEHAVIOUR OF SIMILAR METALS FOR SS316 & INCONEL 617 USING TIG
59		19NT5A0388	VAMSI SALADI		
60		18NT1A0301	BAINABELLI MANIKANTA		
61		19NT5A0338	KASIMAHANATHI V S SARASHCHAN		
62		19NT5A0349	MERUGU RAJA RAO		
63	13	18NT1A0318	SEERAPU DHARMA TEJA	Dr.V.SRIDHAR PATNAIK	DESIGN AND FABRICATION OF SOLAR POWERED LAWNMOVERS
64		18NT1A0315	MYLAPILLI RAJU		
65		19NT5A0383	THATIPUDI CHANDRA SEK HAR		
66		18NT1A0302	BAINUBELLI DILEEP		
67		19NT5A0335	KANDREGULA SAI CHARAN		
68		19NT5A0314	DADI ARUNKUMAR		
69	14	19NT5A0308	BHOGI SRIKANTH	ALLA MURALI KRISHNA	AERODYNAMIC ANALYSIS ON CARS WITH VORTEX GENERATOS USING
70		19NT5A0304	ANGA VINAY		
71		19NT5A0339	KOLLI SRINIVAS		
72		19NT5A0379	SURLA GOVINDA		

				CFD
73		19NT5A0357	MUDILI DORABABU	
74	15	19NT5A0309	BONU KIRAN KUMAR	KORLA CHANDANA
75		19NT5A0369	PYLA SRI RAMA MURTHY NAIDU	
76		19NT5A0306	BALIREDDY JITENDRA	
77		18NT1A0309	KAMMILA SAI PAVAN KUMAR	
78		18NT1A0304	BATTULA GANGA VENKATA VARA	
79	16	19NT5A0320	DORA REVATHI SAI DEEPTHI	VANGAPANDU CHANDRAKALA
80		19NT5A0342	KOYYA UDAY KUMAR REDDY	
81		19NT5A0348	MEDASETTI SATYA PRASAD	
82		18NT5A0373	PERLA DURGAPRASAD	
83		19NT5A0316	DESAMSETTI KASU BABU	
84		19NT5A0382	THALABATHULA SURI SHANMUKH	
85	17	19NT5A0332	JAKKANA SUDHEER KUMAR	ATILLI NARENDRA KUMAR
86		18NT1A0316	PABBISSETTI VINAY	
87		19NT5A0337	KARRI DILEEP	
88		19NT5A0319	DOKKADA KALYAN	
89		19NT5A0312	CHITTA HEMANTH	
90	18	19NT5A0346	MANJI INDAL KUMAR	CHITTIBOYINA KIRAN KUMAR
91		19NT5A0321	DUDI SAITEJA	
92		19NT5A0376	SIRISSETTI MARIYA KUMAR	
93		19NT5A0317	DIKKOLU VAMSI KRISHNA	
94		19NT5A0372	SANAPATHI RAJA	
95	19	19NT5A0347	MANTRI VAMSI KRISHNA	CHITIMMIREDDI VEERU NANIDU
96		19NT5A0329	GURUBILLI SANTOSH KUMAR	
97		19NT5A0351	MODALAVALASA JEETHENDRASAI	
98		19NT5A0362	PALLELA KARTHIK	
99		19NT5A0345	LAKKARAJU ANIL KUMAR	
100	20	19525A0348	PENAGANTI NAVEEN	GONDI. SIVA KARUNA
101		18521A0303	BOKAM VAMSI	
102		19525A0355	POTHALA BANGARU NAIDU	
103		19525A0360	RAVI SHANKAR	
104		19525A0362	SIRISIPALLI UPENDRA	
105		17525A0308	BEESETTI PAVAN KALYAN	
106	21	19525A0371	YAGATI DELEEP KUMAR	CHITTIBOYINA KIRAN KUMAR
107		19525A0344	JAGADEESH NAIGAPULA	
108		19525A0367	VANAPALLI BHANU CHANDU	
109		19525A0374	YELISSETTI MADHANMOHAN	
110		19525A0375	YERRA GOVINDA	
111		19525A0377	GADAGAMMA SASI BHUSHANA RA	
112	22	196G5A0322	GONDESI NANI	ATILLI NARENDRA KUMAR
113		196G5A0362	RAPETI SAI	
114		196G5A0373	TERUKUTI LALITHA BHAGYASRI	
115		196G5A0303	ADHIKARI DHARMENDRA	
116	23	196G5A0323	GORUSU RAGHU REDDY	KANTE RAVINDRA
117		196G5A0365	SARIPILLI KRISHNA KUMAR	
118		196G5A0390	BOTTA SATHISH	
119		196G5A0386	KOTNI UDAY	
120		196G5A03A0	OMMI HARISH NAIDU	
121	24	196G5A0356	PITTA APPALANAIDU	VANGAPANDU CHANDRA KALA
122		196G5A0378	VANKA VIJAY KUMAR	
123		176G1A0321	T SRIKANTH	
124		196G5A0392	DAMULURI POORNA CHANDRA	
125	25	186G1A0316	ONDRU YASWANTH RAVI TEJA	GORLE SUNIL
126		196G5A0336	LAMBA RAJENDRA KUMAR	
127		196G5A0399	PANTHADI SIVA GANGA	
128		196G5A0318	GANDREDDI VENKATESH	

129		196G5A0387	MATAM DURGA PRASAD		element analysis(FEA)
130		176G1A0311	M SIMHACHALAM		
131	26	186G1A0305	GANTLA MOHAN KUMAR	KANTE RAVINDRA	Design and analysis of composite leaf springs
132		196G5A0351	PENIGONDA SHANMUKHA RAO		
133		196G5A03A3	GALLA CHIRANJEEVI NAIDU		
134		186G1A0302	CHINTADA TEJA		
135		186G1A0304	GANTLA MANOJ		
136	27	196G5A0366	SINGAMPALLI NUTHAN KANTH E	CHITIMIREDDI VEERU NANIDU	Static and thermal analysis of engine block by using ansys
137		186G1A0313	D. CHARAN SAIDEEP		
138		186G1A0317	YEDLA REVANTH SHANKHAR		
139		196G5A0335	LALAM BALA ADITYA		
140	28	196G5A0308	BONDI GOVINDU	K JAGADESHWAR A RAO	Design and analysis of valve gear mechanism
141		196G5A0317	DWARAPUDI SHANKAR		
142		186G1A0318	YELAMANCHI RAJESH KUMAR		
143		196G5A0374	THEEGELA RAVI TEJA		
144	29	196G5A0338	MADDI GURUMURTHY REDDY	Dr. Dayana	Design and analysis of piston by using composite materials
145		196G5A0325	GOTTUMUKKALA GOWTHAM SA		
146		196G5A0375	UDAMALA NAGARAJU		
147		196G5A0334	LAKKARAJU VAMSI VINESH		
148		196G5A0368	SIVA VARA PRASAD		
149	30	196G5A0370	TAMARANA GOWTHAM	K CHANDHANA	Design and development of catalytic converter for reduction of pollution by using taansient and CFD analysis
150		196G5A0363	SABBI LOVARAJU		
151		196G5A0348	PAPPALA PRASAD		
152		196G5A0304	AKULA UDAY BABU		
153	31	196G5A0388	VADDADI SHANKARA RAO	Dr. Dayana	Design and fabrication chainless bicycle
154		196G5A0384	BODDURI MOHAN KRISHNA SAI		
155		186G1A0310	TEDDI SRINU		
156		196G5A0376	UPPILI SIVA KUMAR		
157		196G5A0345	PADALA RAJA		
158	32	196G5A0301	ABDUN NADEEM	Dr.TIRLANGI SATYANARAYA NA	analysis of mechanical behaviour od dissimilar metals joined using TIG and MIG,welding for INCONEL 617 and SS
159		196G5A0329	KARAGANI SRAVANI		
160		196G5A0333	KOSURI SAIKUMAR		
161		196G5A0352	PETHAKAMSETTI MANIKANTA NIKILESH		
162	33	196G5A0310	DADI DURGESWARA RAO	Dr.V SRIDHAR PATNAIK	design and analysis of solar grass cutting machnie
163		196G5A0347	PANCHADARLA NAGENDRA		
164		196G5A0382	YELAMANCHI SAI KIRAN		
165		196G5A0327	KAKKALA APPALARAJU		
166	34	196G5A0320	GOLAGANI JYOSHNA	Dr.V SRIDHAR PATNAIK	Design and analysis of hand pallet truck
167		196G5A0346	PALLAM NAVEEN		
168		196G5A0360	PUDI HAMANTH MANIKANTA		
169		196G5A0306	BEHARA PHANINDRA		
170		196G5A0393	PEDDI SATISH KUMAR		
171	35	196G5A0367	SINGAMPALLI SATYAGEETHA	DOKALA DEMUDU NAIDU	Design and analysis of composite spur gear with finite element method
172		196G5A0396	SANGADA BHARGAV		
173		196G5A0391	KOTYADA MANIKANTA SWAMI		
174		186G1A0301	BIYYAMPALLI ABHIRAM		
175	36	196G5A0371	TANGETI NANAJI	ALLA MURALI KRISHNA	Design and analysis of gas turbine blade
176		196G5A0311	DODDI DILIP KUMAR		
177		196G5A0397	DOGGA KUMAR SWAMY		
178		186G1A0314	KANITHI KRANTHI KUMAR		
179	37	186G1A0309	PATAKAMURI GNAN VARUN	CHITTIBOYINA KIRAN KUMAR	New strategies in corrosion contol using nano material
180		196G5A0354	PILLA GANESH		
181		196G5A0330	KARNAM NAVEEN KUMAR		
182	38	196G5A0305	BATHI GANESH	CHITTIBOYINA	Design and structural analysis of automobile
183		196G5A0355	PILLA SURYA SATISH		

184	30	196G5A0302	ADAPA MOHAN KUMAR	KIRAN KUMAR	analysis of automotive alloy wheel
185		186G1A0308	KORUPOLU SRINIVAS GIRI TEJA		
186	39	196G5A0314	DOPPA JOSH MITH	GORLE SUNIL	Rotodynamic modelling and static model analysis of a radio in flow turbine in bearing system
187		196G5A0319	GEDELA UPENDRA		
188		196G5A0385	CHIKKAM NAGA SURYA PRUDHV		
189		196G5A0313	DODDI PRASAD		
190	40	196G5A0309	CHIPPALA BALU	VANGAPANDU CHANDRA KALA	Fabrication and characterisation of basalt-jute composite with graphine as nanofiller
191		196G5A0350	PEETHA VAMSI KRISHNA		
192		196G5A0389	BODDU SAGAR		
193		196G5A0307	BOBBARI NAVEEN RAJU		
194		196G5A0312	DODDI MANIKANTA		
195	41	196G5A03A2	SRICHARAN NARAYANA SETTY	GONDI SIVA KARUNA	Tribological characteristics of Al2024 hybrid metal matrix
196		196G5A0380	VEMPADAPU HARIBABU		
197		196G5A0340	MALLETI KAPIL VARMA		

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PRINCIPAL

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**CERTIFICATE**

This is to certify that is project report is entitled “**Design and analysis of composite spur gear with finite element method**” by SINGAMPALLI SATYAGEETHA (196G5A0367) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

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**Assistant professor**

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This is to certify that is project report is entitled “**Design and development of catalytic converter for reduction of pollution by using taansient and CFD analysis**” by TAMARANA GOWTHAM (196G5A0370) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**

**K CHANDHANA, M Tech**

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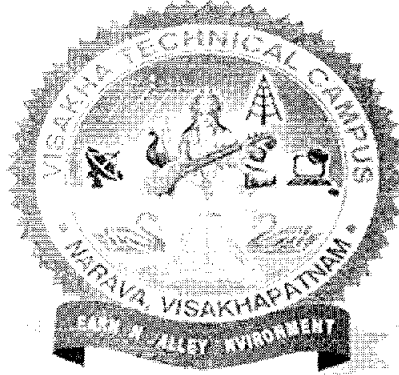
  
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This is to certify that is project report is entitled “**Design and development of catalytic converter for reduction of pollution by using taansient and CFD analysis**” by **SABBI LOVARAJU (196G5A0363)** Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
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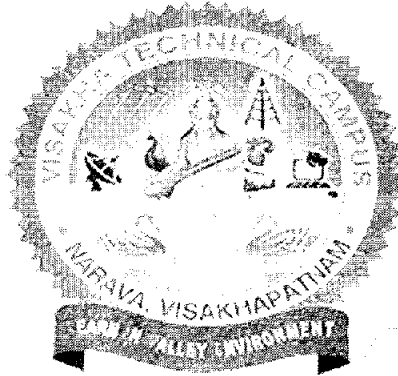
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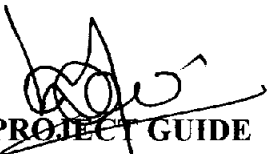
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This is to certify that is project report is entitled “**Design and development of catalytic converter for reduction of pollution by using taansient and CFD analysis**” by PAPPALA PRASAD (196G5A0348) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
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This is to certify that is project report is entitled “**Design and development of catalytic converter for reduction of pollution by using transient and CFD analysis**” by AKULA UDAY BABU (196G5A0304) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
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This is to certify that is project report is entitled “**Design and analysis of hand pallet truck**” by BEHARA PHANINDRA (196G5A0306) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

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This is to certify that is project report is entitled “**Design and analysis of hand pallet truck**” by PUDI HAMANTH MANIKANTA (196G5A0360) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

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This is to certify that is project report is entitled “**Design and analysis of hand pallet truck**” by PALLAM NAVEEN (196G5A0346) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

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**Dr.V SRIDHAR PATNAIK, Ph.D**

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**Dr.V SRIDHAR PATNAIK, Ph.D**

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This is to certify that is project report is entitled “**design and analysis of solar grass cutting machnie**” by PANCHADARLA NAGENDRA (196G5A0347) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

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This is to certify that is project report is entitled “**Rotodynamic modelling and static model analysis of a radio in flow turbine in bearing system**” by DOPPA JOSHMITH (196G5A0314) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

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Assistant professor

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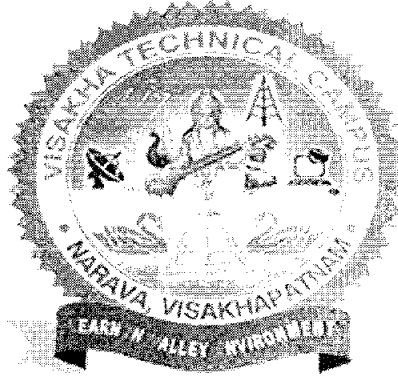
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This is to certify that is project report is entitled “**design and analysis of blanking and piercing die punch**” by GORUSU RAGHU REDDY (196G5A0323) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

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**KANTE RAVINDRA, M. Tech**

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This is to certify that is project report is entitled “**design and analysis of blanking and piercing die punch**” by SARIPILLI KRISHNA KUMAR (196G5A0365) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

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**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**design and analysis of blanking and piercing die punch**” by OMMI HARISH NAIDU (196G5A03A0) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**KANTE RAVINDRA, M. Tech**

**Assistant professor**

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**

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**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Static and model analysis of pipe flange**” by PITTA APPALANAIDU (196G5A0356) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**V CHANDRA KALA, M. Tech**

**Assistant professor**

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**

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57<sup>th</sup> Division, Narava, Visakhapatnam-530027.  
(2021-2022)



## CERTIFICATE

This is to certify that is project report is entitled “**Static and model analysis of pipe flange**” by VANKA VIJAY KUMAR (196G5A0378) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
PROJECT GUIDE

V CHANDRA KALA, M. Tech

Assistant professor

  
HEAD OF DEPARTMENT

G. SIVA KARUNA, M. Tech (Ph. D)

Associate professor

EXTERNAL EXAMINER



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57<sup>th</sup> Division, Narava, Visakhapatnam-530027.  
(2021-2022)



## CERTIFICATE

This is to certify that is project report is entitled “**Static and model analysis of pipe flange**” by T SRIKANTH (176G1A0321) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**V CHANDRA KALA, M. Tech**

Assistant professor

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

Associate professor

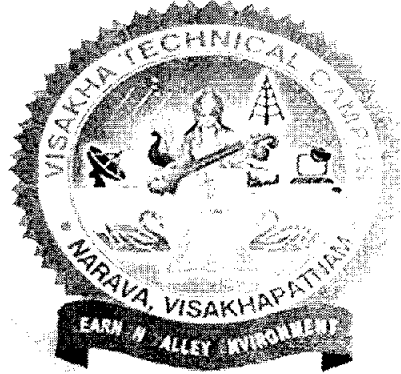
**EXTERNAL EXAMINER**

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57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



## CERTIFICATE

This is to certify that is project report is entitled “**Static and model analysis of pipe flange**” by DAMULURI POORNA CHANDRA RAO (196G5A0392) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**V CHANDRA KALA, M. Tech**

Assistant professor

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

Associate professor

**EXTERNAL EXAMINER**

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**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Structural analysis and fluent analysis of pressurised feed check valve body by filnite element analysis(FEA)**” by ONDRU YASWANTH RAVI TEJA (186G1A0316) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**G Sunil, M. Tech**  
Assistant professor

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**  
Associate professor

**EXTERNAL EXAMINER**

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57<sup>th</sup> Division, Narava, Visakhapatnam-530027.  
(2021-2022)



## CERTIFICATE

This is to certify that is project report is entitled “**Structural analysis and fluent analysis of pressurised feed check valve body by finite element analysis(FEA)**” by LAMBA RAJENDRA KUMAR (196G5A0336) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
PROJECT GUIDE

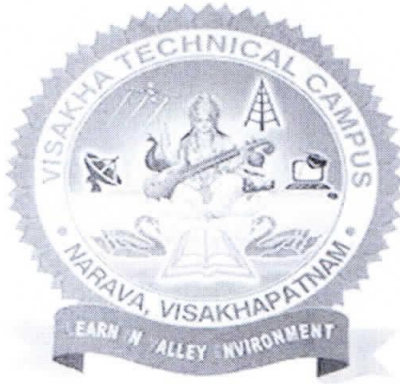
G Sunil, M. Tech  
Assistant professor

  
HEAD OF DEPARTMENT

G. SIVA KARUNA, M. Tech (Ph. D)  
Associate professor


EXTERNAL EXAMINER


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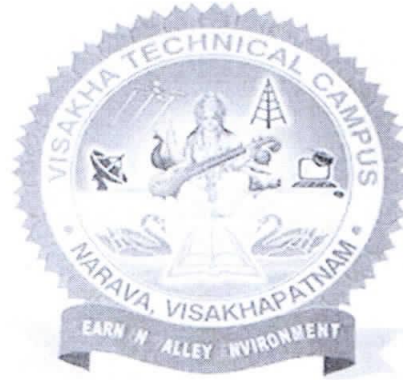
This is to certify that is project report is entitled “**Structural analysis and fluent analysis of pressurised feed check valve body by filnite element analysis(FEA)**” by PANTHADI SIVA GANGA (196G5A0399) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**  
**G Sunil, M. Tech**  
Assistant professor

  
**HEAD OF DEPARTMENT**  
**G. SIVA KARUNA, M. Tech (Ph. D)**  
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**CERTIFICATE**

This is to certify that is project report is entitled “**Structural analysis and fluent analysis of pressurised feed check valve body by finite element analysis(FEA)**” by GANDREDDI VENKATESH (196G5A0318) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**

**G Sunil, M. Tech**  
**Assistant professor**

  
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**  
**Associate professor**

**EXTERNAL EXAMINER**

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This is to certify that is project report is entitled “**Structural analysis and fluent analysis of pressurised feed check valve body by filnite element analysis(FEA)**” by MATAM DURGA PRASAD (196G5A0387) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**

**G Sunil, M. Tech**  
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**PROJECT GUIDE**

**G Sunil, M. Tech**  
Assistant professor

  
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Associate professor

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**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Design and analysis of composite leaf springs**” by GANTLA MOHAN KUMAR (186G1A0305) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**K Ravindra, M. Tech**

**Assistant professor**

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**

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57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



### CERTIFICATE

This is to certify that is project report is entitled “**Design and analysis of composite leaf springs**” by PENIGONDA SHANMUKHA RAO (196G5A0351) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**K Ravindra, M. Tech**

Assistant professor

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Associate professor

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This is to certify that is project report is entitled “**Design and analysis of composite leaf springs**” by GALLA CHIRANJEEVI NAIDU (196G5A03A3) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**K Ravindra, M. Tech**

**Assistant professor**

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**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

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**PROJECT GUIDE**

**K Ravindra, M. Tech**

**Assistant professor**

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**

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(2021-2022)



**CERTIFICATE**

This is to certify that is project report is entitled “**Static and thermal analysis of engine block by unsing ansys**” by GANTLA MANOJ (186G1A0304) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**CH VEERU NAIDU, M. Tech**

**Assistant professor**

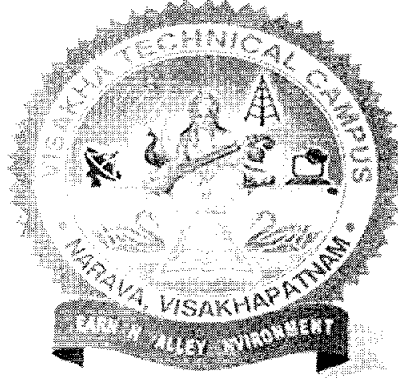
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**

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**(2021-2022)**



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This is to certify that is project report is entitled “**Static and thermal analysis of engine block by unsing ansys**” by SINGAMPALLI NUTHAN KANTH BRAHMANA (196G5A0366) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**CH VEERU NAIDU, M. Tech**

**Assistant professor**

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**

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**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



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This is to certify that is project report is entitled “**Static and thermal analysis of engine block by unsing ansys**” by D. CHARAN SAIDEEP (186G1A0303) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**CH VEERU NAIDU, M. Tech**

**Assistant professor**

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**

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57<sup>th</sup> Division, Narava, Visakhapatnam-530027.  
(2021-2022)



## CERTIFICATE

This is to certify that is project report is entitled “**Static and thermal analysis of engine block by unsing ansys**” by YEDLA REVANTH SHANKHAR (186G1A0317) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**CH VEERU NAIDU, M. Tech**

**Assistant professor**

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**



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**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Static and thermal analysis of engine block by unsing ansys**” by LALAM BALA ADITYA (196G5A0335) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**CH VEERU NAIDU, M. Tech**

**Assistant professor**

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

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57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



## CERTIFICATE

This is to certify that is project report is entitled “**Design and analysis of valve gear mechanism**” by BONDI GOVINDU (196G5A0308) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
PROJECT GUIDE

**K JAGADESHWARA RAO, M. Tech**

Assistant professor

  
HEAD OF DEPARTMENT

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Associate professor

**EXTERNAL EXAMINER**

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**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Design and analysis of valve gear mechanism**” by DWARAPUDI SHANKAR (196G5A0317) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**

**K JAGADESHWARA RAO, M. Tech**  
Assistant professor

  
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**  
Associate professor

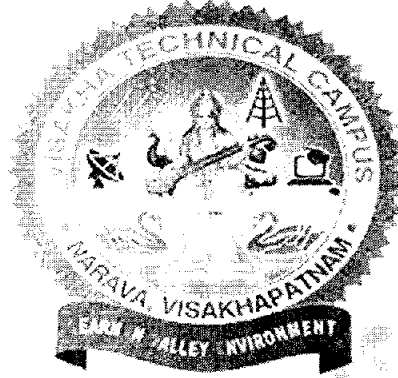
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57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



## CERTIFICATE

This is to certify that is project report is entitled “**Design and analysis of valve gear mechanism**” by DANNANA THARUN(186G1A0303) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
PROJECT GUIDE

**K JAGADESHWARA RAO, M. Tech**

**Assistant professor**

  
HEAD OF DEPARTMENT

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**

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57<sup>th</sup> Division, Narava, Visakhapatnam-530027.  
(2021-2022)



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This is to certify that is project report is entitled “**Design and analysis of valve gear mechanism**” by YELAMANCHI RAJESH KUMAR (186G1A0318) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
PROJECT GUIDE

**K JAGADESHWARA RAO, M. Tech**

Assistant professor

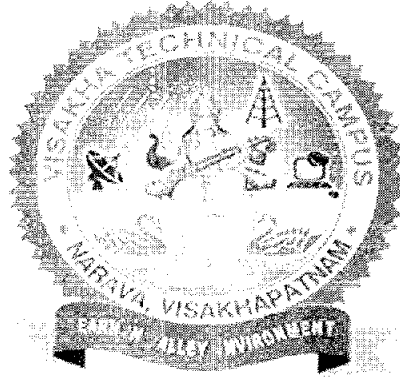
  
HEAD OF DEPARTMENT

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**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Design and analysis of piston by using composite materials**” by MADDI GURUMURTHY REDDY (196G5A0338) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**

**Dr K Dayana, Ph.D**

**Associate professor**

  
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**

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## CERTIFICATE

This is to certify that is project report is entitled “**Design and analysis of piston by using composite materials**” by UDAMALA NAGARAJU (196G5A0375) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*Dayana*  
PROJECT GUIDE

Dr K Dayana, Ph.D

Associate professor

*G. Siva Karuna*  
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G. SIVA KARUNA, M. Tech (Ph. D)

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(2021-2022)



## CERTIFICATE

This is to certify that is project report is entitled “**Design and analysis of piston by using composite materials**” by GOTTUMUKKALA GOWTHAM SAI VARMA (196G5A0325) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*Dayana*  
PROJECT GUIDE

Dr K Dayana, Ph.D  
Associate professor

*G. Siva Karuna*  
HEAD OF DEPARTMENT

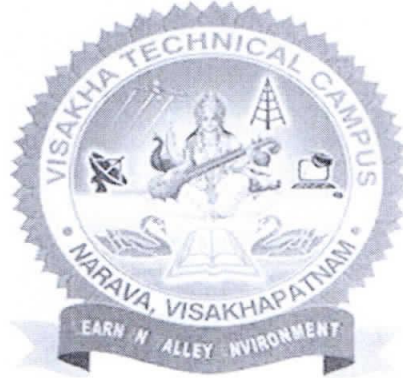
G. SIVA KARUNA, M. Tech (Ph. D)  
Associate professor

EXTERNAL EXAMINER



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*Dayana*  
PROJECT GUIDE

Dr K Dayana, Ph.D

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*Dayana*  
PROJECT GUIDE

Dr K Dayana, Ph.D

Associate professor

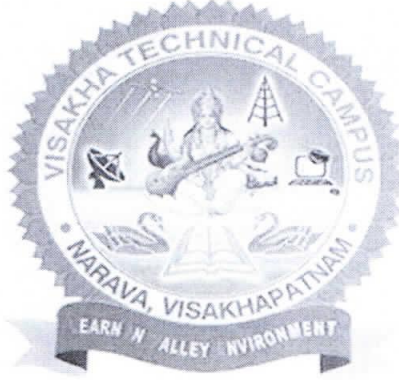
*G. Siva Karuna*  
HEAD OF DEPARTMENT

G. SIVA KARUNA, M. Tech (Ph. D)

Associate professor

EXTERNAL EXAMINER

**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Design and fabrication chainless bicycle**” by VADDADI SHANKARA RAO (196G5A0388) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**

**Dr K Dayana, Ph.D**  
Associate professor

  
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**  
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**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Design and fabrication chainless bicycle**” by BODDURI MOHAN KRISHNA SAI (196G5A0384) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*Dayana.*  
**PROJECT GUIDE**

**Dr K Dayana, Ph.D**  
Associate professor

*G. Siva Karuna.*  
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**G. SIVA KARUNA, M. Tech (Ph. D)**  
Associate professor

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**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Design and fabrication chainless bicycle**” by TEDDI SRINU (186G1A0310) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*Dayee*  
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**Dr K Dayana, Ph.D**

**Associate professor**

*G. Siva Karuna*  
**HEAD OF DEPARTMENT**

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**Associate professor**

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**(2021-2022)**



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This is to certify that is project report is entitled “**Design and fabrication chainless bicycle**” by UPPILI SIVA KUMAR (196G5A0376) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*Dayaa*  
**PROJECT GUIDE**

**Dr K Dayana, Ph.D**  
Associate professor

*G. Siva Karuna*  
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Associate professor

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**(2021-2022)**



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This is to certify that is project report is entitled “**Design and fabrication chainless bicycle**” by PADALA RAJA (196G5A0345) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*Dayce*  
**PROJECT GUIDE**

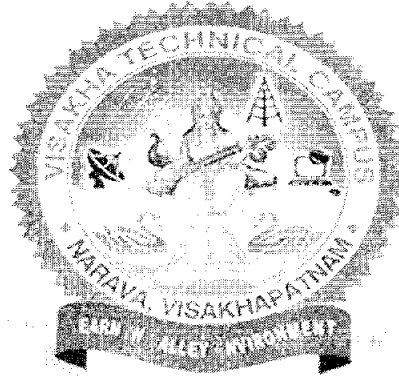
**Dr K Dayana, Ph.D**  
**Associate professor**

*G. Siva Karuna*  
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**  
**Associate professor**

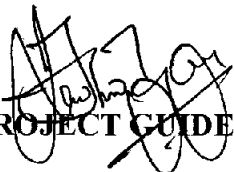
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**CERTIFICATE**

This is to certify that is project report is entitled “**Analysis of mechanical behaviour dissimilar metals joined using TIG and MIG welding for INCONEL 617 and SS 316**” by ABDUN NADEEM (196G5A0301) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**

**Dr T Satyanarayana, Ph.D**  
Associate professor

  
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**  
Associate professor

**EXTERNAL EXAMINER**

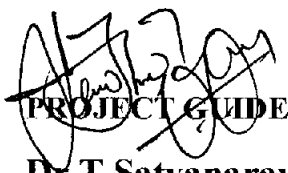


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PROJECT GUIDE

**Dr T Satyanarayana, Ph.D**

Associate professor

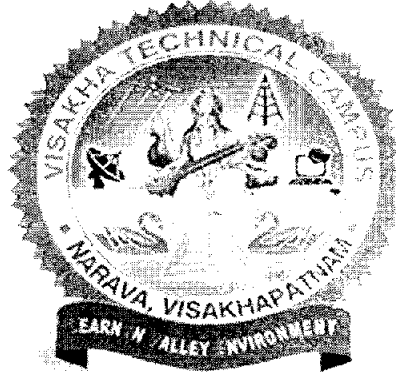
  
HEAD OF DEPARTMENT

**G. SIVA KARUNA, M. Tech (Ph. D)**

Associate professor

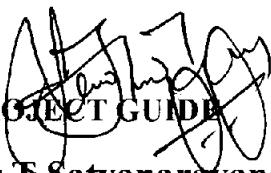
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This is to certify that is project report is entitled “**Analysis of mechanical behaviour dissimilar metals joined using TIG and MIG welding for INCONEL 617 and SS 316**” by KOSURI SAIKUMAR (196G5A0333) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**

**Dr T Satyanarayana, Ph.D**

**Associate professor**

  
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**Associate professor**

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This is to certify that is project report is entitled “**Analysis of mechanical behaviour dissimilar metals joined using TIG and MIG welding for INCONEL 617 and SS 316**” by PETHAKAMSETTI MANIKANTA NIKILESH (196G5A0352) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022



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**Dr T Satyanarayana, Ph.D**

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**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Design and analysis of gas turbine blade**” by TANGETI NANAJI (196G5A0371) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**A MURALI KRISHNA, M.Tech (Ph.D)**

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**Associate professor**

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**CERTIFICATE**

This is to certify that is project report is entitled “**Design and analysis of gas turbine blade**” by DODDI DILIP KUMAR (196G5A0311) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
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**Associate professor**

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This is to certify that is project report is entitled “**Design and analysis of gas turbine blade**” by DOGGA KUMAR SWAMY (196G5A0397) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
PROJECT GUIDE

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(2021-2022)



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This is to certify that is project report is entitled “**Design and analysis of gas turbine blade**” by KANITHI KRANTHI KUMAR (186G1A0314) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
PROJECT GUIDE

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**CERTIFICATE**

This is to certify that is project report is entitled “**New strategies in corrosion control using nano material**” by PATAKAMURI GNAN VARUN (186G1A0309) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*CH. Kiran*

**PROJECT GUIDE**

**CH. KIRAN KUMAR, M.Tech (Ph.D)**

**Assistant professor**

*G. Siva Karuna*

**HEAD OF DEPARTMENT**

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## CERTIFICATE

This is to certify that is project report is entitled “**New strategies in corrosion control using nano material**” by PILLA GANESH (196G5A0354) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*CH. Kiran Kumar*

**PROJECT GUIDE**

**CH. KIRAN KUMAR, M.Tech (Ph.D)**

**Assistant professor**

*G. Siva Karuna*

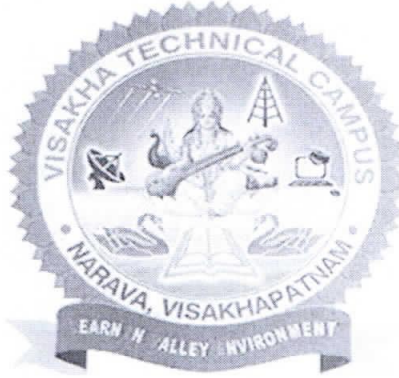
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**

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**(2021-2022)**



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This is to certify that is project report is entitled “**New strategies in corrosion control using nano material**” by KARNAM NAVEEN KUMAR (196G5A0330) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*Ch. Kiran*

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**CH. KIRAN KUMAR, M.Tech (Ph.D)**

**Assistant professor**

*G. Siva Karuna*  
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**Associate professor**

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**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Design and structural analysis of automobile alloy wheel**” by BATHI GANESH (196G5A0305) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*CH. Kiran*

**PROJECT GUIDE**

**CH. KIRAN KUMAR, M.Tech (Ph.D)**

**Assistant professor**

*G. Siva Karuna*

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**Associate professor**

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57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



## CERTIFICATE

This is to certify that is project report is entitled “**Design and structural analysis of automobile alloy wheel**” by PILLA SURYA SATISH (196G5A0355) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*CH. Kiran Kumar*

PROJECT GUIDE

CH. KIRAN KUMAR, M.Tech (Ph.D)

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*G. Siva Karuna*  
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Associate professor

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This is to certify that is project report is entitled “**Design and structural analysis of automobile alloy wheel**” by ADAPA MOHAN KUMAR (196G5A0302) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

*Ch. Kiran Kumar*

**PROJECT GUIDE**

**CH. KIRAN KUMAR, M.Tech (Ph.D)**

**Assistant professor**

*G. Siva Karuna*

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**G. SIVA KARUNA, M. Tech (Ph. D)**

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*Ch. Kiran*

**PROJECT GUIDE**

**CH. KIRAN KUMAR, M.Tech (Ph.D)**

**Assistant professor**

*G. Siva Karuna*

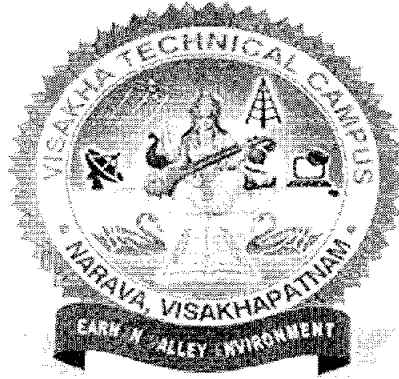
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

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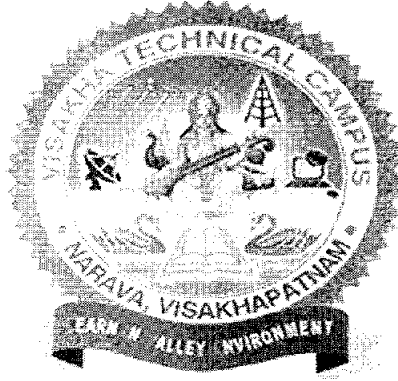
**V CHANDRA KALA, M.Tech**  
Assistant professor

  
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**  
Associate professor

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**PROJECT GUIDE**

**V CHANDRA KALA, M.Tech**

**Assistant professor**

**HEAD OF DEPARTMENT**

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**Associate professor**

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**V CHANDRA KALA, M.Tech**

**Assistant professor**

  
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

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**V CHANDRA KALA, M.Tech**

**Assistant professor**

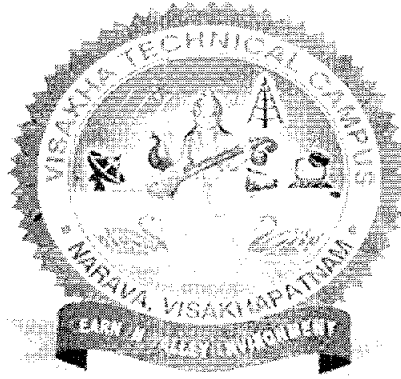
**HEAD OF DEPARTMENT**

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**Associate professor**

**EXTERNAL EXAMINER**

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**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Tribological characteristics of Al2024 hybrid metal matrix composites**” by SRICHARAN NARAYANA SETTY (196G5A03A2) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

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**Associate professor**

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**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Tribological characteristics of Al2024 hybrid metal matrix composites**” by VEMPADAPU HARIBABU (196G5A0380) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**G. SIVA KARUNA, M. Tech (Ph. D)**

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**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Tribological characteristics of Al2024 hybrid metal matrix composites**” by MALLETI KAPIL VARMA (196G5A0340) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**G. SIVA KARUNA, M. Tech (Ph. D)**

Associate professor

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

Associate professor

**EXTERNAL EXAMINER**

**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Experimental investigation and analysis of mechanical properites of chopped strand MAT-E glass fibre polyster resin and silica powder composites**” by GONDESI NANI (196G5A0322) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**ATILLI NARENDRA KUMAR, M. Tech**

Assistant professor

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

Associate professor

**EXTERNAL EXAMINER**

**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Experimental investigation and analysis of mechanical properites of chopped strand MAT-E glass fibre polyester resin and silica powder composites**” by RAPETI SAI (196G5A0362) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**

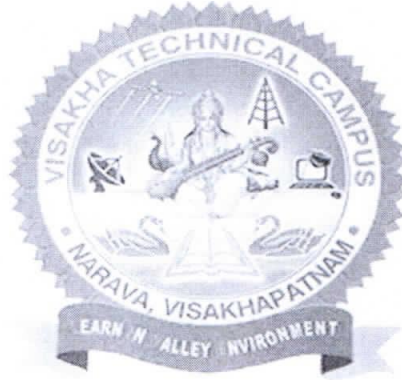
**ATILLI NARENDRA KUMAR, M. Tech**  
Assistant professor

  
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**  
Associate professor

**EXTERNAL EXAMINER**

**VISAKHA TECHNICAL CAMPUS**  
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**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Experimental investigation and analysis of mechanical properites of chopped strand MAT-E glass fibre polyster resin and silica powder composites**” by TERUKUTI LALITHA BHAGYASRI (196G5A0373) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**

**ATILLI NARENDRA KUMAR, M. Tech**  
Assistant professor

  
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**  
Associate professor

**EXTERNAL EXAMINER**



**VISAKHA TECHNICAL CAMPUS**  
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**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Experimental investigation and analysis of mechanical properites of chopped strand MAT-E glass fibre polyster resin and silica powder composites**” by ADHIKARI DHARMENDRA (196G5A0303) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

**PROJECT GUIDE**

**ATILLI NARENDRA KUMAR, M. Tech**

**Assistant professor**

**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**

**Associate professor**

**EXTERNAL EXAMINER**

**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Experimental investigation and analysis of mechanical properites of chopped strand MAT-E glass fibre polyester resin and silica powder composites**” by KANDREGULA RAGHAVA SAI (196G5A0398) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022

  
**PROJECT GUIDE**

**ATILLI NARENDRA KUMAR, M. Tech**  
Assistant professor

  
**HEAD OF DEPARTMENT**

**G. SIVA KARUNA, M. Tech (Ph. D)**  
Associate professor

**EXTERNAL EXAMINER**



**VISAKHA**  
INSTITUTE OF ENGINEERING & TECHNOLOGY  
APPROVED BY AICTE, NEW DELHI  
(Affiliated to JNTUK, Kakinada)  
57<sup>th</sup> Division, GVMC, Narava, Visakhapatnam  
DIPLOMA | ENGINEERING | MANAGEMENT



COLLEGE CODE  
**VSPT**

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**

**LIST OF STUDENTS UNDERTAKING PROJECT WORK**

**A.Y: 2021 - 2022**

S.no	RegdNo	Name	Title
Batch-1	18NT1A0518	K.SAI SANJANA	PLANT DISEASE DETECTION USING CNN ALGORITHM WITH DEEP LEARNING
	18NT1A0535	S.HEMALATHA	
	18NT1A0510	P.SRAVANI	
	18NT1A0513	D.CHITTI SEKHAR	
	18NT1A0542	GLADSTONE	
Batch-2	18NT1A0506	B.SIRISHA	PREDICTION OF TRAFFIC ACCIDENT SEVERITY USING DEEP NEURAL NETWORK
	18NT1A0507	B.YAMINI	
	18521A0508	D. LATHA	
	18521A0509	G.PRADEEP	
	18NT1A0528	P.HANVESH	
Batch-3	18NT1A0523	M.ANITHA	PREDICTION OF TRAFFIC ACCIDENT SEVERITY USING DEEP NEURAL NETWORK
	18NT1A0519	K.KISHORE	
	19NT5A0505	JAI SAIKRISHNA	
	18NT1A0515	E.HEMA	
	18NT1A0511	G.HARSHITH	
Batch-4	19NT5A0503	G.NOOKARATNAM	DETECTION OF COVID -19 BY USING X- RAY IMAGES
	18NT1A0511	C.TULASI	
	18NT1A0527	P.ARAVIND	
	18NT1A0534	S.FARUKH	
	18NT1A0529	P.VINEESHA	

Batch-5	18NT1A0522	M.BHARGAVI	OBJECT DETECTION USING DEEP LEARNING
	18NT1A0530	C.KRUPA	
	18NT1A0538	T.POORNIMA	
	18NT1A0533	S.PAVANI	
	18NT1A0516	E.RAJINI	
Batch-6	18NT1A0526	P.SRINU	MOVING OBJECT DETECTION USING DEEP LEARNING
	18NT1A0520	SUGUNA	
	18NT1A0517	G.CHANTI	
	18521A0501	A.RAJESH	
	18NT1A0512	D.NAVEEN	
Batch-7	18NT1A0505	B.RAVI KIRAN	DEEP SMOKE SEGEMENTATION USING DEEP LEARNING
	18NT1A0532	R.DIVYA	
	18NT1A0540	AJAY	
	18NT1A0514	D.MANO HAR	
	18NT1A0536	CHANDUL	
Batch-8	18NT1A0509	C.MOUNIKA	STOCK MARKET PREDICTION BY USING LSTM WITH DEEP LEARNING
	18NT1A0508	C.YASWANTH	
	18NT1A0501	SAI PAVAN	
	19NT5A0504	VASANTHA MOUNICA	
Batch-9	18NT1A0502	A.VARSHA	VOTING USING BIOMETRICS
	18NT1A0504	B.RENUKHA	
	18NT1A0521	L.JHANSI	
	18NT1A0503	LAKSHMI PRASAD	
	18521A0520	K.J.NAGAVINAY	
Batch-10	17NT1A0507	K.RUPENDRA SINGH	VIRTUAL MOUSE USING HAND GESTURE
Batch-11	186G1A0508	G.SILPA	SENTIMENT ANALYSIS ON MOVIE REVIEWS USING NAÏVE BAYES THEOREM
	186G1A0512	K.ASWINI	
	186G1A0513	M.JOGESH	
	196G5A0502	G.KONDA BABU	
	186G1A0504	CH. SUBHAKAR	
Batch-12	186G1A0523	S.SANJAY	DIABETES PREDICTION USING MACHINE LEARNING
	186G1A0515	P.SAIKUMAR	
	186G1A0506	G. NOOKARATNAM	

Batch-13	186G1A0505	G. AJAY	Object Detection Using Deep Learning
	186G1A0516	R.DURGA BAVANI	
	186G1A0514	N. RAKESH	
	186G1A0501	B. PAVAN	
	186G1A0524	G .SAI KRISHNA	
Batch-14	186G1A0519	T.ANIL	Stock Market Price Prediction By Using LSTM
	186G1A0518	T. RAVINDRA REDDY	
	186G1A0523	G.PENNY PAUL	
	196G5A0501	B. SAI CHARAN	
Batch-15	186G1A0517	S. DEEPTHI	FACIAL EXPRESSION RECOGNITION USING DEEP LEARNING
	186G1A0503	CH. RUPA LAVANYA	
	186G1A0520	T . BRAHMA REDDY	

*R. Srinivasan*  
HOD

*[Signature]*  
PRINCIPAL

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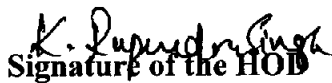
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**CERTIFICATE**

This is to certify that the Project report entitled “**Voting System using Biometrics**” is being submitted by Mr./Miss/Ms **A.Varsha**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the HOD

**K.RUPENDRA SINGH**  
**M.Tech (PhD)**

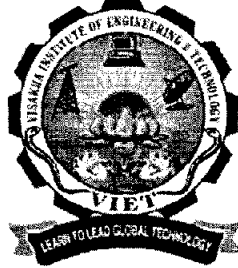
  
Signature of the Guide

**M.LAVANYA**  
**M.Tech**

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

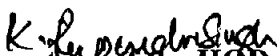
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**CERTIFICATE**

This is to certify that the Project report entitled “**Voting System using Biometrics**” is being submitted by Mr./Miss/Ms **B.Renuka Varalakshmi**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the HOD

**K.RUPENDRA SINGH**  
**M.Tech (PhD)**

  
Signature of the Guide

**M.LAVANYA**  
**M.Tech**

**External Examiner**

# **VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY**


**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



## **CERTIFICATE**

This is to certify that the Project report entitled “**Voting System using Biometrics**” is being submitted by Mr./Miss/Ms **L.Jhansi**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the HOD

**K.RUPENDRA SINGH**  
**M.Tech (PhD)**

  
Signature of the Guide

**M.LAVANYA**  
**M.Tech**

**External Examiner**



# **VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY**


**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



## **CERTIFICATE**

This is to certify that the Project report entitled “**Voting System using Biometrics**” is being submitted by Mr./Miss/Ms **K.Jagannadha Naga Vinay**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the HOD

**K.RUPENDRA SINGH**  
**M.Tech (PhD)**

  
Signature of the Guide

**M.LAVANYA**  
**M.Tech**

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

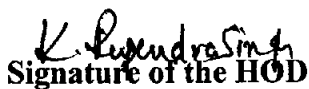
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**CERTIFICATE**

This is to certify that the Project report entitled “**Voting System using Biometrics**” is being submitted by Mr./Miss/Ms **B.Laxmiprasad**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the HOD

**K.RUPENDRA SINGH**  
**M.Tech (PhD)**

  
Signature of the Guide

**M.LAVANYA**  
**M.Tech**

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**CERTIFICATE**

This is to certify that the Project report entitled “**Prediction of Traffic Crash Severity using Deep Nueral Network**” is being submitted by Mr./Miss/Ms **B.Sirisha**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
M.Tech (PhD)

*B. Lakshman Rao*  
Signature of the Guide

**B.LAKSHMAN RAO**  
M.Tech (PhD)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



### CERTIFICATE

This is to certify that the Project report entitled “**Prediction of Traffic Crash Severity using Deep Nueral Network**” is being submitted by Mr./Miss/Ms **B.Yamini**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
M.Tech (PhD)

*B. Lakshman Rao*  
Signature of the Guide

**B.LAKSHMAN RAO**  
M.Tech (PhD)

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**CERTIFICATE**

This is to certify that the Project report entitled “**Prediction of Traffic Crash Severity using Deep Nueral Network**” is being submitted by Mr./Miss/Ms **P.Hanvesh**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
**M.Tech (PhD)**

*B. Lakshman Rao*  
Signature of the Guide

**B.LAKSHMAN RAO**  
**M.Tech (PhD)**

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**CERTIFICATE**

This is to certify that the Project report entitled “**Prediction of Traffic Crash Severity using Deep Nueral Network**” is being submitted by Mr./Miss/Ms **G.Pradeep**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
**M.Tech (PhD)**

*B. Lakshman Rao*  
Signature of the Guide

**B.LAKSHMAN RAO**  
**M.Tech (PhD)**

**External Examiner**

# **VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY**


## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**




### **CERTIFICATE**

This is to certify that the Project report entitled “**Prediction of Traffic Crash Severity using Deep Nueral Network**” is being submitted by Mr./Miss/Ms **D.Latha**, in partial fulfilment for the award of B. Tech in **Visakha Institute of Engineering and Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the HOI

**K.RUPENDRA SINGH**  
**M.Tech (PhD)**

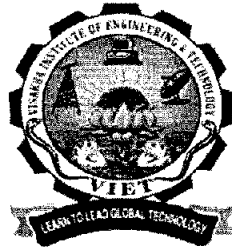
  
Signature of the Guide

**B.LAKSHMAN RAO**  
**M.Tech (PhD)**

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

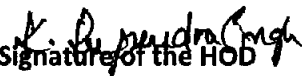
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **DETECTION OF COVID-19 BY USING X-RAY IMAGES** is being submitted by Mr./Miss/Ms **G.Nookaratnam**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**



# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **DETECTION OF COVID-19 BY USING X-RAY IMAGES** is being submitted by Mr./Miss/Ms **CH.Tulasi**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **DETECTION OF COVID-19 BY USING X-RAY IMAGES** is being submitted by Mr./Miss/Ms **P.Vineesha**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **DETECTION OF COVID-19 BY USING X-RAY IMAGES** is being submitted by Mr./Miss/Ms **SK.Farukh**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **DEEP SMOKE SEGMENTATION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **D.Manohar**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the **Jawaharlal Nehru Technological University Kakinada** is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **DEEP SMOKE SEGMENTATION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms V.Ajay, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

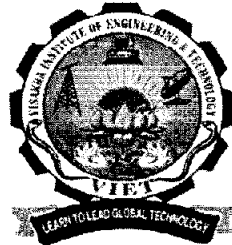
  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **DEEP SMOKE SEGMENTATION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **B.Ravi Krishna**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



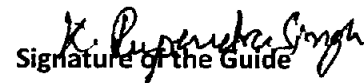
## CERTIFICATE

This is to certify that the Project report entitled **DEEP SMOKE SEGMENTATION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms R.Divya, in partial fulfillment for the award of B. Tech in Visakha Institut Of Engineering And Technology to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **DEEP SMOKE SEGMENTATION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms S.Chandul, in partial fulfillment for the award of B. Tech in Visakha Institut Of Engineering And Technology to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**



# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

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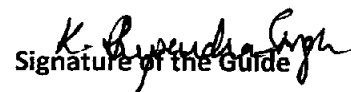
## CERTIFICATE

This is to certify that the Project report entitled **MOVING OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **P.Srinu**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **MOVING OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **G.Chanti**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
**MTECH(Phd)**

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
**MTECH(Phd)**

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **MOVING OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **A.Rajesh**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

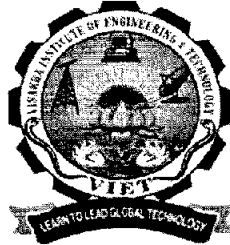
  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **MOVING OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **D.Naveen**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
**MTECH(Phd)**

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
**MTECH(Phd)**

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

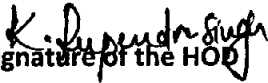
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING




## CERTIFICATE

This is to certify that the Project report entitled **MOVING OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms K.Sugana, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# **VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## **CERTIFICATE**

This is to certify that the Project report entitled **STOCK MARKET PRICE PREDICTION BY USING LSTM WITH DEEP LEARNING** is being submitted by Mr./Miss/Ms **V.Mounika**, in partial fulfillment for the award of B. Tech in **Visakha Institute Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **STOCK MARKET PRICE PREDICTION BY USING LSTM WITH DEEP LEARNING** is being submitted by Mr./Miss/Ms **CH.Mounika**, in partial fulfillment for the award of B. Tech in **Visakha Institute Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **STOCK MARKET PRICE PREDICTION BY USING LSTM WITH DEEP LEARNING** is being submitted by Mr./Miss/Ms **CH.Yeswanth**, in partial fulfillment for the award of B. Tech in Visakha Institut Of Engineering And Technology to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
**MTECH(Phd)**

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
**MTECH(Phd)**

**External Examiner**



# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING




## CERTIFICATE

This is to certify that the Project report entitled **STOCK MARKET PRICE PREDICTION BY USING LSTM WITH DEEP LEARNING** is being submitted by Mr./Miss/Ms **A.V.Sai pavan**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **IMAGE CAPTURING USING DEEP LEARNING WITH FRAME WORKS** is being submitted by Mr./Miss/Ms **K.Kishore**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

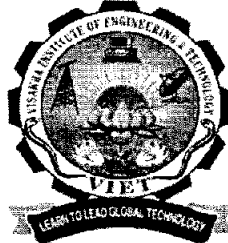
  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **IMAGE CAPTURING USING DEEP LEARNING WITH FRAME WORKS** is being submitted by Mr./Miss/Ms **G.Harshith**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **IMAGE CAPTURING USING DEEP LEARNING WITH FRAME WORKS** is being submitted by Mr./Miss/Ms E.Hema, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **IMAGE CAPTURING USING DEEP LEARNING WITH FRAME WORKS** is being submitted by Mr./Miss/Ms **P.Jaya Sai Krishna**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

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

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **IMAGE CAPTURING USING DEEP LEARNING WITH FRAME WORKS** is being submitted by Mr./Miss/Ms **M.Anitha**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **E.Rajini** in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*B. Lakshman Rao*  
Signature of the Guide

**B.Lakshman Rao**  
MTECH(phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **T.Poornima** in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

*K. Rupendra Singh*

Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*B. Lakshman Rao*

Signature of the Guide

**B.Lakshman Rao**  
MTECH(phd)

**External Examiner**



# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING




## CERTIFICATE

This is to certify that the Project report entitled **OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **S.Pavani** in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**B.Lakshman Rao**  
MTECH(phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING




## CERTIFICATE

This is to certify that the Project report entitled **OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **CH.Krupa** in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

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Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**B.Lakshman Rao**  
MTECH(phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

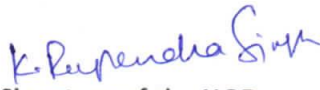
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **PLANT DISEASE DETECTION USING CNN ALGORITHM WITH DEEP LEARNING** is being submitted by Mr./Miss/Ms **S.Hema latha**, in partial fulfillment for the award of B. Tech in **Visakha Institute Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

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Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**G.AMALA DEVI**  
MTECH

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **PLANT DISEASE DETECTION USING CNN ALGORITHM WITH DEEP LEARNING** is being submitted by Mr./Miss/Ms **M.B.Gladstone** in partial fulfillment for the award of B. Tech in **Visakha Institute Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

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Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**G.AMALA DEVI**  
MTECH

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **VIRTUAL MOUSE USING HAND GUESTURE** is being submitted by Mr./Miss/Ms **B.DurgaPrasanth**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **PLANT DISEASE DETECTION USING CNN ALGORITHM WITH DEEP LEARNING** is being submitted by Mr./Miss/Ms **D.Chitti Sekhar** in partial fulfillment for the award of B. Tech in **Visakha Institute Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

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Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

Signature of the Guide

**G.AMALA DEVI**  
MTECH

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

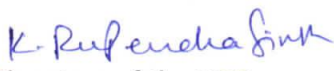
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING




## CERTIFICATE

This is to certify that the Project report entitled **OBJECT DETECTION USING DEEP LEARNING** is being submitted by Mr./Miss/Ms **M.Bhargavi** in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

  
Signature of the Guide

**B.Lakshman Rao**  
MTECH(phd)

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **DETECTION OF X-RAY COVID-19 BY USING X-RAY IMAGES** is being submitted by Mr./Miss/Ms **Aravind**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*K. Rupendra Singh*  
Signature of the Guide

**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**



# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **PLANT DISEASE DETECTION USING CNN ALGORITHM WITH DEEP LEARNING** is being submitted by Mr./Miss/Ms **P.Sravani**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

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*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*G. Amaladevi*  
Signature of the Guide

**G.AMALA DEVI**  
MTECH

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **PLANT DISEASE DETECTION USING CNN ALGORITHM WITH DEEP LEARNING** is being submitted by Mr./Miss/Ms **K. Sai Sanjana**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under my guidance.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

*K. Rupendra Singh*

Signature of the HOD

K.RUPENDRA SINGH  
MTECH(Phd)

*G. Amaladevi*

Signature of the Guide

G.AMALA DEVI  
MTECH

**External Examiner**

## VISAKHA TECHNICAL CAMPUS

Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)

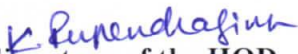
57<sup>th</sup> Division, Narava, Visakhapatnam-530027.


(2021-2022)



### CERTIFICATE

This is to certify that is project report is entitled “Sentiment Analysis On Movie Reviews Using Naïve Bayes Theorem” by G.SILPA (186G1A0508) under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

  
Signature of the HOD  
K.RUPENDRA SINGH  
MTECH (Ph.D)

  
Signature of the Guide  
K.RUPENDRA SINGH  
MTECH (Ph.D)

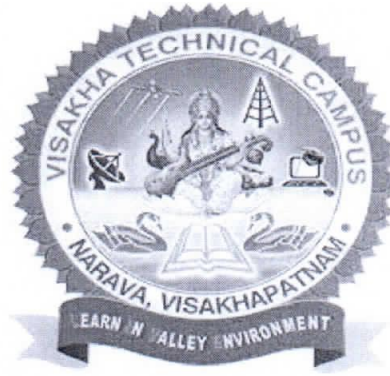
External Examiner

## VISAKHA TECHNICAL CAMPUS

Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)

57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



### CERTIFICATE

This is to certify that is project report is entitled “**Sentiment Analysis On Movie Reviews Using Naïve Bayes Theorem**” by K.ASWINI (186G1A0512) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh*

Signature of the HOD  
K.RUPENDRA SINGH  
MTECH (Ph.D)

*K. Rupendra Singh*

Signature of the Guide  
K.RUPENDRA SINGH  
MTECH (Ph.D)

External Examiner

**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled **Sentiment Analysis On Movie Reviews Using Naïve Bayes Theorem**” by M.JOGESH (186G1A0513) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh.*  
Signature of the HOD  
**K.RUPENDRA SINGH**  
**MTECH (Ph.D)**

*K. Rupendra Singh*  
Signature of the Guide  
**K.RUPENDRA SINGH**  
**MTECH (Ph.D)**

**External Examiner**

## VISAKHA TECHNICAL CAMPUS

Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)

57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



### CERTIFICATE

This is to certify that is project report is entitled “**Sentiment Analysis On Movie Reviews Using Naïve Bayes Theorem**” by G.KONDA BABU (196G5A0502) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh*

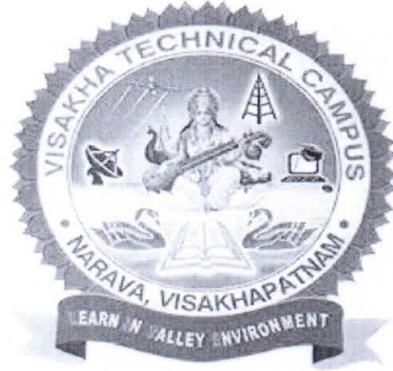
Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

*K. Rupendra Singh*

Signature of the Guide  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

External Examiner

**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Sentiment Analysis On Movie Reviews Using Naïve Bayes Theorem**” by CH. SUBHAKAR (186G1A0504) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh*  
Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

*K. Rupendra Singh*  
Signature of the Guide  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

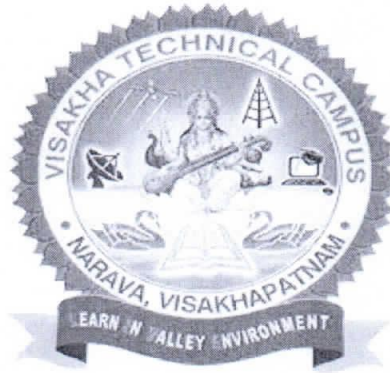
External Examiner

## VISAKHA TECHNICAL CAMPUS

Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)

57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



### CERTIFICATE

This is to certify that is project report is entitled “**Stock Market Price Prediction By Using LSTM**” by T.ANIL (186G1A0519) Under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh*

Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

*B. Lakshman*

Signature of the Guide  
**B. LAKSHMAN RAO**  
MTECH (Ph.D)

External Examiner



**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Stock Market Price Prediction By Using LSTM**” by G.PENNY PAUL (186G1A0523) Under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh*  
Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

*B. Lakshman*  
Signature of the Guide  
**B. LAKSHMAN RAO**  
MTECH (Ph.D)

**External Examiner**

## VISAKHA TECHNICAL CAMPUS

Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)


57<sup>th</sup> Division, Narava, Visakhapatnam-530027.


(2021-2022)



### CERTIFICATE

This is to certify that is project report is entitled “**Stock Market Price Prediction By Using LSTM**” by T. RAVINDRA REDDY (186G1A0518) Under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

  
Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

  
Signature of the Guide  
**B. LAKSHMAN RAO**  
MTECH (Ph.D)

External Examiner

**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Stock Market Price Prediction By Using LSTM**” by B. SAI CHARAN (196G5A0501) Under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh*  
Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

*B. Lakshman*  
Signature of the Guide  
**B. LAKSHMAN RAO**  
MTECH (Ph.D)


**External Examiner**


**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Object Detection Using Deep Learning**” by B. PAVAN (186G1A0501) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

  
Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

  
Signature of the Guide  
**G.AMALA DEVI**  
MTECH

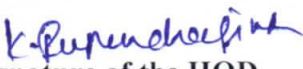
External Examiner


**VISAKHA TECHNICAL CAMPUS**  
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**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Object Detection Using Deep Learning**” by R.DURGA BAVANI (186G1A0516) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

  
Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

  
Signature of the Guide  
**G.AMALA DEVI**  
MTECH

**External Examiner**

**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Object Detection Using Deep Learning**” by N. RAKESH (186G1A0514) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh*

Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

*G. Amala Devi*

Signature of the Guide  
**G.AMALA DEVI**  
MTECH

External Examiner

## VISAKHA TECHNICAL CAMPUS

Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)

57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



### CERTIFICATE

This is to certify that is project report is entitled “**Object Detection Using Deep Learning**” by G .SAI KRISHNA (186G1A0524) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

Signature of the Guide  
**G.AMALA DEVI**  
MTECH

External Examiner

## VISAKHA TECHNICAL CAMPUS

Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)

57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



### CERTIFICATE

This is to certify that is project report is entitled “**Facial Expression Recognition Using Deep Learning**” by T . BRAHMA REDDY (186G1A0520) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

Signature of the Guide  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

External Examiner



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Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Facial Expression Recognition Using Deep Learning**” by S. DEEPTHI (186G1A0517) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh*  
Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

*K. Rupendra Singh*  
Signature of the Guide  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

**External Examiner**

## VISAKHA TECHNICAL CAMPUS

Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)

57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



### CERTIFICATE

This is to certify that is project report is entitled “**Facial Expression Recognition Using Deep Learning**” by CH. RUPA LAVANYA (186G1A0503) Under our Guidance and Supervision is submitted in partial fulfilment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

Signature of the Guide  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)


External Examiner


**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Diabetes Prediction Using Machine Learning**” by P.SAIKUMAR (186G1A0515) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

  
Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

  
Signature of the Guide  
**G.AMALA DEVI**  
MTECH

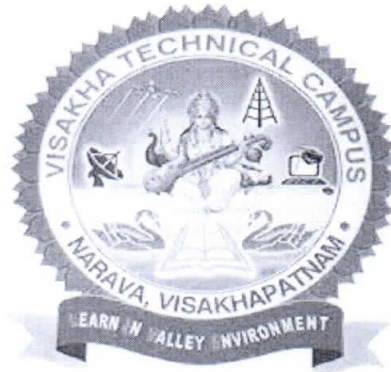
**External Examiner**

## VISAKHA TECHNICAL CAMPUS

Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)

57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



### CERTIFICATE

This is to certify that is project report is entitled “**Diabetes Prediction Using Machine Learning**” by S.SANJAY (186G1A0523) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh*

Signature of the HOD  
K.RUPENDRA SINGH  
MTECH (Ph.D)

*G. Amala Devi*

Signature of the Guide  
G.AMALA DEVI  
MTECH

External Examiner

## VISAKHA TECHNICAL CAMPUS

Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)

57<sup>th</sup> Division, Narava, Visakhapatnam-530027.

(2021-2022)



### CERTIFICATE

This is to certify that is project report is entitled “**Diabetes Prediction Using Machine Learning**” by G. NOOKARATNAM (186G1A0506) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh*

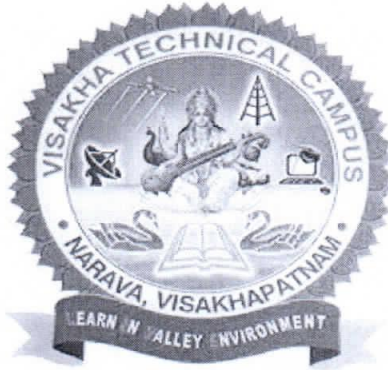
Signature of the HOD  
**K.RUPENDRA SINGH**  
MTECH (Ph.D)

*G. Amala Devi*

Signature of the Guide  
**G.AMALA DEVI**  
MTECH

External Examiner

**VISAKHA TECHNICAL CAMPUS**  
Affiliated to JNTU KAKINADA and approved by AICTE (NEW DELHI)  
**57<sup>th</sup> Division, Narava, Visakhapatnam-530027.**  
**(2021-2022)**



**CERTIFICATE**

This is to certify that is project report is entitled “**Diabetes Prediction Using Machine Learning**” by G. AJAY (186G1A0505) under our Guidance and Supervision is submitted in partial fulfillment of the requirements for the Degree of Bachelor of Technology in **COMPUTER SCIENCE AND ENGINEERING** of Jawaharlal Nehru Technological University Kakinada. This project was done in the Academic Year 2021-2022.

*K. Rupendra Singh*  
Signature of the HOD  
**K.RUPENDRA SINGH**  
**MTECH (Ph.D)**

*G. Amala Devi*  
Signature of the Guide  
**G.AMALA DEVI**  
**MTECH**

**External Examiner**

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Project report entitled **VIRTUAL MOUSE USING HAND GUESTURE** is being submitted by Mr./Miss/Ms **B.DurgaPrasanth**, in partial fulfillment for the award of B. Tech in **Visakha Institut Of Engineering And Technology** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him / her under my guidance.

The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree.

*K. Rupendra Singh*  
Signature of the HOD

**K.RUPENDRA SINGH**  
MTECH(Phd)

*K. Rupendra Singh*  
Signature of the Guide

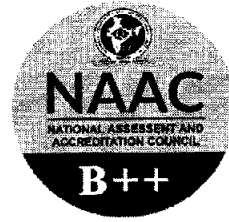
**K.RUPENDRA SINGH**  
MTECH(Phd)

**External Examiner**



# VISAKHA

INSTITUTE OF ENGINEERING & TECHNOLOGY  
APPROVED BY AICTE, NEW DELHI  
(Affiliated to JNTUK, Kakinada)  
57<sup>th</sup> Division, GVMC, Narava, Visakhapatnam  
DIPLOMA | ENGINEERING DIPLOMA | ENGINEERING



COLLEGE CODE  
**VSPT**

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### LIST OF STUDENTS UNDERTAKING PROJECT WORK

A.Y: 2021 - 2022

BATCH NO.	HALL TICKET	NAME OF THE STUDENT	PROJECT TITLE
1	19NT5A0404	G.SIVA KUMARI	INDUSTRIAL MACHINE MONITORING AND ALERTING SYSTEM
	19NT5A0403	G.BALA PRAVEENA KUMARI	
	18NT1A0408	P.VENKATESH	
	19NT5A0412	P.ANUSHA	
2	19NT5A0407	M.JYOTHI SWAROOP	DETECTION OF HEART BLOCKS USING CT SCAN IMAGE
	18NT1A0405	D.KALYAN	
	18NT1A0404	D.VIJAYA	
	18NT1A0403	C.H HEMALATHA	
3	19NT5A0411	P.URMILA	HOME AUTOMATION USING NODE MCU
	19NT5A0406	K.ATCHIRAJU	
	19NT5A0401	A.LAXMI	
	19NT5A0413	M.SIRISHA	



4	19NT5A0402	B.JAYASURYA	HIGH SPEED MULTIPLIER DESIGN BY USING VLSI HYBRID ADDER
	18NT1A0406	P.S.PRUDVI	
	18NT1A0402	B.VEKATESWARLU REDDY	
	18NT1A0407	B.ASHLESHA	
5	196G5A0406	P.MOHAN SAI	WIRELESS POWER TRANSMITTING HIGHWAYS
	196G5A0401	A.V.L.N SWAMI	
	186G1A0411	T.LAKSHMI	
	186G1A0407	M.V.V YATESH	
	186G1A0405	K.VENKATESH	
6	196G5A0405	V.MANASA	DESIGN AND ANALYSIS OF MICROSTRIP ANTENNA USING HFSS
	186G1A0409	N.TEJARAMA SANTOSHSRI	
	186G1A0408	M.YELLAJI	
	186G1A0403	G.SAI GOWTHAM REDDY	
7	196G5A0403	R.TEJASREE	BORROW SELECT SUBTRACTOR FOR LOW POWER AND AREA EFFICIENCY
	196G5A0402	G.PAVAN KUMAR	
	186G1A0413	M.L.APOORVA	
	186G1A0412	K.PAWAN KALYAN	
	196G5A0404	R.RAVINDRA BABU	

*A. V. Jayasuri*  
HOD

*[Signature]*  
PRINCIPAL

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “HOME AUTOMATION USING NODE MCU” that is being submitted by **P.URMILA (Regd No: 19NT5A0411)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

**Project Guide**  
**MR. BIGHNESWAR PANDA, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**

**Head of the Department**  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**

**EXTERNAL EXAMINER**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

**2021 - 2022**



## **CERTIFICATE**

This is to certify that the Project entitled “HOME AUTOMATION USING NODE MCU” that is being submitted by **M.SIRISHA (Regd No: 19NT5A0413)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

**Project Guide**  
**MR. BIGHNESWAR PANDA, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**

**Head of the Department**  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**

**EXTERNAL EXAMINER**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “HOME AUTOMATION USING NODE MCU” that is being submitted by **A.LAXMI (Regd No: 19NT5A0401)**, in partial fulfillment for the award of **B.Tech degree in Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

**Project Guide**  
**MR. BIGHNESWAR PANDA, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**

**Head of the Department**  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**

**EXTERNAL EXAMINER**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “HOME AUTOMATION USING NODE MCU” that is being submitted by **K.ATCHIRAJU (Regd No: 19NT5A0406)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

**Project Guide**  
**MR. BIGHNESWAR PANDA, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**

**Head of the Department**  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**

**EXTERNAL EXAMINER**


**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

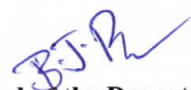
**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**HIGH SPEED MULTIPLIER DESIGN BY USING VLSI HYBRID ADDER**” that is being submitted by **B.VENKATESWARLU REDDY (Regd No: 18NT1A0402)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
**Project Guide**  
**CH.Srikanth, M.Tech**  
**Assistant Professor**  
**Dept.of ECE**

  
**Head of the Department**  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**


**EXTERNAL EXAMINER**

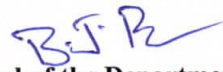
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**  
**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**HIGH SPEED MULTIPLIER DESIGN BY USING VLSI HYBRID ADDER**” that is being submitted by **P.S PRUDVI (Regd No: 18NT1A0406)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
Project Guide  
**CH.Srikanth, M.Tech**  
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Head of the Department  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
Associate Professor  
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**EXTERNAL EXAMINER**


**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**


**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**HIGH SPEED MULTIPLIER DESIGN BY USING VLSI HYBRID ADDER**” that is being submitted by **P.ASHLESHA (Regd No: 18NT1A0407)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
**Project Guide**  
**CH.Srikanth, M.Tech**  
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**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
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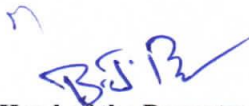
**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled **“HIGH SPEED MULTIPLIER DESIGN BY USING VLSI HYBRID ADDER”** that is being submitted by **B.JAYA SURYA (Regd No: 19NT5A0402)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
**Project Guide**  
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**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**  
**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**INDUSTRIAL MACHINE MONITORING AND ALERTING SYSTEM**” that is being submitted by **P.VENKATESH** (Regd No: 18NT1A0408), in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

*E. Bhanu Prakash*

**Project Guide**  
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*B. Jeevan Rao*

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**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

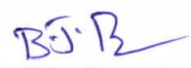
**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**INDUSTRIAL MACHINE MONITORING AND ALERTING SYSTEM**” that is being submitted by **G.BALA PRAVEENA KUMARI** (Regd No: 19NT5A0403), in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
**Project Guide**  
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**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

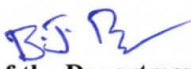
**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**INDUSTRIAL MACHINE MONITORING AND ALERTING SYSTEM**” that is being submitted by **G.SIVA KUMARI** (Regd No: 19NT5A0404), in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
Project Guide  
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Dept.of ECE

  
Head of the Department  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
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**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

**2021 - 2022**



## **CERTIFICATE**

This is to certify that the Project entitled “**INDUSTRIAL MACHINE MONITORING AND ALERTING SYSTEM**” that is being submitted by **P.ANUSHA (Regd No: 19NT5A0412)**, in partial fulfillment for the award of **B.Tech degree in Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

*E. Bhanu Prakash*  
Project Guide  
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Dept.of ECE

*B.J.R*  
Head of the Department  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
Associate Professor  
Dept.of ECE

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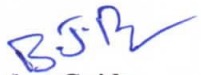
**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**


**2021 - 2022**



### **CERTIFICATE**

This is to certify that the Project entitled “**DETECTION OF HEART BLOCKS USING CT SCAN IMAGE**” that is being submitted by **CH.HEMALATHA (Regd No: 18NT1A0403)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
**Project Guide**  
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**Associate Professor**  
**Dept.of ECE**

  
**Head of the Department**  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**


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**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**  
**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**DETECTION OF HEART BLOCKS USING CT SCAN IMAGE**” that is being submitted by **D.VIJAYA (Regd No: 18NT1A0404)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
**Project Guide**  
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**Associate Professor**  
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**Head of the Department**  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
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**2021 - 2022**



**CERTIFICATE**

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**Project Guide**  
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**Associate Professor**  
**Dept. of ECE**

  
**Head of the Department**  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept. of ECE**

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**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**


**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**DETECTION OF HEART BLOCKS USING CT SCAN IMAGE**” that is being submitted by **M.JYOTHI SWAROOP** (Regd No: **19NT5A0407**), in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha institute of Engineering and technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
**Project Guide**  
**Mr.B JEEVAN RAO, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**

  
**Head of the Department**  
**Mr. B JEEVAN RAO, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**

**EXTERNAL EXAMINER**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
VISAKHA TECHNICAL CAMPUS**

**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**BORROW SELECT SUBTRACTOR FOR LOW POWER & AREA EFFICIENCY**” that is being submitted by **K.PAVAN KALYAN** (Regd No: 186G1A0412), in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during 2021-2022, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
Project Guide

**Mr. B.RAMESH KUMAR, M.Tech**  
Assistant Professor  
Dept.of ECE



Head of the Department  
**Mr. B.JEEVAN RAO, M.Tech (Ph.D)**  
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**EXTERNAL EXAMINER**

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**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**BORROW SELECT SUBTRACTOR FOR LOW POWER & AREA EFFICIENCY**” that is being submitted by **M.L.APOORVA** (Regd No: 186G1A0413), in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

*B Ramesh Kumar*

**Project Guide  
Mr. B.RAMESH KUMAR, M.Tech  
Assistant Professor  
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*B.J.R*

**Head of the Department  
Mr. B.JEEVAN RAO, M.Tech (Ph.D)  
Associate Professor  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**VISAKHA TECHNICAL CAMPUS**

**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

**2021 - 2022**



## **CERTIFICATE**

This is to certify that the Project entitled “**BORROW SELECT SUBTRACTOR FOR LOW POWER & AREA EFFICIENCY**” that is being submitted by **G.PAVAN KUMAR (Regd No: 196G5A0402)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
Project Guide

**Mr. B.RAMESH KUMAR, M.Tech**  
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Dept.of ECE



Head of the Department  
**Mr. B.JEEVAN RAO, M.Tech (Ph.D)**  
Associate Professor  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
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**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**BORROW SELECT SUBTRACTOR FOR LOW POWER & AREA EFFICIENCY**” that is being submitted by **R.TEJASREE (Regd No: 196G5A0403)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

*B. Ramesh Kumar*

Project Guide

**Mr. B.RAMESH KUMAR, M.Tech**

Assistant Professor

Dept.of ECE

*B. Jeevan Rao*

Head of the Department

**Mr. B.JEEVAN RAO, M.Tech (Ph.D)**

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**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled **“BORROW SELECT SUBTRACTOR FOR LOW POWER & AREA EFFICIENCY”** that is being submitted by **R.RAVINDRA BABU (Regd No: 196G5A0404)**, in partial fulfillment for the award of **B.Tech degree in Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

*B. Ramesh Kumar*

Project Guide

**Mr. B.RAMESH KUMAR, M.Tech**

Assistant Professor

Dept.of ECE

*B.J.R.*

Head of the Department

**Mr. B.JEEVAN RAO, M.Tech (Ph.D)**

Associate Professor


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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**VISAKHA TECHNICAL CAMPUS**  
**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**  
**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**DESIGN AND ANALYSIS OF MICROSTRIP ANTENNA USING HFSS**” that is being submitted by **G.SAI GOWTHAM REDDY (Regd No: 186G1A0403)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
**Project Guide**  
**Mr. C.H.SRIKANTH, M.Tech**  
**Assistant Professor**  
**Dept.of ECE**

  
**Head of the Department**  
**Mr. B.JEEVAN RAO, M.Tech (Ph.D)**  
**Associate Professor**  
**Dept.of ECE**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
VISAKHA TECHNICAL CAMPUS**

**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**

**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**DESIGN AND ANALYSIS OF MICROSTRIP ANTENNA USING HFSS**” that is being submitted by **M.YELLAJI (Regd No: 186G1A0408)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

*Sri*  
**Project Guide**  
**Mr. C.H.SRIKANTH, M.Tech**  
**Assistant Professor**  
**Dept.of ECE**

*B.J.R*  
**Head of the Department**  
**Mr. B.JEEVAN RAO, M.Tech (Ph.D)**  
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**EXTERNAL EXAMINER**





**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**VISAKHA TECHNICAL CAMPUS**  
**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**  
**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**DESIGN AND ANALYSIS OF MICROSTRIP ANTENNA USING HFSS**” that is being submitted by **N.TEJA RAMA SANTHOSHSRI (Regd No: 186G1A0409)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
**Project Guide**  
**Mr. C.H.SRIKANTH, M.Tech**  
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**Head of the Department**  
**Mr. B.JEEVAN RAO, M.Tech (Ph.D)**  
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**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**DESIGN AND ANALYSIS OF MICROSTRIP ANTENNA USING HFSS**” that is being submitted by **V.MANASA** (Regd No: **196G5A0405**), in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
Project Guide  
**Mr. C.H.SRIKANTH, M.Tech**  
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Dept.of ECE

  
Head of the Department  
**Mr. B.JEEVAN RAO, M.Tech (Ph.D)**  
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**EXTERNAL EXAMINER**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
VISAKHA TECHNICAL CAMPUS**


**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**


**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled **“WIRELESS POWER TRANSMITTING HIGHWAYS”** that is being submitted by **K.VENKATESH (Regd No: 186G1A0405)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
Project Guide  
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Associate Professor  
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Head of the Department  
**Mr. B.JEEVAN RAO, M.Tech (Ph.D)**  
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**EXTERNAL EXAMINER**

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**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**WIRELESS POWER TRANSMITTING HIGHWAYS**” that is being submitted by **M.V.V YATESH (Regd No: 186G1A0407)**, in partial fulfillment for the award of **B.Tech degree in Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
Project Guide  
**Mr. B.JEEVAN RAO, M.Tech (Ph.D)**  
Associate Professor  
Dept.of ECE

  
Head of the Department  
**Mr. B.JEEVAN RAO, M.Tech (Ph.D)**  
Associate Professor  
Dept.of ECE


**EXTERNAL EXAMINER**

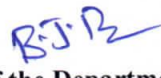
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**VISAKHA TECHNICAL CAMPUS**  
**88<sup>th</sup> DIVISION GVMC, NARAVA, VISAKHAPATNAM – 530027**  
**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**WIRELESS POWER TRANSMITTING HIGHWAYS**” that is being submitted by **T.LAKSHMI (Regd No: 186G1A0411)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
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VISAKHA TECHNICAL CAMPUS**


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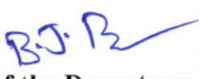
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**CERTIFICATE**

This is to certify that the Project entitled “**WIRELESS POWER TRANSMITTING HIGHWAYS**” that is being submitted by **A.V.L.N SWAMY (Regd No: 196G5A0401)**, in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
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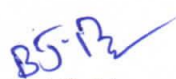
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**2021 - 2022**



**CERTIFICATE**

This is to certify that the Project entitled “**WIRELESS POWER TRANSMITTING HIGHWAYS**” that is being submitted by **P.MOHAN SAI** (Regd No: 196G5A0406), in partial fulfillment for the award of **B.Tech** degree in **Electronics and Communication Engineering** during **2021-2022**, in **Visakha Technical Campus**, affiliated to **JNTUK University**, is a record of bonafide work carried out by him under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

  
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Head of the Department  
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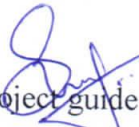
This is to certify that the project report entitled '**MECHANICAL BEHAVIOUR OF SIMILAR METALS FOR SS316 & INCONEL 617 USING TIG**' is being submitted by

**KASIMAHANATHI V S SARASHCHANDRA**

**19NT5A0338**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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Project guide

  
Head of the Department

External Examiner



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**MERUGU RAJA RAO**

**19NT5A0349**

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**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



**CERTIFICATE**

This is to certify that the project report entitled '**AERODYNAMIC ANALYSIS ON CARS WITH VORTEX GENERATORS USING CFD**' is being submitted by

**BHOGI SRIKANTH**

**19NT5A0308**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**AERODYNAMIC ANALYSIS ON CARS WITH VORTEX GENERATORS USING CFD**' is being submitted by

**ANGA VINAY**

**19NT5A0304**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**AERODYNAMIC ANALYSIS ON CARS WITH VORTEX GENERATORS USING CFD**' is being submitted by

**KOLLI SRINIVAS**

**19NT5A0339**

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**SURLA GOVINDA**

**19NT5A0379**

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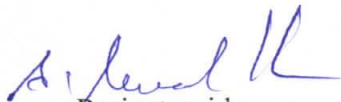
This is to certify that the project report entitled '**AERODYNAMIC ANALYSIS ON CARS WITH VORTEX GENERATORS USING CFD**' is being submitted by

**MUDILI DORABABU**

**19NT5A0357**

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**CERTIFICATE**


This is to certify that the project report entitled '**INVESTIGATION OF THERMAL PROPERTIES OF A POLYMER MATRIX COMPOSITE REINFORCED WITH FOXTAIL PALM SEEDS POWDER**' is being submitted by

**BONU KIRAN KUMAR**

**19NT5A0309**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**PYLA SRI RAMA MURTHY NAIDU**

**19NT5A0369**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**BALIREDDY JITENDRA**

**19NT5A0306**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**KAMMILA SAI PAVAN KUMAR**

**18NT1A0309**

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**BATTULA GANGA VENKATA VARA PRASAD**

**18NT1A0304**

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**CERTIFICATE**

This is to certify that the project report entitled '**TRANSIENT ANALYSIS OF RADIAL ENGINE**' is being submitted by

**MOHAMMAD AARIF**

**19NT5A0352**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**


This is to certify that the project report entitled '**TRANSIENT ANALYSIS OF RADIAL ENGINE**' is being submitted by

**CHERUKURI SANTHOSH KUMAR**

**19NT5A0395**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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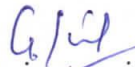
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**KARI DHARMENDRA**

**19NT5A0336**

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This is to certify that the project report entitled '**TRANSIENT ANALYSIS OF RADIAL ENGINE**' is being submitted by

**ANGA SRINIVAS**

**19NT5A0303**

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**KUNCHANGI NOOKARATNAM**

**19NT5A0343**

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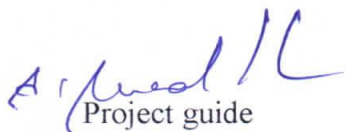
This is to certify that the project report entitled '**STRENGTH AND IMPACT ANALYSIS OF COMPOSITE BULLET PROOF JACKET**' is being submitted by

**UGGINA JAGADEESH**

**19NT5A0384**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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This is to certify that the project report entitled '**STRENGTH AND IMPACT ANALYSIS OF COMPOSITE BULLET PROOF JACKET**' is being submitted by

**KONA NOOKA RAJU**

**19NT5A0340**

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**CHUCHUKONDA SAI KUMAR**

**18NT1A0306**

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This is to certify that the project report entitled '**STRENGTH AND IMPACT ANALYSIS OF COMPOSITE BULLET PROOF JACKET**' is being submitted by

**GUSIDI RAJKUMAR**

**19NT5A0330**

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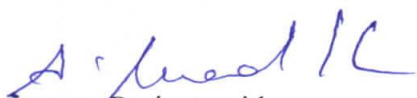
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**PRASHANTH BISAI**

**19NT5A0368**

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**CERTIFICATE**

This is to certify that the project report entitled '**SOLAR POWERED MULTY PURPOSE MACHINE FOR AGRICULTURAL USE**' is being submitted by

**VADISALA SAISASIDHAR**

**19NT5A0386**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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This is to certify that the project report entitled '**SOLAR POWERED MULTY PURPOSE MACHINE FOR AGRICULTURAL USE**' is being submitted by

**KAKI KESAVA REDDY**

**19NT5A0333**

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**CERTIFICATE**

This is to certify that the project report entitled '**SOLAR POWERED MULTY PURPOSE MACHINE FOR AGRICULTURAL USE**' is being submitted by

**SARIPALLI GANGADHAR**

**19NT5A0373**

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Head of the Department

External Examiner



**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada, Accredited to NAAC)

**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



**CERTIFICATE**

This is to certify that the project report entitled '**SOLAR POWERED MULTY PURPOSE MACHINE FOR AGRICULTURAL USE**' is being submitted by

**SOM IREDDI PHANEENDRA**

**18NT1A0322**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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Project guide

  
Head of the Department

External Examiner

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**CERTIFICATE**

This is to certify that the project report entitled '**SOLAR POWERED MULTY PURPOSE MACHINE FOR AGRICULTURAL USE**' is being submitted by

**BANKA NAGA RAJU**

**19NT5A0307**

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External Examiner

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**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



**CERTIFICATE**

This is to certify that the project report entitled '**DESIGN ANALYSIS OF PISTON ENGINE**' is being submitted by

**VADRA MADHU BHARGAV**

**19NT5A0387**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

A handwritten signature in blue ink, appearing to be 'A', is written above the text 'Project guide'.

Project guide

A handwritten signature in blue ink, appearing to be 'G. Siva Kumar', is written above the text 'Head of the Department'.

Head of the Department

External Examiner

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

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**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



**CERTIFICATE**


This is to certify that the project report entitled '**DESIGN AND CONTROL OF 6 DOF OF ROBOTIC ARM**' is being submitted by

**MANTRI VAMSI KRISHNA**

**19NT5A0347**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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Head of the Department

External Examiner

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**CERTIFICATE**

This is to certify that the project report entitled '**DESIGN AND CONTROL OF 6 DOF OF ROBOTIC ARM**' is being submitted by

**GURUBILLI SANTOSH KUMAR**

**19NT5A0329**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**DESIGN AND CONTROL OF 6 DOF OF ROBOTIC ARM**' is being submitted by

**MODALAVALASA JEETHENDRASAI**

**19NT5A0351**

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**CERTIFICATE**

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**PALLELA KARTHIK**

**19NT5A0362**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**


This is to certify that the project report entitled '**DESIGN AND CONTROL OF 6 DOF OF ROBOTIC ARM**' is being submitted by

**LAKKARAJU ANIL KUMAR**

**19NT5A0345**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

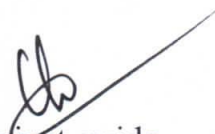
This is to certify that the project report entitled '**AIR FLOW BASED AERODYNAMIC BEHAVIOR OF THE TAIL WING OF A F1 CAR**' is being submitted by

**MANJI INDAL KUMAR**

**19NT5A0346**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**


This is to certify that the project report entitled '**AIR FLOW BASED AERODYNAMIC BEHAVIOR OF THE TAIL WING OF A F1 CAR**' is being submitted by

**DUDI SAITEJA**

**19NT5A0321**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

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**SIRISETTI MARIYA KUMAR**

**19NT5A0376**

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**CERTIFICATE**

This is to certify that the project report entitled '**AIR FLOW BASED AERODYNAMIC BEHAVIOR OF THE TAIL WING OF A F1 CAR**' is being submitted by

**DIKKOLU VAMSI KRISHNA**

**19NT5A0317**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

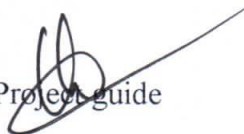
This is to certify that the project report entitled '**AIR FLOW BASED AERODYNAMIC BEHAVIOR OF THE TAIL WING OF A F1 CAR**' is being submitted by

**SANAPATHI RAJA**

**19NT5A0372**

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**CERTIFICATE**


This is to certify that the project report entitled '**DESIGNE AND ANALYSIS OF ENGINE FINS**' is being submitted by

**CHIPPALA MANOHAR SAI**

**19NT5A0310**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**DESIGNE AND ANALYSIS OF ENGINE FINS**' is being submitted by

**SIRAGAM DILEEPKUMAR**

**19NT5A0375**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**


This is to certify that the project report entitled '**DESIGNE AND ANALYSIS OF ENGINE FINS**' is being submitted by

**VEERLA BALAJI**

**19NT5A0390**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**DESIGNE AND ANALYSIS OF ENGINE FINS**' is being submitted by

**YERIPILLI RAM BABU**

**19NT5A0394**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**DESIGNE AND ANALYSIS OF ENGINE FINS**' is being submitted by

**ANAPARTHI VINAY**

**19NT5A0302**

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**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



**CERTIFICATE**

This is to certify that the project report entitled '**INVESTIGATIONS OF SUTABILITY OF WALLNUT SHELLPOWDER AND PISTA SHELL POWDER AS AN ALTERNATIVE ADDITVIVE IN SYNTHATIC GREEN SAND MOULDING SYSTEM**' is being submitted by

**CHITIKELA LAVANYA**

**19NT5A0311**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**PEDANAYUNI VIJAY**

**19NT5A0364**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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Project guide  


  
Head of the Department

External Examiner

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**PENKE TARUN AKSHAY**

**18NT1A0317**

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**ADARI SHYAM SUNDAR**

**19NT5A0301**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**GORLI MURALI**

**19NT5A0328**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**FABRICATION AND ANALYSIS OF E-GLASS CHOPPED STRAND FIBER AND BASALT FIBER HYBRID COMPOSITE WITH CRAB SHELL POWDER AS FILLER MATERIAL**' is being submitted by

**DORA REVATHI SAI DEEPTHI**

**19NT5A0320**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**KOYYA UDAY KUMAR REDDY**

**19NT5A0342**

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*V. Ch*  
Project guide

*C. Siva Kumar*  
Head of the Department

External Examiner

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**MEDASETTI SATYA PRASAD**

**19NT5A0348**

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**PERLA DURGAPRASAD**

**18NT5A0373**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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*V. Ch*  
Project guide

*Gr. Siva Kumar*  
Head of the Department

External Examiner

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**DESAMSETTI KASU BABU**

**19NT5A0316**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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*V. cto*  
Project guide

*Dr. Siva Kumar*  
Head of the Department

External Examiner

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**CERTIFICATE**

This is to certify that the project report entitled '**DESIGN ANALYSIS OF PISTON ENGINE**' is being submitted by

**RAVADA DHANARAJU KUMAR**

**19NT5A0371**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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**CERTIFICATE**

This is to certify that the project report entitled '**DESIGN ANALYSIS OF PISTON ENGINE**' is being submitted by

**TADI VAMSI**

**19VT5A0380**

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**CERTIFICATE**

This is to certify that the project report entitled '**DESIGN ANALYSIS OF PISTON ENGINE**' is being submitted by

**TAMADA RAVI**

**18NT1A0323**

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**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



**CERTIFICATE**

This is to certify that the project report entitled '**DESIGN ANALYSIS OF PISTON ENGINE**' is being submitted by

**APALABATHULA PRASAD**

**19NT5A0305**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

Project guide

Head of the Department

External Examiner



**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

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**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



**CERTIFICATE**

This is to certify that the project report entitled '**FABRICATION AND ANALYSIS OF E-GLASS CHOPPED STRAND FIBER AND BASALT FIBER HYBRID COMPOSITE WITH CRAB SHELL POWDER AS FILLER MATERIAL**' is being submitted by

**THALABATHULA SURI SHANMUKHA**

**19NT5A0382**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

*v.ch*  
Project guide

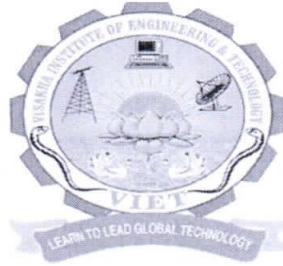
*G. Siva Kumar*  
Head of the Department

External Examiner

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**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



**CERTIFICATE**


This is to certify that the project report entitled '**DESIGN OF SOLAR TRACKER WITH THE AGRRICULTURE PUMP**' is being submitted by

**VEMPADA ARAVINDREDDY**

**19NT5A0391**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

  
Project guide

  
Head of the Department

External Examiner

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**CERTIFICATE**


This is to certify that the project report entitled '**DESIGN OF SOLAR TRACKER WITH THE AGRICULTURE PUMP**' is being submitted by

**DUGGAPU SRINIVASA RAO**

**19NT5A0322**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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Project guide

  
Head of the Department

External Examiner

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**CERTIFICATE**


This is to certify that the project report entitled '**DESIGN OF SOLAR TRACKER WITH THE AGRRICULTURE PUMP**' is being submitted by

**MIRIYALA JAGADEESHWAR RAO**

**19NT5A0350**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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Head of the Department

External Examiner

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**CERTIFICATE**


This is to certify that the project report entitled '**DESIGN OF SOLAR TRACKER WITH THE AGRRICULTURE PUMP**' is being submitted by

**MOLLI VENKATA KIRAN**

**19NT5A0355**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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Project guide

  
Head of the Department

External Examiner

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**CERTIFICATE**

This is to certify that the project report entitled '**DESIGN OF SOLAR TRACKER WITH THE AGRICULTURE PUMP**' is being submitted by

**KAMPARA SAI KUMAR**

**19NT5A0334**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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Head of the Department

External Examiner

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**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



**CERTIFICATE**

This is to certify that the project report entitled '**EXPERIMENTAL INVESTIGATION AND ANALYSIS OF MECHANICAL PROPERTIES OF NATURAL COMPOSITES**' is being submitted by

**JAKKANA SUDHEER KUMAR**

**19NT5A0332**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

  
Project guide

  
Head of the Department

External Examiner

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**CERTIFICATE**

This is to certify that the project report entitled '**EXPERIMENTAL INVESTIGATION AND ANALYSIS OF MECHANICAL PROPERTIES OF NATURAL COMPOSITES**' is being submitted by

**PABBISSETTI VINAY**

**18NT1A0316**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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Head of the Department

External Examiner



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**CERTIFICATE**

This is to certify that the project report entitled '**EXPERIMENTAL INVESTIGATION AND ANALYSIS OF MECHANICAL PROPERTIES OF NATURAL COMPOSITES**' is being submitted by

**KARRI DILEEP**

**19NT5A0337**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

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Project guide

  
Head of the Department

External Examiner

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**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



**CERTIFICATE**

This is to certify that the project report entitled '**EXPERIMENTAL INVESTIGATION AND ANALYSIS OF MECHANICAL PROPERTIES OF NATURAL COMPOSITES**' is being submitted by

**DOKKADA KALYAN**

**19NT5A0319**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

  
Project guide

  
Head of the Department

External Examiner

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada, Accredited to NAAC)  
**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



## CERTIFICATE

This is to certify that the project report entitled '**EXPERIMENTAL INVESTIGATION AND ANALYSIS OF MECHANICAL PROPERTIES OF NATURAL COMPOSITES**' is being submitted by

**CHITTA HEMANTH**

**19NT5A0312**

In partial fulfillment for the award of the Degree of Bachelor of Technology in Mechanical Engineering submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

Project guide

Head of the Department

External Examiner



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57<sup>th</sup> Division, Narava, Visakhapatnam  
DIPLOMA | ENGINEERING | MANAGEMENT



Department of  
**AME**

DEPARTMENT OF AUTOMOBILE ENGINEERING

LIST OF STUDENTS UNDERTAKING PROJECT

A.Y : 2021 - 2022

Sl.No	Batch No	Team Members Roll	Team Members Names	Guide	Project Title
1	1	19NT5A2403	RAO	G.SIVA KARUNA	INVESTIGATION OF MECHANICAL PROPERTIES ON POLYMER MATRIX COMPOSITES USING IN AUTOMOTIVE INDUSTRY
2		19NT5A2406	KOMMURI YETHENDRA VIGNESH		
3		19NT5A2409	PYDIKONDALA SRI RAGHU VAMSI		
4		19NT5A2410	SHAIK BALISHAHEED		
5		19NT5A2413	VALLABHANENI RAVITEJA		
6	2	19NT5A2404	DUNNA GOSAI VAMSI KRISHNA	K.JAGADESWARA RAO	DISMANTLING OF FOUR STROKE PETROL ENGINE USING SOP AND 5 S TECHNIQUES
7		19NT5A2405	GANTA TEJESWARA RAO		
8		19NT5A2411	SUGGU LOKESWARA RAO		
9		19NT5A2414	DEMULA ANIL KUMAR		
12	3	18NT1A2401	PAMPANA SAI JAYANTH	K.JAGADESWARA RAO	REDUCING THE SOP PERIOD OF GEARBOX AND STEERING SYSTEM DIS- ASSEMBLY
13		18NT1A2402	RANIMEKALA ESWAR		
14		19NT5A2402	BONTHU SATYA JAGADEESH		
15		19NT5A2412	TANKALA SAI CHARAN		

  
HOD

  
PRINCIPAL

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**

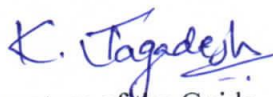
This is to certify that is project report is entitled “**INVESTIGATION OF MECHANICAL PROPERTIES ON POLYMER MATRIX COMPOSITES USING IN AUTOMOTIVE INDUSTRY**” is being submitted by


**V. RAVI TEJA**

**19NT5A2413**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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

  
Signature of the Guide

  
Signature of the HoD

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**


This is to certify that is project report is entitled “**INVESTIGATION OF MECHANICAL PROPERTIES ON POLYMER MATRIX COMPOSITES USING IN AUTOMOTIVE INDUSTRY**” is being submitted by

**SK. BALI SHAHEED**

**19NT5A2410**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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Signature of the Guide

  
Signature of the HoD

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**

This is to certify that is project report is entitled “**INVESTIGATION OF MECHANICAL PROPERTIES ON POLYMER MATRIX COMPOSITES USING IN AUTOMOTIVE INDUSTRY**” is being submitted by

**K.YETHENDR3 AVIGNESH**

**19NT5A2406**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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

*K. Jagadeesh*

Signature of the Guide

*[Signature]*

Signature of the HoD

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**

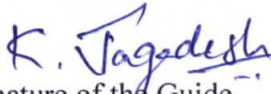
This is to certify that is project report is entitled “**REDUCING THE SOP PERIOD GEARBOX AND STEERING SYSTEM DIS-ASSEMBLY**” is being submitted by


**T. SAI CHARAN**

**19NT5A2412**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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Signature of the Guide

  
Signature of the HoD

**External Examiner**



**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**


This is to certify that is project report is entitled “**REDUCING THE SOP PERIOD GEARBOX AND STEERING SYSTEM DIS-ASSEMBLY**” is being submitted by

**B. SATYA JADEESH**

**19NT5A2402**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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Signature of the Guide

  
Signature of the HoD

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**

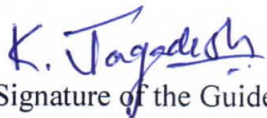
This is to certify that is project report is entitled “**REDUCING THE SOP PERIOD GEARBOX AND STEERING SYSTEM DIS-ASSEMBLY**” is being submitted by

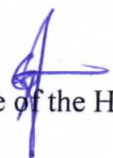
**P. SAI JAYANTH**

**18NT1A2401**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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Signature of the Guide

  
Signature of the HoD

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**

This is to certify that is project report is entitled “**DISMANTLING OF FOUR STROKE PETROL ENGINE USING SOP AND 5’S TECNNIQUES**” is being submitted by

**G.TEJESWARA RAO**

**(19NT5A2405)**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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Signature of the Guide

Signature of the HoD

**External Examiner**

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**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**


This is to certify that is project report is entitled “**DISMANTLING OF FOUR STROKE PETROL ENGINE USING SOP AND 5'S TECNNIQUES**” is being submitted by


**S.LOKESWARA RAO**

**(19NT5A2411)**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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Signature of the Guide

  
Signature of the HoD

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**


This is to certify that is project report is entitled “**DISMANTLING OF FOUR STROKE PETROL ENGINE USING SOP AND 5'S TECNNIQUES**” is being submitted by


**V.ANIL KUMAR**

**(19NT5A2414)**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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Signature of the HoD

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**


This is to certify that is project report is entitled “**DISMANTLING OF FOUR STROKE PETROL ENGINE USING SOP AND 5’S TECNNIQUES**” is being submitted by


**D.G.VAMSI KRISHNA**

**(19NT5A2404)**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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Signature of the Guide

  
Signature of the HoD

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**


This is to certify that is project report is entitled “**INVESTIGATION OF MECHANICAL PROPERTIES ON POLYMER MATRIX COMPOSITES USING IN AUTOMOTIVE INDUSTRY**” is being submitted by


**P. SRI RAGHU VAMSI**

**19NT5A2409**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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Signature of the Guide

  
Signature of the HoD

**External Examiner**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**

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**Y. HARI SRINIVASA RAO**

**19NT5A2403**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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*K. Jagadeesh*

Signature of the Guide

*[Signature]*

Signature of the HoD

**External Examiner**



**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**


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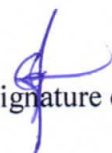
**R. ESWAR**

**18NT1A2402**

In partial fulfillment for the award of B. Tech in **AUTOMOBILE ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonfire work carried out by him/her under my guidance.

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Signature of the Guide

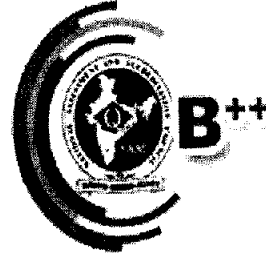
  
Signature of the HoD

**External Examiner**



# VISAKHA

INSTITUTE OF ENGINEERING & TECHNOLOGY  
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57<sup>th</sup> Division, Narava, Visakhapatnam  
DIPLOMA | ENGINEERING | MANAGEMENT



Department of  
**MBA**

DEPARTMENT OF MBA

PROJECT TITLES


A.Y : 2021 - 2022

L.No	Regd No	Student name	Specilization	Project title
1	20NT1E0001	ALLADA BHARATHI	FIN	Technical analysis in stock market
2	20NT1E0002	ALLADA NITHISH	HR	Employee Relations(Dr. Reddy)
3	20NT1E0006	BODDETI RAMA DEVI	HR	Corporate social responsibility(RINL)
4	20NT1E0008	CHOPPA ANIL KUMAR	HR	Employee welfare measures(Dr.Reddy)
5	20NT1E0010	DATTI HARISH KUMAR	HR	Employee welfare measures
6	20NT1E0011	DEVARAKONDA SURENDRA KUMAR	HR	job satisfaction
7	20NT1E0012	HARMALA VENKATA PAVAN KALYA	HR	Recruitment & selection
8	20NT1E0013	GANDI RESHMA	HR	Employee welfare measures(HPCL)
9	20NT1E0014	GORLE BHARATHI	HR	Performance appraisal(BHEL)
10	20NT1E0015	GORLI VANAJA	HR	Employee welfare measures(BHEL)
11	20NT1E0018	INNEVILLI SHALINI SWAROOPA	HR	Training & development
12	20NT1E0019	JAGADISH BABU GEDALA	HR	Recruitment & selection(RELIANCE)
13	20NT1E0021	KANDRAGULA GOVARDHINI	FIN	Ratio Analysis(BHEL)
14	20NT1E0022	KASIMHANTHI P RAO	HR	Performance appraisal system(vijaya organics)
15	20NT1E0023	KOMARTHI SAI RAM	HR	Employee welfare measures(HSL)
16	20NT1E0024	KONATHALA KOMALI KUMARI	HR	Training & development(BHEL)
17	20NT1E0026	MADISA SUNITHA	HR	Performance appraisal
18	20NT1E0028	MITUKULLA VENKATA NARAYANA	HR	Recruitment & selection(BHEL)
19	20NT1E0030	N VENKATESWARAO RAO CH	HR	Overview of HR PRACTICES (STEELPLANT)
20	20NT1E0032	NAKKINA NAVEEN	MK	Evaluation of sales promotion(bigbazar)

21	20NT1E0034	PADAMATA SAIRAM	FIN	Ratio Analysis
22	20NT1E0036	PECHETI SAI VIJAYA LAKSHMI	HR	HR Policies(BHEL)
23	20NT1E0037	PEMMADI LAVANYA	HR	Recruitment & selection
24	20NT1E0038	PILAVALASA DIVYA	FIN	Working capital management
25	20NT1E0040	POLA VASANTA KUMARI	HR	Employee job satisfaction
26	20NT1E0041	POTLAPALLI ANUPAMA	HR	job satisfaction(CARE)
27	20NT1E0042	PRITHAM SURANA	HR	performance appraisal
28	20NT1E0043	PUKKALA RAJESWARI	HR	Employee job satisfaction
29	20NT1E0044	PYLA PRIYANKA	HR	Employee job satisfaction(HPCL)
30	20NT1E0045	R. MADHURYA	HR	Employee welfare measures
31	20NT1E0047	RAMAKANTH KANDIVALASA	HR	JOB SATISFACTION
32	20NT1E0049	REDDY SYAMALA	FIN	MUTUAL FUNDS
33	20NT1E0054	SHAIK ASHIA PARVINE	HR	Training & development
34	20NT1E0055	SHAIK SAMEER	MK	Sales & promotions
35	20NT1E0056	SIMHADRI SIVASAI DHARMA	HR	performance appraisal
36	20NT1E0057	SINDIRI VASAVI	HR	Recruitment & selection
37	20NT1E0058	SIRILINGA BHARATHI	HR	Training practices
38	20NT1E0061	TELUKULA NAVEEN KUMAR	HR	Training & development
39	20NT1E0062	THADI SANTOSH	MK	customer relationship management(HYUNDAI)
40	20NT1E0063	THOTA VAMSI RANJAN BABU	MK	Customer satisfaction(NANO)
41	20NT1E0064	VARRI SATYA CHANDRA SEKHAR	HR	Training & development
42	20NT1E0065	VIDYADHARAN VINESH KUMAR	HR	Training and development(HSL)

  
HOD

  
PRINCIPAL

Dr.Reddy's 

Dr.Reddy's Laboratories Ltd.  
CTO Unit – VI  
IDA, Pydibhimavaram (Village)  
Ranastalam Mandal,  
Srikakulam Dist – 532 409  
A.P, India.

Tel : 91 8942 288131, 288114  
Fax : 91 8942 288114  
www.drreddys.com

Date: 10-12-2021

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that that Mr. ALLADA NITHISH, Regd. No: 20NT1E0002 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. has done project work "EMPLOYEE RELATIONS" in Dr.Reddy's Laboratories Limited, Visakhapatnam from 25-10-2021 to 30-11-2021 in our organization.

Mr. ALLADA NITHISH is enthusiastic and diligent is completing the above mentioned assignment

We wish him all the best in her future.

For Dr.Reddy's Laboratories Limited.

For Dr. Reddy's Laboratories Limited

  
Mr. LAKSHMI NARAYANA  
Asst. General Manager  




VIZAG  
STEEL  
Pride of Orissa

# Visakhapatnam Steel Plant Visakhapatnam

## MANAGEMENT DEVELOPMENT



*This is to certify that the following student has undergone Project  
Work / Training at Visakhapatnam Steel Plant*

Name of the Student : BODDETI RAMADEVI

Regd./Trainee No : 20NT1E0006

Course : MBA

Name of the Institute : Visakha Institute of Engineering &  
Technology, Narava,  
Project Topic : Corporate Social Responsibility w.r.t  
RINL - Vizag Steel Plant

Period of Training : 05/10/2021 TO 30/11/2021

*His/Her conduct during the period of training was found to be*

— OUTSTANDING —

VISAKHAPATNAM

Date

Felicitator

Asst. GM (HRD)

RINL, Visakhapatnam

Dr.Reddy's 

Dr.Reddy's Laboratories Ltd.  
CTO Unit - VI  
IDA, Pydibhimavaram (Village)  
Ranastalam Mandal,  
Srikakulam Dist - 532 409  
A.P, India.

Tel : 91 8942 288131, 288114  
Fax : 91 8942 288114  
www.drreddys.com

Date: 10-12-2021

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that that Mr. CHOPPA ANIL KUMAR, Regd. No: 20NT1E0008 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. has done project work "Employee Welfare Measures" in Dr.Reddy's Laboratories Limited, Visakhapatnam from 03-06-2019 to 06-07-2019 in our organization.

Mr. CHOPPA ANIL KUMAR is enthusiastic and diligent in completing the above mentioned assignment.

We wish him all the best in her future.

For Dr.Reddy's Laboratories Limited.

For Dr. Reddy's Laboratories Limited



Contact no: +91 9347225321

E-mail: info.hmies@gmail.com

Date: 30<sup>TH</sup> NOV 2021

Respected Sir,

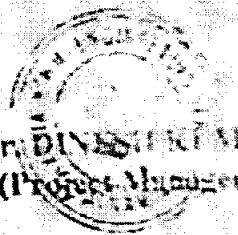
Sub: Project Completion Letter

**TO WHOM IT MAY CONCERN**

This is to certify that Mr. DATTI HARISH KUMAR (REGID: Z011T1E0010) S/O DATTI PAPA PAO Student of M.B.A (Visakha Institute of Engineering & Technology, HARVA), has successfully completed project at HMI Engineering Services. From 24-10-2021 to 30-11-2021. During this period with us the project under taken was "EMPLOYEE WELFARE MEASURES".

We wish her every success in life

With Thanks & Regards.

  
Mr. DIVESH KUMAR  
(Project Manager)



Q1 Hospitals  
For Quality Since 1981

Date: 10-12-2021

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that that Mr. DEVARAKONDA SURENDRA KUMAR, Regd. No: 20NTIE0011 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed her project work on "JOB SATISFACTION" with reference to Q1 HOSPITAL, Visakhapatnam for a period from 26-10-2021 to 30-11-2021 as a part of curriculum requirement.

During the period she has shown keen interest in learning various aspects related to her project work. Her performance and conduct the period is good. We wish her all success in future endeavors.

Q1 Hospitals





# JAIN ENGINEERING SERVICE PVT LTD

(An ISO 9001:2015 Certified Company)

Respected Sir,

Sub: Project Completion Letter

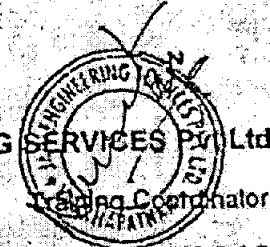
## TO WHOM IT MAY CONCERN

This is to certify that Mr. D. VENKATA PAVAN KALYAN (Roll NO: 20NT1E0012) Student of Visakha Institute of Engineering and Technology (Vishakhapatnam, ANDHRA PRADESH), has successfully completed project at Jain Engineering Services Pvt Ltd. From 24<sup>th</sup> OCT,2021 to 30<sup>th</sup> NOV,2021, For a period of 35days. During this period with us the project under taken was "Recruitment and Selection Process"

We wish him every success in life

With Thanks & Regards.

For JAIN ENGINEERING SERVICES PVT Ltd



Mr. G. NAGA MANIKANTA RAO

Industrial Office  
NO11,8-65,  
CHAITANYA Nagar,  
Auto Nagar,  
Vishakhapatnam,  
Andhra Pradesh 530046,  
Phno:7674925609,  
Email: -Info.jainpvtltd@gmail.com

Local Office  
Flat no:101,  
Rajasekhar Residency,  
Sri Nagar,  
Near V-Hotel,  
Vishakhapatnam,  
Andhra Pradesh 530016,  
Phno:9347225321,  
Email: -Info.jainpvtltd@gmail.com



Date: 10-12-2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that that Ms. G. RESHMA, Regd.No:20NTIE0013 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed her project work on "EMPLOYEE WELFARE OF MEASURES" with reference to Hindustan Petroleum Corporation Limited, Visakhapatnam for a period from 26-10-2021 to 10-12-2021 as a part of curriculum requirement.

During the period she has shown keen interest in learning various aspects related to her project work. Her performance and conduct the period is good. We wish her all success in future endeavors.

With best regards to,  
M. SURESH MOHAN  
Sr. Manager  
HPCL-VR



14  
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

हेवी प्लेट्स एंड वेशल्स प्लांट, विशाखापत्तनम - 530012, आ.प्र., भारत

**Bharat Heavy Electricals Limited**

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/07/2021


CERT.NO:6463/11/11/21

Date: 14.12.2021

CERTIFICATE

This is to certify that Miss. GORLE BIHARATHI D/o Shri GORLE UMA MAHESWARA RAO studying MBA(HR) in Visakh Institute of Engineering & Technology, Narava, Visakhapatnam. Has done Project Work on "A STUDY ON PERFORMANCE APPRAISAL" in BHEL-HPVP,VISAKHAPATNAM, from 11-11-2021 to 10-12-2021.

During the above period her CONDUCT & CHARACTER were found Very Good and we wish her a bright future.

  
(G. Kuru Murthy)

Dy. General Manager (HRDC & Security)



15  
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

हेवी प्लेट्स एंड वेसल्स प्लांट, विसखापत्ताम - 530012, अ.प्र., भारत.

**Bharat Heavy Electricals Limited**

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/07/2021

CERT.NO:6466/11/11/21

Date: 14.12.2021

CERTIFICATE

This is to certify that Miss. GORLI VANAJA D/o Shri GORLI RAMBABU studying MBA(HR) in Visakha Institute of Engineering & Technology, Narava, Visakhapatnam. Has done Project Work on "A STUDY ON WELFARE MEASURING" in BHEL-HPVP VISAKHAPATNAM, from 11-11-2021 to 10-12-2021.

During the above period her CONDUCT & CHARACTER were found Very Good and we wish her a bright future.

  
(G Kuru Murthy)

Dy. General Manager (HRDC & Security)



**HOTEL**  
*Daspalla*  
FOR UNIQUE HOSPITALITY

Suryabagh, Visakhapatnam - 530 020, A.P., INDIA, Ph.: 2584825 (6 Lines), 2503141 (4 Lines), Fax : 91 - 0831 - 2502043  
Visit us at : [www.daspallahotels.com](http://www.daspallahotels.com), E-mail : [hoteldaspalla@gmail.com](mailto:hoteldaspalla@gmail.com), [dspvizag1@rediffmail.com](mailto:dspvizag1@rediffmail.com).  
For Instant Reservation : Call National Toll Free No. 1800-425 4225

---

Date: 10-12-2021

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that that Ms. INNEVILLI SHALINI SWAROOPA, Regd.No:20NT1E0018 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed her project work on "TRAINING AND DEVELOPMENT" with reference to HOTEL DASPALLA, Visakhapatnam for a period from 26-10-2021 to 10-12-2021 as a part of curriculum requirement.

During the period she has shown keen interest in learning various aspects related to her project work .Her performance and conduct the period is good. We wish her all success in future endeavors.



# Reliance Fresh

Date: 10-12-2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr.JAGADISH BABU GEDALA, Regd. No: 20NTIE0019 student of VISAKHIA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. has done project work "RECRUITMENT & SELECTION" in RELIANCE FRESH, Visakhapatnam from 26-10-2021 to 30-11-2021 in our organization.

Her character and conduct was found to be good

We wish her all the best in her future career.





भारत हेवी इलेक्ट्रिकल्स लिमिटेड

हेवी प्लेट्स एंड वॉसल्स प्लांट, विशाखापत्तनम - 530012, आ.प्र., भारत.

Bharat Heavy Electricals Limited

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/07/2022

CERT.NO:6504/04/01/22

Date: 17.03.2022

CERTIFICATE

This is to certify that Miss. KANDRAGULA GOVARDHINI D/o Shri K VIJAY VENKATA APPARAO studying MBA (Finance) in Visakha Institute of Engineering & Technology, VISAKHAPATNAM. Has done Project Work on "A STUDY ON RATIO ANALYSIS" in BHEL-HPVP VISAKHAPATNAM, from 04-01-2022 to 03-02-2022.

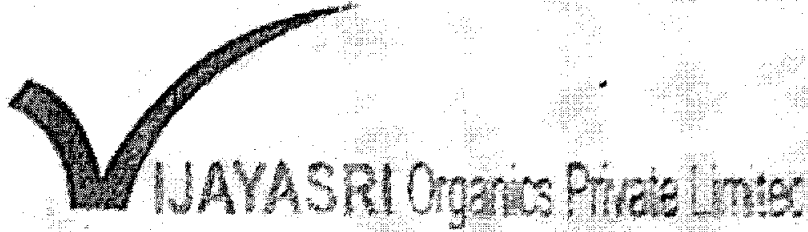
During the above period her CONDUCT & CHARACTER were found Very Good and we wish her a bright future.

(G Kuru Murthy)

Dy. General Manager (HRDC & Security)

डा. कुरु मूर्थी (जी.के.एम.)  
Dy. General Manager (HRDC & Security)  
वी.एच.ई.प्ल., एच.पी.वी.ए./BHEL-HPVP,  
विशाखापत्तनम/VISAKHAPATNAM-530012

Tel. No. 0891-6681280, Fax: 6681700, e-mail: [xxxx@bhel.in](mailto:xxxx@bhel.in), website: [www.bhel.com](http://www.bhel.com)



Date: 10-12-2021

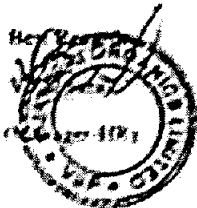
TO WHOM SO EVER IT MAY CONCERN

This is to certify that that Mr. KASIMHANTHI P RAO, Regd. No: 20NT1E0022 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed his project work on "Performance Appraisal System" with reference to Vijayasri Organics Ltd, Visakhapatnam for a period from 25-10-2021 to 30-11-2021 as a part of curriculum requirement. During the period he has shown keen interest in learning various aspects related to his project work.

His performance and conduct the period is good.

We wish his all success in future endeavors.

Best Regards,







**TRAINING DEPARTMENT**  
**Hindustan Shipyard Ltd.**

(A Govt. of India Undertaking)  
Gandhinagar  
VISAKHAPATNAM - 530 005 (INDIA)  
(An ISO - 9001:2000 Company)

प्रशिक्षण विभाग

**हिन्दुस्तान शिपयार्ड लि.**

(भारत सरकार का उपक्रम)

गंधीनगर

विशाखपट्टणम - 530 005 (भारत)

(आई.एस.ओ. - 9001:2000 कंपनी)

Date: 10-12-2021

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that that Mr. KOMARTH SAI RAM, Regd.No:20NTIE0023 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed his project work on "PERFORMANCE APPRAISAL" with reference to HINDUSTAN SHIPYARD Ltd, Visakhapatnam for a period from 26-10-2021 to 10-12-2021 as a part of curriculum requirement.

During the period he has shown keen interest in learning various aspects related to his project work .His performance and conduct the period is good. We wish his all success in future endeavors.

G.PERUMAL



पंजीकृत कार्यालय : 209 & 209 A विक्रमटॉवर, 16 राजेन्द्र प्लेस, नई दिल्ली - 110 008 (भारत)

Registered Office : 406, Vikram Tower, 16 Rajendra Place, New Delhi - 110 008 (INDIA)

Fax : (+91 891) 2577502, 2577358 (C&MD's Office) 2577567 (DD&SR), 2577038 (E&M)

Grams : Shipyard, Visakhapatnam. E-mail hsl@hslvizag.com. Web: www.hsl.nic.in



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

24

हेवी प्लेट्स एंड वेसल्स प्लांट, विसाखपत्तनम - 530012, आ.प्र., भारत.

**Bharat Heavy Electricals Limited**

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., India

Ref: HRDC/07/2021


CERT.NO:6462/11/11/21

Date: 14.12.2021

CERTIFICATE

This is to certify that Miss. KONATHALA KOMALI KUMARI D/o Shri KONATHALA NOOKARAJU studying MBA(HR) in Visakh Institute of Engineering & Technology, Narava, Visakhapatnam. Has done Project-Work on "A STUDY ON TRAINING AND DEVELOPMENT" in BHEL-HPVP VISAKHAPATNAM, from 11-11-2021 to 10-12-2021.

During the above period her CONDUCT & CHARACTER were found Very Good and we wish her a bright future.

  
(G Kuru Murthy)  
Dy. General Manager (HRDC & Security)



**Sujana Metal Products Limited**

(Heavy Structural Division)  
Sanpada Village Rajeevnagar  
Visakhapatnam 530 046. (A.P.) INDIA

Regd Office  
Survey No 294/7/19 I.O.A. Bollaram  
Jinnaram Mandal, Medak Dist. (A.P.) INDIA

T +91 891 2587804/298528/48/49  
F +91 891 2753321  
E structural\_vsp@sujana.com  
W www.sujana.com  
T +91 8458 279355  
F +91 8458 279051  
E amplesim@sujana.com

Date: 10-12-2021

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that that Ms. MADISA SUNITHA, Regd.No:20NTIE0026, student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed her project work on "PERFORMANCE APPRAISAL" with reference to SUJANA METEL PRODUCTS LIMITED. Visakhapatnam for a period from 26-10-2021 to 10-12-2021 as a part of curriculum requirement.

During the period she has shown keen interest in learning various aspects related to her project work. Her performance and conduct the period is good. We wish her all success in future endeavors.

Best regards to  
HR MANAGER





भारत हेवी इलेक्ट्रिकल्स लिमिटेड

ही व्हेरु वंग वेल्स प्लांट, विद्यापत्तनम - 530012, अ.प्र., भारत.

**Bharat Heavy Electricals Limited**

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/B/07/2021


CERT.NO:6464/11.11.21

Date: 14/12/2021

CERTIFICATE

This is to certify that Mr. MITUKULLA VENKATA NARAYANA S/o Shri MITUKULLA PULLAIAH studying MBA (HR) in Visakh Institute of Engineering & Technology, Narva, Visakhapatnam. Has done Project Work on "RECRUITMENT & SELECTION" in BHEL-HPVP Visakhapatnam, from 11-11-2021 to 10-12-2021.

During the above period his CONDUCT & CHARACTER were found Very Good and we wish him a bright future.

  
(G Kuru Murthy)  
Dy. General Manager (HRDC & Security)



**Visakhapatnam Steel Plant**  
Visakhapatnam

**MANAGEMENT DEVELOPMENT**



*This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant*

Name of the Student : N VENKATESWARA RAO

Regd./Trainee No : 20NT1E0030

Course : MBA

Name of the Institute : Visakha Institute of Engineering &  
Technology, Narava,  
Project Topic : Overview of HR Practices w.r.t  
RINL - Vizag Steel Plant

Period of Training : 05/10/2021 TO 30/11/2021

*His/Her conduct during the period of training was found to be*

— OUTSTANDING —

VISAKHAPATNAM

Date

Felicitor

G. R. M. RAO

Asst. GM (HRD)

RINL, Visakhapatnam Steel Plant

Visakhapatnam

Visakhapatnam

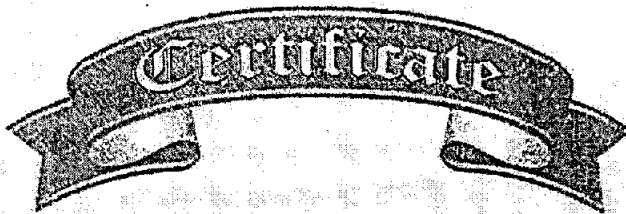
Visakhapatnam

Visakhapatnam



**Visakhapatnam Steel Plant**  
**Visakhapatnam**

**MANAGEMENT DEVELOPMENT**



*This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant*

Name of the Student : N VENKATESWARA RAO

Regd./Trainee No : 20NT1E0030

Course : MBA

Name of the Institute : Visakha Institute of Engineering & Technology, Narava,  
Project Topic : Overview of HR Practices w.r.t RINL - Vizag Steel Plant

Period of Training : 05/10/2021 TO 30/11/2021

*His/Her conduct during the period of training was found to be*

— OUTSTANDING —

VISAKHAPATNAM

Date

Feliciter

Asst. GM (HRD)

RINL, Visakhapatnam Steel Plant

Address: 501-Visakhapatnam-520 021

# BIG BAZAAR

NAVE INDIA KA BAZAAR

Date: 10-12-2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. NAKKINA NAVEEN Regd. No: 20NTIE0032 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam, has done project work "EVALUATION OF SALES PROMOTION" in BIG BAZAAR, Visakhapatnam from 25-10-2021 to 30-11-2021 in our organization.

Her character and conduct was found to be good

We wish her all the best in her future career.



# ADR ENGINEERING ENTERPRISES

(An ISO / IEC 20000-1-2011, ISO / IEC 27001 : 2013, Certified Company)

SPECIALIZED IN : ERECTION, PRECISION ALIGNMENT, OVERHAULING OF ROTATING MACHINERIES,  
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PAN No. ABRFA1364R, GSTIN : 37ABRFA1364R1Z0, UDYAM-AP-10-0011863: E-mail : adrengg.entp@gmail.com

OFFICE : # 43-20-1, KARTIKEYA NILAYAM, T.S.N. COLONY, VISAKHAPATNAM - 16. PH : 0891-2565551, Fax : 0891-2565552, Cell : 98481 95645

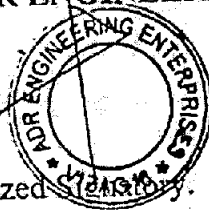
Date: 01.12.2021

## TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. PADAMATA SAIRAM has completed his training in our finance department during the period from 26.10.2021 to 30.11.2021. During his training period, we found him very sincere and hard working.

Thanking you and assuring our best prompt services at all times.

Very Truly Yours,  
For ADR ENGINEERING ENTERPRISES,

Authorized 





भारत हेवी इलेक्ट्रिकल्स लिमिटेड

हेवी प्लेट्स एंड वॉसॉल्स प्लांट, विराखापत्ताम - 530012, आ.प्र., भारत.

Bharat Heavy Electricals Limited

Heavy Plates & Vossols Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/07/2021

CERT.NO:6465/11/11/21

Date: 14.12.2021

CERTIFICATE

This is to certify that Miss. PECHETI SAI VIJAYA LAKSHIMI D/o Shri PECHETI APPALARAJU studying MBA(HR) in Visakhia Institute of Engineering & Technology, Narava, Visakhapatnam. Has done Project Work on "A STUDY ON HR POLICIES AND PRACTICES" in BHEL-HPVP VISAKHAPATNAM, from 11-11-2021 to 10-12-2021.

During the above period her CONDUCT & CHARACTER were found Very Good and we wish her a bright future.

(G Kuru Murthy) 14/12/21

Dy. General Manager (HRDC & Security)

Tel. No. 0891-6681280, Fax: 6681700, e-mail: [xxxx@bhel.in](mailto:xxxx@bhel.in), website: [www.bhel.com](http://www.bhel.com)



**SYNAPTICS LABS**  
PRIVATE LIMITED

Ref: HR\Intern\Cert\2021\11\028

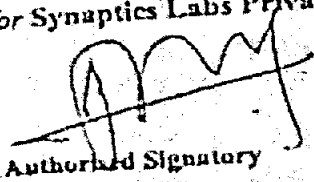
Date: 28<sup>th</sup> of November 2021 by a step ahead

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Pemmadi Lavanya, 20NT1E0037, a student of Masters of Business Administration in Visakha Institute of Engineering & Technology, Visakhapatnam has worked as an intern under my supervision at (Company name) in the HR department for a duration of 4 weeks from 29<sup>th</sup> of October 2021 to 27<sup>th</sup> November 2021 on 'RECRUITMENT AND SELECTION'

I am pleased to state that Ms. Pemmadi Lavanya has a good character, pleasing personality and shown keen interest on her work throughout the internship period. I wish her Good Luck for great beginnings.

for Synaptics Labs Private Limited.,



Authorized Signatory

Corporate Office:  
Plot No. 5-464, SVSS Nivas, Street No-1,  
Green Colony, Saralathnagar, Hyderabad

Vizag Office:  
Phase 3, Ward No. 36, H.No. 31-59 B-27,  
Plot No. 18

Plant 1  
Plot No. 29-B, Industrial Park



**SYNAPTICS LABS**  
PRIVATE LIMITED

Ref: HR\Intern\Cert\2021\11\1029

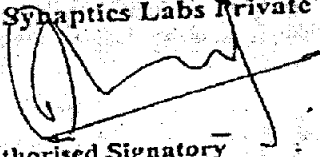
Date: 28<sup>th</sup> of November 2021 *a step ahead...*

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Palavalasa Divya, 20NT1E0038, a student of Masters of Business Administration in Visakha Institute of Engineering & Technology, Visakhapatnam has worked as an intern under my supervision at (Company name) in the HR department for a duration of 4 weeks from 29<sup>th</sup> of October 2021 to 27<sup>th</sup> November 2021 on 'WORKING CAPITAL Management'.

I am pleased to state that Ms. Palavalasa Divya has a good character, pleasing personality and shown keen interest on her work throughout the internship period. I wish her Good Luck for great beginnings

for Synaptics Labs Private Limited.,

  
Authorized Signatory

Corporate Office :  
Flat No. S-404, SVSS Nivas, Street No.1,  
Dheer Colony, Sanathnagar, Hyderabad.  
Pin Code - 500 016, Telangana, India.  
www.synapticslabs.com

Vizag Office :  
Phase-3, Ward No. 58, H.No. 31,69-9,17,  
Plot No. 76, Karmannipalem, Matruvi Nagar,  
Gopuraha, Visakhapatnam - 530 026,  
Andhra Pradesh, India.

Plant :  
Plot No. 25 B, Industrial Park,  
Antholapuram, APAC, Lefanoburu IV,  
Rambak (M), Visakhapatnam - 531 013,  
Andhra Pradesh, India.



Date: 05-12-2021

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that Ms. POLA VASANTA KUMARI, Regd. No: 20NTIE0040 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. has done project work "A STUDY ON EMPLOYEE JOB SATISFACTION" in SRI SAIRAM'S RITZ COMFORT, Visakhapatnam from 25-10-2021 to 30-11-2021 in our organization.

Her character and conduct was found to be good.

We wish her all the best in her future career.



---

47-10-2, Near Diamond Park, Dwaraka Nagar, Visakhapatnam,  
Andhra Pradesh 530016

Tel: +91 0891 2745553, +91 0891 2555999



**CARE**  
HOSPITALS

## CARE Hospitals Visakhapatnam

A.S Raja Complex, Waltair Main Road, Ramnagar, Visakhapatnam  
Tel: +91-891 3041444, Fax: +91-891-2714015, Email: info@carehospitals.com

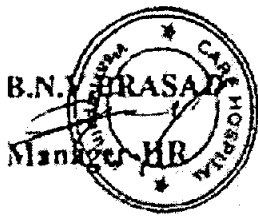
Date: 10-12-2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. POTLAPALLI ANUPAMA Regd. No: 20NT1E0041 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Has done project work "A STUDY ON JOB SATISFACTION" in Care Hospitals, Visakhapatnam from 25-10-2021 to 30-11-2021 in our organization.

Her character and conduct was found to be good

We wish her all the best in her future career.



# HIRAWATS

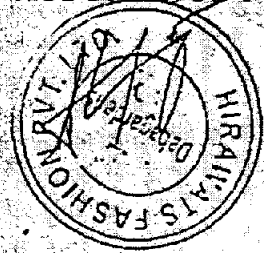
42

30<sup>th</sup> November 2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. PRITHAM SURANA has undergone his project on "PERFORMANCE APPRAISAL" under the guidance of Mr. ANIK HIRAWAT from 25<sup>th</sup> October 2021 to 30<sup>th</sup> November 2021 in our organization. He has successfully completed his project within the stipulated period and has done a comprehensive work.

HIRAWATS FASHION PVT. LTD.





हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारतीय मालिकता) पंजीकृत कार्यालय: 17, जवाहरलाल नेहरू रोड, मुंबई - 400 002

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE); REGISTERED OFFICE: 17, JAWAHARLAL NEHRU ROAD, MUMBAI-400 002



विशाख रिफाइनरी, पोस्ट बॉक्स नं. 15, विशाखपट्टणम - 530 011 (आंध्रप्रदेश) | फोन - 2895000, 2895100, तार - 802  
VISAKH REFINERY, POST BOX NO. 15, VISAKHAPATNAM-530 011 (A.P.), PHONES: 2895000, 2895100, CABLES: INDIAN PET

Date: 10-12-2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. P.PRIYANKA, Regd. No: 20NT1E0044 student of MBA. VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam, has done his work on the subject name of "EMPLOYEE SATISFACTION" Under the esteemed guidance of Mr.K.Rajeswara Rao from 26-10-2021 to 30-11-2021.

We wish her all the best in future.

With best regards to,  
M. SUDHA MOHANA  
Sr. Manager  
HPCL-VR



WE UNDERSTAND YOUR WORLD

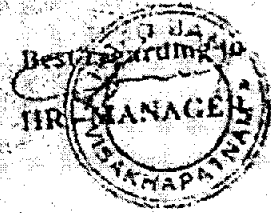
Door no: 50/06 5, PN 175, SEETAMMAHARA, VIZAG, VISAKHAPATNAM, AP. 530 013, PIN No: 09040193333  
www.hdfcindia.com

Date: 10-11-2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that that Ms. F. RAJESWARI, Regd.No:20NT1E0043, student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed her project work on "EMPLOYEE JOB SATISFACTION" with reference to to HDFC BANK, Visakhapatnam for a period from 26-10-2021 to 10-11-2021 as a part of curriculum requirement.

During the period she has shown keen interest in learning various aspects related to her project work. Her performance and conduct the period is good. We wish her all success in future endeavors.







हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड  
HINDUSTAN PETROLEUM CORPORATION LIMITED  
A CORPORATION OF AND A MEMBER OF THE PETROBRAND GROUP OF COMPANIES INCORPORATED IN INDIA



विशेष कार्यालय: प्लॉट नं. 15, विशाखापट्टण, तमिळुनाडु, भारत. फोन: 2095000, 2095100, 2095200  
VISAKHAPATNAM OFFICE: PLOT NO. 15, VISAKHAPATNAM, TAMIL NADU, INDIA. PHONE: 2095000, 2095100, 2095200

Date: 10-12-2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. R. MADHURYA, Regd. No: 20NT1E0045 student of MIRA, VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam, has done his work on the subject name of "EMPLOYEE WELFARE MEASURES" Under the esteemed guidance of Mr. K. Rajeswara Rao from 26-10-2021 to 30-11-2021.

We wish her all the best in future.

With best regards to,  
M. SUDHA MOHANA  
Sr. Assistant  
HPCL-VR



# HMI ENGINEERING SERVICES

An ISO 9001:2015 Certified  
Company

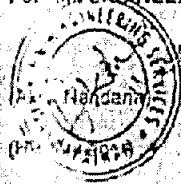


Sub: Project Completion Letter

## TO WHOM IT MAY CONCERN

This is to certify that Mr. Kandivalasa Ramakanth (Red NO: 20NT1E0047) Student of Visakha Institute of Engineering and Technology (Vishakhapatnam, ANDHRA PRADESH), has successfully completed project at HMI Engineering Services. From 24<sup>th</sup> OCT,2021 to 30<sup>th</sup> NOV,2021, For a period of 35days. During this period with us the project undertaken was "Job Satisfaction In Manufacturing and IT Services"

With Thanks & Regards,  
For HMI ENGINEERING SERVICES



Address: Flat NO 101, Rajasekhar Residency, Dwardaggar Road, Vskp

Phone: 9347225311, 7674925609, Email: info@hmi.es@gmail.com

Website: www.hmi.es.in

Scanned by Scanner Go



# STEEL CITY SECURITIES LIMITED

(CIN : L67120AP1995PLC019521)

AN ISO 9001 : 2015 CERTIFIED COMPANY

MEMBER OF NSE, BSE, BSEI, NICK & INDIA  
CAPITAL MARKET, EQUITY DERIVATIVES & CURRENCY DERIVATIVES SEGMENTS  
SEBI Regd. No. INZ 000223330

POINT OF PRESENCE OF NSDL CRA  
DEPOSITORY PARTICIPANT (DP) OF  
NSDL & CDSL

SEBI Regd. No. INZ 000223330

Date: 10-12-2021

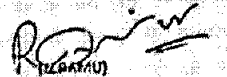
## TO WHOM SO EVER IT MAY CONCERN

This is to certify that that Ms. REDDI SYAMALA, Regd. No: 20NT1E0049 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed her project work on "PERFORMANCE AND EVALUATION OF SELCETED MUTAL FUNDS " with reference to STEEL CITY SECURITIES LTD, Visakhapatnam for a period from 26-10-2021 to 10-12-2021 as a part of curriculum requirement.

During the period she has shown keen interest in learning various aspects related to her project work. Her performance and conduct the period is good. We wish her all success in future endeavors.

With best regards to,

For STEEL CITY SECURITIES LIMITED

  
(R. Srinivas)



Regd. & Corporate Head Office : 09 L2 5/A, SHANTHIPURAM, VISAKHAPATNAM - 530 016

Phone : 2760004, 2549081, 2563081, 2762505 (TOLL FREE) 2548675-79, 2762572 (IN) 2761801 04. FAX : 0391-2720133 / 2762506

E-mail : [info@steelcitysecurities.com](mailto:info@steelcitysecurities.com), [scs@steelcitysecurities.com](mailto:scs@steelcitysecurities.com), Website : [www.steelcitysecurities.com](http://www.steelcitysecurities.com)



**HOTEL**  
**Daspalla**  
FOR UNIQUE HOSPITALITY

Suryabagh, Visakhapatnam - 530 020, A.P., INDIA. Ph: 2584823 (8 Lines), 2583141 (4 Lines), Fax: 91 - 0891 - 2582043  
Visit us at : [www.daspallahotel.com](http://www.daspallahotel.com), E-mail : [hoteldaspalla@gmail.com](mailto:hoteldaspalla@gmail.com), [daspallag1@rediffmail.com](mailto:daspallag1@rediffmail.com),  
For instant Reservation : Call National Toll Free No. 1800 426 4226

Date: 10-12-2021

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that that Ms. SHAIK ASHIA PARVINE, Regd. No: 20NT1E0054 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed her project work on "TRAINING PRACTICES" with reference to HOTEL DASPALLA, Visakhapatnam for a period from 26-10-2021 to 10-12-2021 as a part of curriculum requirement.

During the period she has shown keen interest in learning various aspects related to her project work. Her performance and conduct the period is good.

We wish her all success in future endeavors.



# JAIN ENGINEERING SERVICE PVT LTD

(An ISO 9001:2015 Certified Company)

Respected Sir,

Sir, Project Completion Letter

## TO WHOM IT MAY CONCERN

It is to certify that Mr. YARRI SATYA CHANDRA SEKHAR (Aad No. 20NT1ED064) Student of Visaha Institute of Engineering and Technology (Vishakhapatnam, ANDHRA PRADESH), has successfully completed project at Jain Engineering Services Pvt Ltd. From 24<sup>th</sup> OCT,2021 to 30<sup>th</sup> NOV,2021, For a period of 35 days. During this period the project which taken was "TRADING & DEVELOPMENT".

We wish him every success in life.

With Thanks & Regards,

For JAIN ENGINEERING SERVICE PVT LTD



Mr. G. NAGA CHAKRABARTI RAO

Industrial Office  
NO.11 & 65

CHAITANYA Nagar,

Auto Nagar,

Vishakhapatnam,

Andhra Pradesh 530016

Phone: 7674925409

Email: info.jainpvtltd@gmail.com

Local Office

Flat no.101,

Rajasekhar Residency,

Sri Nagar,

near V-Hotel,

Vishakhapatnam,

Andhra Pradesh 530016

Phone: 2447225321

Email: info.jainpvtltd@gmail.com



Bhive, Prestige towers, 9th floor,  
Residency road, Shanthala nagar,  
Bengaluru - 560025 Karnataka, IN  
[www.fleissig.co.in](http://www.fleissig.co.in)

Date: 21.12.2021

Shaik Sameer  
S/o Mastan Vali Shaik  
House # 10-1058-J, Jawaharnagar colony, Near Vijaya School  
Markapur, Prakasam, AP - 523316  
Mobile no. +91 70323-18162

**TO WHOM SO EVER IT MAY CONCERN**

Dear Sameer,

This is to certify that MR. SHAIK SAMEER Regd.No:20NTIE0055 student of VISAKHIA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed his project work with the reference to Fleissig solution private limited, Visakhapatnam for a period from 26-10-2021 to 10-12-2021 as a part of the curriculum requirement.

Yours Sincerely,  
for Fleissig Solution Private Limited

Ancilla Joyce Fernandes  
Director (HR & Admin)

**JAIN ENGINEERING SERVICE PVT LTD**  
(An ISO 9001:2015 Certified Company)

Respected Sir,

Sub: Project Completion Letter

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that that Mr. SIMHADRI SIVASAIDIRAMA, (Regd. No: 20NT1E0056) student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY (Visakhapatnam, ANDHRA PRADESH) has successfully completed project at Jain Engineering services Pvt Ltd, From 24<sup>th</sup> OCT, 2021 to 30<sup>th</sup> NOV, 2021 For a period of 35days. During his period with us the project under taken was "PERFORMANCE APPRAISAL"

We wish him every success in life

With Thanks & Regards

JAIN ENGINEERING





Date: 10-12-2021

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that that Mrs SINDIRI VASAVI. , Regd. No: Z0NT1E0057 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed his project work on "RECRUITMENT AND SELECTION" with reference to MANTRIS HOTEL, Visakhapatnam for a period from 25-10-2021 to 30-11-2021 as a part of curriculum requirement.

During the period he has shown keen interest in learning various aspects related to his project work. His performance and conduct the period is good. We wish her all the best in her future.



VIP Rd, Balaji Nagar, Asilmetta, Visakhapatnam, Andhra Pradesh 530003  
Email: Info.vizag@mantrishotel.com Phone : 088866 81929





भारत हेवी इलेक्ट्रिकल्स लिमिटेड

हेवी प्लेट्स एंड वेशल्स प्लांट, विरासापत्ताम - 530012, आ.प्र., भारत .

**Bharat Heavy Electricals Limited**

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Date: 10-12-2021

**TO WHOM SO-EVER IT MAY CONCERN**

This is to certify that that Ms. SIRILINGAM BIARATHI, Regd. No: 20NTIE0058 student of VISAKIIA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed her project work on "TRAINING PRACTICES" with reference to BHEL-HPVP, Visakhapatnam for a period from 26-10-2021 to 30-11-2021 as a part of curriculum requirement.

During the period she has shown keen interest in learning various aspects related to her project work. Her performance and conduct the period is good. We wish her all success in future endeavors.

(G Kuru Murthy) 12/2021

Dy. General Manager (HRDC & Security)

Dy. General Manager (HRDC & Security)  
BHEL-HPVP, VISAKHAPATNAM



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड  
(भारत सरकार संपत्ति) रजिस्टर्ड कार्यालय 17 जवाहरलाल नेहरू रोड, मुंबई 400 020  
**HINDUSTAN PETROLEUM CORPORATION LIMITED**



(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE: 17 JAWAHARLAL NEHRU ROAD, MUMBAI-400 020

विशाख रिफाइनरी पोस्ट बॉक्स नं. 15, विशाखापट्टणम - 530 011 (अ.प्र.) फोन - 2895000, 2895100, 2895200  
VISAKH REFINERY, POST BOX NO. 15, VISAKHAPATNAM-530 011 (A.P.), PHONES : 2895000, 2895100, GRAMS : H/PETRES

Date: 10-12-2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. T.NAVEEN KUMAR, Regd. No: 20NT1E0061 student of MBA, VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam, has done his work on the subject name of "TRAINING AND DEVELOPMENT w.r.t. HPCL" Under the esteemed guidance of Mr.K.Rajeswara Rao from 26-10-2021 to 30-11-2021.

We wish her all the best in future.

With best regards to,  
M. SUDHA MOHANA  
Sr. Manager  
HPCL-VR



## LAKSHMI HYUNDAI

(A Unit of Sri Jayalakshmi Automotives Pvt Ltd.)

38-39-66, Birla Jr. N.H.S Road, Visakhapatnam-530007

Tel 2733942, 2500854, Fax 0891- 2733941

Email lh\_vz@rediffmail.com

### CERTIFICATE

This is certify that the following student has undergone Mini Project Work at M/s Sri JayaLakshmi Automotives Pvt., Ltd, Visakhapatnam

Name of the Student : THADI SANTOSH  
Student Course : 20NT1E0062  
Name of the Institute : Visakha Institute of Engineering & Technology  
Project Topic : Customer Relationship Manager  
Project of Training : 25-10-2021 to 30-11-2021

During the tenure in the organization, we found his character and conduct was satisfactory.

We wish him all the success in his future endeavours.

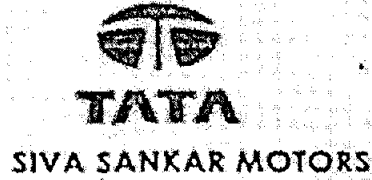
For Sri Jayalakshmi Automotives Pvt., Ltd

  
For Lakshmi Hundai

Y Apparao  
Manager-HR

#### SHOWROOM

9-1-224/2, CBM Compound, Rama Talikes Road, Visakhapatnam-5303, Tel 2717882/83/84, Fax 2711885  
71-8-4, Besides Spinning Mill, Near Lala Chervu, NH-5 Road, Rajahmundry-05, Tel 883-655 6788, 2431711/2



Date: 10-12-2021

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that Mr. THOTA VAMSI RANJAN BABU, Regd. No: 20NT1E0063 student of MBA, VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. has done his work on the subject name of "CUSTOMER SATISFACTION" Under the esteemed guidance of Mr.K.Rajeswara Rao (Marketing Executive), from 26-10-2021 to 30-11-2021.

Mr. THOTA VAMSI RANJAN BABU is enthusiastic and diligent in completing the above mentioned assignment.

We wish him all the best in future.

For Siva Sankar Motors Pvt.Ltd.

  
(Authorised Signatory)



TRAINING DEPARTMENT  
**Hindustan Shipyard Ltd.**

(A Govt. of India Undertaking)  
 Chandrapur  
 VISAKHAPATNAM 530 005 (INDIA)  
 (An ISO 9001:2000 Company)

విద్యాభ్యాస విభాగం  
**హిందూస్తాన్ షిప్ యార్డ్ లిమిటెడ్**  
 (ఆంధ్ర ప్రదేశ్ ప్రభుత్వం)  
 చంద్రాపూర్  
 విశాఖపట్నం 530 005  
 (ఆంధ్ర ప్రదేశ్, భారతదేశం)  
 (ఆంధ్ర ప్రదేశ్ ప్రభుత్వం)

Date: 10-12-2021

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that that Mr. VIDYADHARAN VINESH KUMAR, Regd. No: 20NT1E0065 student of VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Visakhapatnam. Completed his project work on "Training and Development" with reference to HINDUSTAN SHIPYARD Ltd, Visakhapatnam for a period from 26-10-2021 to 10-12-2021 as a part of curriculum requirement.

During the period he has shown keen interest in learning various aspects related to his project work. His performance and conduct the period is good. We wish his all success in future endeavors.

G.PERUMAL

Senior Manager  
 (Training & Development)



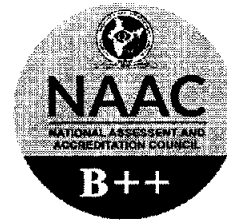

పరిశీలన కార్యాలయ : 209 & 209 A విక్రమ్ టవర్, 15 రాజేంద్రా ప్లేస్, న్యూఢిల్లీ

Registered Office : 406, Vikram Tower, 15 Rajendra Place, New Delhi  
 Fax : (+91-891) 2577502, 2577356 (C&MD's Office) / 2577667 (C&SH)  
 Grans : Shipyards, Visakhapatnam. E-mail: hsl@hslvizag.com Web: www.hsl.com



# VISAKHA

**INSTITUTE OF ENGINEERING & TECHNOLOGY**  
APPROVED BY AICTE, NEW DELHI  
(Affiliated to JNTUK, Kakinada)  
57<sup>th</sup> Division, GVMC, Narava, Visakhapatnam  
DIPLOMA | ENGINEERING DIPLOMA | ENGINEERING



**COLLEGE CODE**  
**VSPT**

## LIST OF STUDENTS UNDERTAKING PROJECT WORK ( M-TECH )

A.Y: 2021 - 2022

S.NO	HALL TICKET	BRANCH	NAME OF THE STUDENT	PROJECT TITLE
1	186G1D8793	STRUCTURAL ENGINEERING	K.SRIKANTH	INVESTIGATING STRENGTH CHARACTERISTICS OF M30 GRADE CONCRETE WITH PARTIAL REPLACEMENT OF FINE AGGREGATE WITH CRUMB RUBBER AND PLASTIC
2	186G1D8712	STRUCTURAL ENGINEERING	G.SWAROOP KUMAR	EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES USING COCONUT SHELL AND COPPER SLAG AS A PARTIAL REPLACEMENT IN CONCRETE
3	186G1D8717	STRUCTURAL ENGINEERING	M.RAMESH	DURABILITY STUDY ON SUGAR CANE BAGASSE ASH AND RECYCLE COARSE AGGREGATE AS A PARTIAL REPLACEMENT ON CONCRETE
4	166G1D8714	STRUCTURAL ENGINEERING	K.KIRAN SATYANARAYAN	DESIGN AND SEISMIC ANALYSIS OF TALL CHIMNEY STRUCTURE

5	176G1D8701	STRCUTURAL ENGINEERING	A. NAVEEN KUMAR	COMPARATIVE ANALYSIS AND DESIGNING OF FLAT SLAB AND GRID SLAB SYSTEM WITH CONVENTIONAL SLAB BY ETABS
6	176G1D8707	STRCUTURAL ENGINEERING	B.ANITHA RANI	COMPRESSIVE STRNGTH OF FLY ASH BASED GEO POLYMER CONCRETE ADDITION WITH FIBRES
7	176G1D8728	STRCUTURAL ENGINEERING	V.VENKAT DURGA	STUDY ON PREVIOUS CONCRETE BY PARTIAL REPLACEMENT OF SILICA FUME AND GGBS WITH CEMENT AND ADDITION OF GLASS FIBRES
8	176G1D8730	STRCUTURAL ENGINEERING	Y.MADHURI	SEISMIC ANALYSIS AND DESIGNING OF MULTI STORY BUILDING WITH FLOATING COLOUMNS AND NORMAL COLOUMNS BY STAAD PRO SOFTWARE
9	20NT1D8732	STRCUTURAL ENGINEERING	P.RAJKUMAR	PARTIAL REPLACEMENT OF CEMENT WITH CEREMIC POWDER AND FLY ASH IN CONCRETE
10	20NT1D8717	STRCUTURAL ENGINEERING	K.JAGAN	INVESTIGATING STRENGTH CHARACTERISTICS OF M20 AND M30 GRADE CONCRETE WITH PARTIAL REPLACEMENT OF CEMENT WITH HYPO SLUDGE

11	20NT1D8706	STRCUTURAL ENGINEERING	D.PRIYA PAUL	STUDY THE BEHAVIOUR OF HIGH VOLUME FLY ASH AS PARTIAL REPLACEMENT OF CEMENT
12	20NT1D8701	STRCUTURAL ENGINEERING	B.KALYAN CHAKRAVARTHI	STUDY ON USE OF DIFFERENT BRACINGS IN RC BUILDINGS AND FUNCTIONING OF A CHEVRON BRACING USING E TABS SOFTWARE
13	20NT1D0409	CAD/CAM	S.SAI PAVAN	TRANSIENT ANALYSIS OF RADIAL ENGINE
14	20NT1D8421	CAD/CAM	D.DIVYA BHARATHI	MECHANICAL PROPERTIES OF CHOPED STANDARD MAT E-GLASS FIBRE WITH POLYSTER RESIGN AND HUSK POWDERS
15	176G1D0412	CAD/CAM	S.TEJASWI	STUDY ON IMPROVEMENT IN TRIBOLOGICIL AND MORPHOLOGICAL OF FCNTS WITH POLYMER COMPOSITES
16	20NT1D6802	VLSI&ES	K.SANDHYA	OPTIMAL DESIGN AND PERFORMANCE ANALYSIS OF GAAS/INGAS NANOWIRE JUNCTIONLESS MOSFET
17	176G1D2110	THERMAL ENGINEERING	S.GANGADHAR	NUMERICAL INVESTIGATION OF HEAT TRANSFER ENHANCEMENT ON HYBRID FLUIDS



18	176G1D2104	THERMAL ENGINEERING	K.MAHESWARI	MODELLING RADIATION AND NATURAL CONVECTION HEAT TRANSFER IN A SQUARE ENCLOSURE USING SURFACE TO SURFACE RADIATION APPROACH
19	186G1D2102	THERMAL ENGINEERING	CH.HARISH CHAITANYA	DESIGN AND DEVELOPMENT OF CATALYTIC CONVERTER FOR REDUCTION OF POLLUTION BY USING TRANSIENT AND CFD ANALYSIS
20	20NT1D2104	THERMAL ENGINEERING	G.SUDHEER KIRAN	CFD ANALYSIS OF REWETTING OF NUCLEAR FUEL ROD BUNDLE DURING LOSS OF COOLENT ACCIDENT SCENARIO
21	176G1D2114	THERMAL ENGINEERING	V.RAJENDAR	HEAT TRANSFER ANALYSIS OF ALUMINIUM SECTION OF A FIN AND TUBE HEAT EXCHANGER

  
HOD

  
PRINCIPAL

# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTU KAKINADA and Approved by AICTE (NEWDELHI))

57<sup>th</sup> Division, Narava, Visakhapatnam-530027.



## CERTIFICATE

This is to certify that the project report entitled **MECHANICAL PROPERTIES OF CHOPPED STANDARD MAT E-GLASS FIBER, WITH POLYESTER RESIN AND HUSK POWDERS** is being submitted by **D.DIVYA BHARATHI** in partial fulfilment for the award of M.Tech in **CAD/CAM (MECHANICAL ENGINEERING)** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried by her under my guidance.

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

**PROJECT GUIDE**

Mr.A.NARENDRA KUMAR, M.Tech  
Assistant Professor

**HEAD OF THE DEPARTMENT**

Mrs.G.SIVA KARUNA, M.Tech (Ph.D)  
Associate Professor

**EXTERNAL EXAMINER**



## CERTIFICATE

This is to certify that the project entitled “**INVESTIGATING STRENGTH CHARACTERISTICS OF M30 GRADE CONCRETE WITH PARTIAL REPLACEMENT OF FINE AGGREGATE WITH CRUMB RUBBER AND PLASTIC FINES**” submitted by **KADA SRIKANTH (186G1D8713)** in partial fulfilment of the requirement for the award of the degree of **MASTER OF TECHNOLOGY** in **STRUCTURAL ENGINEERING** from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

**PROJECT GUIDE**

**CH. SAI KIRAN, M.Tech.**

**(Assistant Professor)**

**H.O.D**

**Prof V BHARGAVI, M.Tech.**

**(Associate Professor)**

**EXTERNAL EXAMINER**

## CERTIFICATE

This is to certify that the Project entitled “**OPTIMAL DESIGN AND PERFORMANCE ANALYSIS OF GaAs/InGaAs NANOWIRE JUNCTIONLESS MOSFET**” that is being submitted by **Kalla Sandhya (Regd No: 20NT1D6802)**, in partial fulfillment for the award of **M.Tech** degree in **Electronics and Communication Engineering** with specialization **VLSI and Embedded Systems** during **2020-2022**, in **Visakha Institute of Engineering and Technology**, affiliated to **JNTUK University**, is a record of bonafide work carried out by her under my guidance and supervision. The results embodied in this work have not been submitted to any other University or Institute for the award of any degree or diploma.

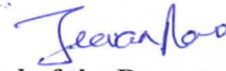


**Project Guide**

**Mr. Bighneswar Panda** M.Tech (Ph.D)

**Associate Professor**

**Dept.of ECE**



**Head of the Department**

**Mr. B Jeevan Rao**, M.Tech (Ph.D)

**Associate Professor**

**Dept.of ECE**



**External Examiner**

**VISAKHA TECHNICAL CAMPUS**

**(Affiliated to JNTU KAKINADA and Approved by AICTE, (NEWDELHI))**

**57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.**



**CERTIFICATE**

This is to certify that this project report is entitled **NUMERICAL INVESTIGATION OF HEAT TRASFER ENHANCEMENT ON HYBRID FLUIDS** was carried out by **SANAPALA GANGADHAR (176G1D2110)** in partial fulfilment of the requirements for the award of the Degree of **MASTER OF TECHNOLOGY IN THERMAL ENGINEERING** in **VISAKHA TECHNICAL CAMPUS** affiliated to Jawaharlal Nehru Technological University, Kakinada. This project was done during the Academic year 2017- 2019.

**PROJECT GUIDE,  
Mr. K. RAVINDRA M.E**

**Assistant Professor**

**HEAD OF THE DEPARTMENT,  
Mr. K. RAVINDRA M.E**

**EXTERNAL EXAMINER**

## VISAKHA TECHNICAL CAMPUS

(Affiliated to JNTU KAKINADA and Approved by AICTE, (NEWDELHI)) 57th  
Division, Narava, Visakhapatnam - 530027.



### CERTIFICATE

This is to certify that this project report is entitled **MODELING RADIATION AND NATURAL CONVECTION HEAT TRANSFER IN A SQUARE ENCLOSURE USING SURFACE TO SURFACE RADIATION APPROACH** was carried out by **KARRI MAHESWARI (176G1D2104)** in partial fulfillment of the requirements for the award of the Degree of **MASTER OF TECHNOLOGY IN THERMAL ENGINEERING** in **VISAKHA TECHNICAL CAMPUS** affiliated to Jawaharlal Nehru Technological University, Kakinada. This project was done during the Academic year 2017- 2020.

**PROJECT GUIDE,**

**Mr. G. Sunil , M.Tech**

**Asst Professor**

**HEAD OF THE DEPARTMENT,**

**Mr. K. RAVINDRA(M.E)**

**EXTERNAL EXAMINER**

**VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY**

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada, Accredited to NAAC)

**57th DIVISION, GVMC, NARAVA, VISAKHAPATNAM – 530027**



**CERTIFICATE**


This is to certify that the project report entitled '**TRANSIENT ANALYSIS OF RADIAL ENGINE**' is being submitted by

**SOORA SAI PAVAN**

**20NT1D0409**

In partial fulfillment for the award of the Degree of Master of Technology in CAD/CAM submitted to the Jawaharlal Nehru Technological University, Kakinada is a record of bonified work carried out under my guidance and supervision.

The result embodied in this project report has not been submitted to any other University or Institute for the award of any degree.

  
G. SUNIL  
Project guide



External Examiner

  
Mrs. G. SIVA KARUNA  
Head of the Department

## VISAKHA TECHNICAL CAMPUS

(Affiliated to JNTU KAKINADA and Approved by AICTE, (NEWDELHI))

57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.



### CERTIFICATE

This is to certify that this project report is entitled **DESIGN AND DEVELOPMENT OF CATALYTIC CONVERTER FOR REDUCTION OF POLLUTION BY USING TRANSIENT AND CFD ANALYSIS** was carried out by **CH HARISH CHAITANYA (186G1D2102)** in partial fulfillment of the requirements for the award of the Degree of **MASTER OF TECHNOLOGY IN THERMALENGINEERING** in **VISAKHA TECHNICAL CAMPUS** affiliated to Jawaharlal Nehru Technological University, Kakinada. This project was done during the Academic year 2018-2020.

PROJECTGUIDE,

Dr. V. SRIDHARPATNAIK, Ph.D

HEAD OF THEDEPARTMENT,

Mr. K. RAVINDRA (M.E)

EXTERNAL EXAMINER



# VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTU KAKINADA and Approved by AICTE,  
(NEWDELHI))57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.



## CERTIFICATE

This is to certify that this project report is entitled “**CFD Analysis on Rewetting of Nuclear Fuel Rod Bundle During Loss-of-coolant Accident (LOCA) scenario**” was carried out by **GRACE SUDHEER KIRAN CH (20NT1D2104)** in partial fulfilment of the requirements for the award of the Degree of **MASTER OF TECHNOLOGY IN THERMAL ENGINEERING** in **VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY** affiliated to Jawaharlal Nehru Technological University, Kakinada. This project was done during the Academic year 2020-2022.

PROJECT GUIDE,

Mr. K. RAVINDRA, M. E

HEAD OF THE DEPARTMENT,

Mrs. G. Siva Karuna, MTECH (PhD)

EXTERNAL EXAMINER

**VISAKHA TECHNICAL CAMPUS**

**(Affiliated to JNTU KAKINADA and Approved by AICTE, (NEW DELHI))**

**57<sup>th</sup> Division, Narava, Visakhapatnam 530027.**



**CERTIFICATE**

This is to certify that this project report is entitled “**HEAT TRANSFER ANALYSIS OF ALUMINUM SECTION OF A FIN & TUBE HEAT EXCHANGER**” was carried out by VADDADI RAJENDAR (176G1D2114) in partial fulfillment of the requirements for the award of the Degree of **MASTER OF TECHNOLOGY** in **Thermal Engineering** of Jawaharlal Nehru Technological University, Kakinada. This project was done during the Academic year 2017-2019.

*A. Murali Krishna*

**PROJECT GUIDE**

**A. MURALI KRISHNA M.Tech,**

*Mr. K. Ravindra M.E*

**HEAD OF THE DEPARTMENT**

**Mr. K. RAVINDRA M.E**

**EXTERNAL EXAMINER**



## CERTIFICATE

This is to certify that the project entitled “**EXPERIMENTAL INVESTIGATION ON MECHANICAL PROPERTIES USING COCONUT SHELL AND COPPER SLAG AS A PARTIAL REPLACEMENT IN CONCRETE**” submitted by **GURUGUBELLI SWARUPKUMAR (186G1D8712)** in partial fulfillment of the requirement for the award of the degree of **MASTER OF TECHNOLOGY** in **STRUCTURAL ENGINEERING** from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

**PROJECT GUIDE**  
**P SAILU** M.Tech.  
(Assistant Professor)

**H.O.D**  
**Prof V BHARGAVI** M.Tech.  
(Associate Professor)

**EXTERNAL EXAMINER**



## CERTIFICATE

This is to certify that the project entitled **“DURABILITY STUDY ON SUGARCANE BAGASSE ASH AND RECYCLED COARSE AGGREGATE AS A PARTIAL REPLACEMENT IN CONCRETE”** submitted by **MADABATTULA RAMESH BABU (186G1D8717)** in partial fulfillment of the requirement for the award of the degree of **MASTER OF TECHNOLOGY in STRUCTURAL ENGINEERING** from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

*Y. Priyanka*

**PROJECT GUIDE**

**Y.PRIYANKA M.Tech.**

**(Assistant Professor)**

*Bhargava*

**H.O.D**

**Prof V BHARGAVI M.Tech.**

**(Associate Professor)**

*P.V.V. Satyan*

**EXTERNAL EXAMINER**



## CERTIFICATE

This is to certify that the project entitled “**DESIGN AND SEISMIC ANALYSIS OF TALL CHIMNEY STRUCTURE**” submitted by **KONATHALA KIRAN SATYANARAYANA (166G1D8714)** in partial fulfilment of the requirement for the award of the degree of **MASTER OF TECHNOLOGY** in **STRUCTURAL ENGINEERING** from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

**PROJECT GUIDE**

**Prof S NAVEEN KUMAR**M.Tech.

(Asst.Professor)

**H.O.D**

**Prof V BHARGAVI**M.Tech.

(Asst.Professor)

**EXTERNAL EXAMINER**

## VISAKHA TECHNICAL CAMPUS

(Affiliated to JNTUK & Approved by AICTE, New Delhi)

57<sup>th</sup> Division, Narava, Visakhapatnam.



### CERTIFICATE

This is to certify that the project entitled “**COMPARATIVE ANALYSIS AND DESIGNING OF FLAT SLAB AND GRID SLAB SYSTEM WITH CONVENTIONAL SLAB BY ETABS**” submitted by **A NAVEEN KUMAR (176G1D8701)** in partial fulfillment of the requirement for the award of the degree of **MASTER OF TECHNOLOGY** in **STRUCTURAL ENGINEERING** from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

*T. Sirisha*  
**PROJECT GUIDE**

**Sri. T SIRISHA** M. Tech.

**(Assistant Professor)**

*Bhargavi*  
**H.O.D**

**Mrs. V BHARGAVI** M. Tech (Ph.D.).

**(Associate Professor)**

*Aditya*  
**EXTERNAL EXAMINER**

# VISAKHA TECHNICAL CAMPUS

(Affiliated to JNTUK & Approved by AICTE, New Delhi)

57<sup>th</sup> Division, Narava, Visakhapatnam



## PROJECT EVALUATION REPORT

This project entitled “**COMPARATIVE ANALYSIS AND DESIGNING OF FLAT SLAB AND GRID SLAB SYSTEM WITH CONVENTIONAL SLAB BY ETABS**” submitted by **A NAVEEN KUMAR (176G1D8701)** of 2017-2019 batch. in partial fulfilment of the requirement for the award of the degree of **Master of Technology in Structural Engineering** from **Jawaharlal Nehru Technological University, Kakinada** has been approved.

Examiners:

➤ T. Sirisha  
(Sri T SIRISHA)

Project Guide

➤ Bhargavi  
(Mrs. V BHARGAVI)

H.O.D

➤ P.v.v. Sathy.

External Examiner



## CERTIFICATE

This is to certify that the project entitled "**COMPRESSIVE STRENGTH OF FLY ASH BASED GEOPOLYMER CONCRETE ADDITION WITH FIBERS**" submitted by **BODDETI ANITHA RANI(176G1D8707)** in partial fulfilment of the requirement for the award of the degree of **MASTER OF TECHNOLOGY** in **STRUCTURAL ENGINEERING** from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

**PROJECT GUIDE**

**Prof V BHARGAVI** M.Tech.

**(Associate Professor)**

**H.O.D**

**Prof V BHARGAVI** M.Tech.

**(Associate Professor)**

**EXTERNAL EXAMINER**





## CERTIFICATE

This is to certify that the project entitled “**STUDY ON PERVIOUS CONCRETE BY PARTIAL REPLACEMENT OF SILICA FUME AND GGBS WITH CEMENT AND ADDITION OF GLASS FIBERS**” submitted by **V VENKATA DURGA RAJU(176G1D8728)** in partial fulfilment of the requirement for the award of the degree of **MASTER OF TECHNOLOGY in STRUCTURAL ENGINEERING** from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

*Y. Priyanka*  
**PROJECT GUIDE**  
**Y PRIYANKA M.Tech.**  
**(Assistant Professor)**

*Bhargava*  
**H.O.D**  
**V BHARGAVI M.E.(Ph.D)**  
**(Associate Professor)**

*Aditya*  
**EXTERNAL EXAMINER**



## CERTIFICATE

This is to certify that the project entitled “**SEISMIC ANALYSIS AND DESIGNING OF MULTI STORY BUILDING WITH FLOATING COLUMNS AND NORMAL COLUMNS BY STAAD PRO SOFTWARE**” submitted by **YANDAPALLI MADHURI(176G1D8730)** in partial fulfilment of the requirement for the award of the degree of **MASTER OF TECHNOLOGY** in **STRUCTURAL ENGINEERING** from **Jawaharlal Nehru Technological University, Kakinada** is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

**PROJECT GUIDE**

**Prof V BHARGAVI M.Tech.**

**(Associate Professor)**

**H.O.D**

**Prof V BHARGAVI M.Tech.**

**(Associate Professor)**

**EXTERNAL EXAMINER**



## CERTIFICATE

This is to certify that the project entitled “**PARTIAL REPLACEMENT OF CEMENT WITH CERAMIC POWDER AND FLY ASH IN CONCRETE**” submitted by **PEESA RAJ KUMAR (20NT1D8732)** in partial fulfilment of the requirement for the award of the degree of **MASTER OF TECHNOLOGY** in **STRUCTURAL ENGINEERING** from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

**PROJECT GUIDE**

**Sri V BHARGAVI, (Ph.D)**  
**(Associate Professor)**

**H.O.D**

**Sri V BHARGAVI, (Ph.D)**  
**(Associate Professor)**

**EXTERNAL EXAMINER**



## CERTIFICATE

This is to certify that the project entitled “**INVESTIGATING STRENGTH CHARACTERISTICS OF M20 and M30 GRADE CONCRETE WITH PARTIAL REPLACEMENT OF CEMENT WITH HYPO SLUDGE**” submitted by **KUSUMANCHI JAGAN (20NT1D8717)** in partial fulfilment of the requirement for the award of the degree of **MASTER OF TECHNOLOGY** in **STRUCTURAL ENGINEERING** from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

**PROJECT GUIDE**

**Mr. CH. SAI KIRAN, M.Tech.**

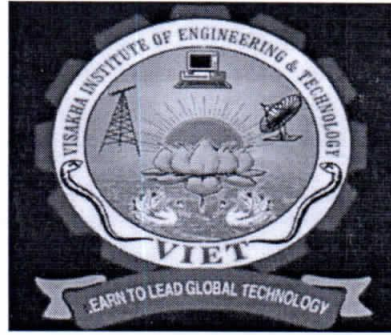
**(Assistant Professor)**

**H.O.D**

**Prof V BHARGAVI, (Ph.D)**

**(Associate Professor)**

**EXTERNAL EXAMINER**



### CERTIFICATE

This is to certify that the project entitled “**STUDY THE BEHAVIOUR OF HIGH VOLUME FLY ASH AS PARTIAL REPLACEMENT OF CEMENT**” submitted by Debapriya Paul (20NT1D8706) in partial fulfillment of the requirement for the award of the degree of MASTER OF TECHNOLOGY in STRUCTURAL ENGINEERING from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

**PROJECT GUIDE**  
**V. BHARGAVI** M.E [P.H.D.]  
(Assistant Professor)

**H.O.D**  
**Prof V. BHARGAVI** M.E [P.H.D.]  
(Associate Professor)

**EXTERNAL EXAMINER**



## CERTIFICATE

This is to certify that the project entitled “**A STUDY ON THE USE OF DIFFERENT BRACINGS IN RC BUILDINGS AND FUNCTIONING OF A-CHEVRON BRACING USING ETABS SOFTWARE**” submitted by **BANDARU KALYAN CHAKRAVARTHI (20NT1D8701)** in partial fulfilment of the requirement for the award of the degree of **MASTER OF TECHNOLOGY** in **STRUCTURAL ENGINEERING** from Jawaharlal Nehru Technological University, Kakinada is an authentic work carried out by him under my guidance. To the best of our knowledge, the matter embodied in this project review has not been submitted to any University/ Institute for the award of the degree.

**PROJECT GUIDE**

**Sri. Y. PRIYANKA, M.Tech.**

**(Assistant Professor)**

**H.O.D**

**Prof V BHARGAVI, (Ph.D)**

**(Associate Professor)**

**EXTERNAL EXAMINER**

VISAKHA TECHNICAL CAMPUS  
(Affiliated to JNTU KAKINADA and Approved by AICTE, (NEWDELHI))  
57<sup>th</sup> Division, Narava, Visakhapatnam - 530027.



**CERTIFICATE**

This is to certify that this project report is entitled "STUDY ON IMPROVEMENT IN TRIBOLOGICAL AND MORPHOLOGICAL OF F-CNTS WITH POLYMER COMPOSITES" is being submitted by Ms. SINGURU TEJASWI (176G1D0412) in partial fulfilment of the requirements for the award of the Degree of Master of Technology in CAD/CAM to Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by her under our guidance during the Academic year 2019-2020.

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

*Satya Lakshmi*  
INTERNAL GUIDE,  
Mrs. KALYAN SATYA LAKSHMI,  
M.Tech

*K Ravindra*  
HEAD OF THE DEPARTMENT,  
K RAVINDRA

*C. Redina Das*  
EXTERNAL EXAMINER