



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
Kakinada-533003, Andhra Pradesh (India)


AY : 2021 - 2022

Projects/Internship/Field visits

Program Code	Program Name	Projects		Internships		Field visits	
		No of projects	Total no. of students	No. of Internships	Total no. of students	No. of Field visits	Total no. of students
021A03	B.Tech – ME	15	58				
021D15	M.Tech – MD	10	10	58	58		
021D04	M.Tech –CAD/CAM	16	16				

  
Coordinator

  
REGISTRAR  
J.N.T. University Kakinada  
Kakinada-533003

  
HOD/Director  
HEAD  
Mechanical Engineering Department  
University College of Engineering  
J.N.T. University Kakinada  
KAKINADA



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
Kakinada-533003, Andhra Pradesh (India)

**Projects**

Program Code: 021A03

Program Name: B.Tech – ME

Year 2020-21

S.No	Student name	Roll Number	Project Title	Guide Name	Dates (Duration)	Organization Location
1	DAVULURI KRANTHI PRIYA	18021A0318	VIBRATION ANALYSIS OF STRUCTURAL MEMBERS USING EXPERIMENTAL MODAL TESTING	Dr K. MEERA SAHEB	2021-2022	JNTUK
	D BHARGAVA RAM KUMAR	18021A0315			2021-2022	JNTUK
	EDE NAGA RAVI TEJA	18021A0322			2021-2022	JNTUK
2	S KUSUMA SAI LAHARI	18021A0326	PERFORMANCE EVALUATION OF VCR DIESEL ENGINE WITH SUNFLOWER OIL BASED BIO DIESEL	Dr B. BALAKRISHNA	2021-2022	JNTUK
	MANIKYAM SAI SUDHEER	18021A0344			2021-2022	JNTUK
	CHERUKURI MAMATHA SARANYA	18021A0307			2021-2022	JNTUK
	ELIPE AJAY	18021A0331				
3	D S S MANIKANTA REDDY	18021A0303	PERFORMANCE ANALYSIS OF EARTH TUBE HEAT EXCHANGER	Dr A. GOPALA KRISHNA	2021-2022	JNTUK
	P VISHNU VARDHAN	18021A0308			2021-2022	JNTUK
	B YASHWANTH CHANDRA	19025A0346			2021-2022	JNTUK
4	SIRIKI BHAVANI SHANKAR	19025A0355	THERMAL ANALYSIS ON IC ENGINE CYLINDER HEAD	Dr A. SWARNA KUMARI	2021-2022	JNTUK
	SAI ABHIRAM PASUPULETI	18021A0301			2021-2022	JNTUK
	SHAIK ABDUL SAMAD	18021A0316			2021-2022	JNTUK
	V VENKATA SAI GANESH	18021A0327			2021-2022	JNTUK
5	POLNATI UMA BHARGAVI	18021A0329	BUCKLING ANALYSIS OF STRAIGHT HELICAL COMPRESSION SPRING –A COMPARATIVE ANALYSIS	Sri M.KUMAR SWAMY	2021-2022	JNTUK
	CHODISETTI JYOTI	19025A0353			2021-2022	JNTUK
	NASAKA YASASWINI	18021A0332			2021-2022	JNTUK
6	T SRINIVASA GOWTHAM SAGAR	18021A0310	RAPID PROTOTYPING OF HUMEUS BONE USING FUSED DEPOSITION MODELLING USING AND ANALYTICAL ANALYSIS OF HUME BONE	Dr D.LINGA RAJU	2021-2022	JNTUK
	BONI NARESH	18021A0330			2021-2022	JNTUK
	A SAI NIKHIL KUMAR	18021A0309			2021-2022	JNTUK
	RAVI SUNITH	18021A0352			2021-2022	JNTUK
7	ILLAPU KALYANI	19025A0333	ANALYSIS OF ELASTIC MEMBER OF VARYING	Dr K.KRISHNA BHASKAR	2021-2022	JNTUK
	V Y S PAVAN KUMAR REDDY	18021A0314			2021-2022	JNTUK

8	UDUGULA RAM KIRAN	18021A0328	CROSS SECTION USING ELEMENT FREE GALERKIN METHOD	Dr K.DILEEP KUMAR	2021-2022	JNTUK
	KALLA CHARAN	18021A0321			2021-2022	JNTUK
	UMMIDI NAVEEN	19025A0343			2021-2022	JNTUK
	SHAIK AYZ	18021A0323			2021-2022	JNTUK
	GANJA NAVYA MADHURI	18021A0311			2021-2022	JNTUK
9	SOWMYA CHINNAM	18021A0325	EVLUATION OF ELASTIC PROPERTIES OF CNT NUMERICAL SIMULATION	Sri V.VARA PRASAD	2021-2022	JNTUK
	T V V S S BHARGAV	19025A0347			2021-2022	JNTUK
	M SRIHARI	19025A0337			2021-2022	JNTUK
	K JAHNAVI SRI LALITHA	18021A0305			2021-2022	JNTUK
10	G ESWAR VASU NAIK	18021A0324	FABRICATION OF HYDROPHOBIC SPONGE FOR THE RECOVERY AND EXTRACTION OF SPILLED	Sri V. KALYAN MANOHAR	2021-2022	JNTUK
	RYALI VIJAY SURYA	19025A0357			2021-2022	JNTUK
	RACHAKONDA NAVYA	19025A0341			2021-2022	JNTUK
	MANGAM PRUDHVI	19025A0350			2021-2022	JNTUK
11	PALIVELA LATHA MOUNIKA	19025A0354	CFD ANALYSIS ON EFFECT OF FLOW DIVERGENT STENT PARAMETERSON THE INTRA ANEURYSMAL BLOOD FLOW	Dr K.PRASAD	2021-2022	JNTUK
	KARI GOVARDHAN	19025A0349			2021-2022	JNTUK
	SYED AZEEZ	19025A0335			2021-2022	JNTUK
	DEKKALA BALAJI	19025A0345			2021-2022	JNTUK
12	BATHULA GEETHA	17025A0345	CAVITATION ANALYSIS OF IMPELLER OF A CENTRIFUGAL PUMP CFX	Sri M.MADHU SUDHAN PAASAD	2021-2022	JNTUK
	SAMBANGI SAI KIRAN	18021A0313			2021-2022	JNTUK
	BHIMIREDDY TEJASWINI DEVI	18021A0320			2021-2022	JNTUK
	VIPPARTHI DURGA SHIVARAM	18021A0302			2021-2022	JNTUK
13	BATHULA SUMANTH RATNAKAR	18021A0351	THERMO MECHANICAL ANALYSIS OF BRAKE DISC USING ANSYS	Smt B.LAKSHMI MANASA	2021-2022	JNTUK
	BOYINA ANITHA	18021A0319			2021-2022	JNTUK
	GALI ADITHYA	18021A0304			2021-2022	JNTUK
	KORADA NIKHITHA	19025A0340			2021-2022	JNTUK
14	DHANASANI PAVAN KUMAR	19025A0356	DESIGN AND ANA:YSIS OF PRESSURE VESSEL USING ANSYS	Dr V.JAYA PRASAD	2021-2022	JNTUK
	NAKKA AKHILA RANI	18021A0317			2021-2022	JNTUK
	S V M KUMARA SWAMY	19025A0334			2021-2022	JNTUK
	P SAI POOJITHA	18021A0326			2021-2022	JNTUK
15	R VENKATA SAI KUMAR	19025A0348	OPTIMIZATION OF PROCESS PARAMETERS OF SELECTIVE LASER MELTED ALLOYS	Dr LAKSHMAN KISHORE.T	2021-2022	JNTUK
	KANUGULA SAI KIRAN	19025A0339			2021-2022	JNTUK
	BEZAWADA DEEPIKA	19025A0336			2021-2022	JNTUK
	GORAKALA LAVANYA	19025A0342			2021-2022	JNTUK
	BAMMIDI VINOD KUMAR	18021A0312			2021-2022	JNTUK
			HEAT TRANSFER AND FLUID FLOW ANALYSIS IN THE NOZZLE USING SUPER CRITICAL CARBON DIOXIDE		2021-2022	JNTUK



**DEPARTMENT OF MECHANICAL ENGINEERING**

**UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (AUTONOMOUS)**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**



492  
493  
494

**CERTIFICATE**

This is to certify that the thesis entitled "Vibration analysis of Structural members using Experimental Modal Testing" submitted by **Ms. Davuluri Kranthi Priya(18021A0318), Mr. Damarasingi Bhargava Ram Kumar(18021A0315) and Mr. Ede Naga Ravi Teja(18021A0322)** of final year B-Tech (Mechanical Engineering) in partial fulfilment of the requirement for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** by **University College of Engineering Kakinada, JNTUK.**

This report is an authentic work carried out by them under my supervision and guidance.

To the best of my knowledge, the matter embodied in the thesis has not been submitted to any other University/Institute for the award of any Degree or Diploma.

**Project Guide**

Dr. K. Meera Saheb

Professor & Head

Dept. of Mechanical Engineering

UCEK, JNTU KAKINADA

**Head of the Department**

Dr. K. Meera Saheb

Professor & Head

Dept. of Mechanical Engineering

UCEK, JNTU KAKINADA

REGISTRAR

J.N.T. University Kakinada  
Kakinada-533003

DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

495  
496  
497  
498



CERTIFICATE

This is to certify that the project entitled "PERFORMANCE EVALUATION OF VCR DIESEL ENGINE WITH SUNFLOWER OIL BASED BIODIESEL BLEND" being submitted by SINGANAMILLI KUSUMA SAI LAHARI (18021A0326), MANIKYAM SAI SUDHEER (19025A0344), CHERUKURI MAMATHA SARANYA (18021A0307), ELIPE AJAY (18021A0331) in fulfillment of the requirement for the award of the degree of **Bachelor of Technology in Mechanical Engineering** to the University College of Engineering Kakinada(A), JNTUK is a record of Bonafide work done by them under my guidance during the academic year 2021-2022.

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

  
PROJECT GUIDE

Prof B. Balakrishna

Professor

  
HEAD OF THE DEPARTMENT

Prof K. Meera Saheb

Professor & HOD

  
REGISTRAR

J.N.T. University Kakinada  
Kakinada-533003


DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



499  
900  
501

**CERTIFICATE**

This is to certify that **D. S. S. MANIKANTA REDDY (18021A0303)**, **P. VISHNU VARDHAN (18021A0308)**, **B. YASWANTH CHANDRA (19025A0346)** students of IV B.Tech. Mechanical Engineering, have successfully carried out their project on "PERFORMANCE ANALYSIS OF EARTH TUBE HEAT EXCHANGERS" under the guidance of **Dr. A. GOPALA KRISHNA**, Professor, in partial fulfilment of the requirements for the award of Degree in Bachelor of Technology in Mechanical Engineering from University College of Engineering, JNTU Kakinada, during the academic year 2021-2022.

Project Guide   
Dr. A. GOPALA KRISHNA  
Professor  
Dept. Of Mechanical Engineering  
UCEK, JNTU KAKINADA

  
Head of the Department  
Dr. K. MEERA SAHEB  
Professor & Head  
Dept. Of Mechanical Engineering  
UCEK, JNTU KAKINADA

  
REGISTRAR  
J.N.T. University Kakinada  
Kakinada-533003



DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA



502  
503  
504  
505

**CERTIFICATE**

This is to certify that the main project entitled "THERMAL ANALYSIS OF IC ENGINE CYLINDER HEAD" being submitted by SIRIKI BHAVANI SHANKAR (19025A0355), SAI RAM PASUPULETI (18021A0301), SHAIK ABDUL SAMAD (18021A0316), ANTHALA VENKATA SAI GANESH (18021A0327) in partial fulfilment of the requirement for the award of the degree of **Bachelor of Technology in Mechanical Engineering** is a record of **Bonafide** work done by them under our supervision during the academic year 2021-2022.

PROJECT GUIDE

**Dr. A. SWARNA KUMARI**

Professor

Department of Mechanical  
Engineering

UCEK (A), JNTUK KAKINADA

HEAD  
Mechanical Engineering Department  
University College of Engineering  
J.N.T. University Kakinada  
KAKINADA

HEAD OF THE DEPARTMENT

**Dr. K. MEERA SAHEB**

Professor and HOD

Department of Mechanical  
Engineering

UCEK (A) JNTUK, KAKINADA

REGISTRAR

J.N.T. University Kakinada  
Kakinada-533003

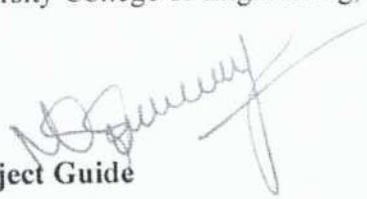
DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)  
JAWAHARLALNEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



506  
507  
508

CERTIFICATE

This is to certify that POLNATI UMA BHARGAVI (18021A0327), CHODISE JYOTI (19025A0353) and NASAKA YASASWINI (18021A0332) students of IV B.Tech. Mechanical Engineering, have successfully carried out their project on "BUCKLING ANALYSIS OF STRAIGHT HELICAL COMPRESSION SPRINGS - A COMPARITIVE ANALYSIS" under the guidance of SRI. M. KUMARA SWAMY, Associate Professor, in partial fulfillment of the requirements for the award of Degree in Bachelor of Technology in Mechanical Engineering from University College of Engineering, JNTU Kakinada, during the academic year 2021-2022.

  
Project Guide

Sri. M. KUMARA SWAMY

Associate Professor,

Dept. of Mechanical Engineering,

UCEK, JNTU KAKINADA.

  
Head of the Department

Dr. K. MEERA SAHEB

Professor & Head of the Department.

Dept. of Mechanical Engineering,

UCEK, JNTU KAKINADA.



DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (AUTONOMOUS)  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

509  
510  
511  
512



CERTIFICATE

This is to certify that the thesis entitled "Rapid Prototyping Of Humerus Bone Using Fusion Deposition Modeling And Analytical Analysis Of Humerus Bone" submitted by Tummeda Srinivasa Gowtham Sagar (18021A0310), Boni Naresh (18021A0329), Addapuseela Sai Nikhil Kumar (18021A0309), Ravi Sunith (18021A0352) of final year B-Tech (Mechanical Engineering) in partial fulfillment of the requirement for the award of degree of BACHELOR OF TECHNOLOGY by University College of Engineering Kakinada, JNTUK. This report is an authentic work carried out by them under my supervision and guidance.

To the best of my knowledge, the matter embodied in the thesis has not been submitted to any other university/institute for the award of any Degree or Diploma.

**PROJECT GUIDE**  
**Dr. D. LINGA RAJU**  
Assistant Professor  
Mechanical Engineering Department  
UCEK, JNTUK

**HEAD OF THE DEPARTMENT**  
**Dr. K. MEERA SAHEB**  
Professor  
Mechanical Engineering Department  
UCEK, JNTUK

**REGISTRAR**  
J.N.T. University Kakinada  
Kakinada-533007

DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA  
(Autonomous)  
KAKINADA, ANDHRA PRADESH-533003

S13  
S14  
S15  
S16



**CERTIFICATE**

This is to certify that the report entitled “ANALYSIS OF ELASTIC BAR OF VARYING CROSS-SECTION USING ELEMENT FREE GALERKIN METHOD”, being submitted by I. KALYANI (19025A0333), V.Y.S. PAVAN KUMAR REDDY (18021A0314), U. RAM KIRAN (18021A0328), K.CHARAN (18021A0321), in partial fulfilment for the award of the degree of Bachelor of Technology in MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by them under my guidance and supervision during academic year 2021-2022.

*K. Bhaskar*

**PROJECT GUIDE**

**Dr. K. KRISHNA BHASKAR**

Assistant Professor

Mechanical Engineering Department

UCEK, JNTUK

*K. Meera Saheb*

**HEAD OF THE DEPARTMENT**

**Dr. K. MEERA SAHEB**

Professor

Mechanical Engineering Department

UCEK, JNTUK

*Sudhakar*  
REGISTRAR

**J.N.T. University Kakinada**  
**Kakinada-533003**

DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (AUTONOMOUS)  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



S17  
S18  
S19  
S20

CERTIFICATE

This is to certify that the thesis entitled "Evaluation of Elastic Properties of CNT by Numerical Simulation" submitted by Ummidi Naveen (19025A0343), Shaik Ayaz (18021A0323), Ganja Navya Madhuri (18021A0311), Sowmya Chinnam (18021A0325) of final year B-Tech (Mechanical Engineering) in partial fulfillment of the requirement for the award of degree of BACHELOR OF TECHNOLOGY by University College of Engineering Kakinada, JNTUK. This report is an authentic work carried out by them under my supervision and guidance.

To the best of my knowledge, the matter embodied in the thesis has not been submitted to any other University/Institute for the award of any Degree or Diploma.

Project Guide

Dr K Dileep Kumar

Assistant Professor,

Dept. of Mechanical Engineering,

University College of Engineering,

JNTUK, Kakinada.

Head of the Department

Dr K Meera Saheb

Professor & Head of the Department,

Dept. of Mechanical Engineering,

University College of Engineering,

JNTUK, Kakinada.

  
REGISTRAR  
J.N.T. University Kakinada  
Kakinada-533003



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)




S21  
S22  
S23  
S24

CERTIFICATE

This is to certify that the project entitled "Fabrication of hydrophobic sponge for the recovery and extraction of spilled oil" that is being submitted by T. V. V. S. S. Bhargava (19025A0347), Mahesh Srihari (19025A0337), K. Jahnvi Sri Lalitha (18021A0305), G. Eswar Vasu Naik (18021A0324) in partial fulfillment of requirements for the award of the degree of the Bachelor of Technology in Mechanical Engineering to the University College of Engineering Kakinada, Jawaharlal Nehru Technological university Kakinada is a record of bonafide work carried out by them under my guidance and supervision.

 21/5/22

**Project Guide**  
Sri. V. Vara Prasad,  
Assistant Professor,  
Dept. of Mechanical Engineering  
UCEK (A), JNTU KAKINADA

  
Mechanical Engineering Department  
University College of Engineering  
J.N.T. University Kakinada  
KAKINADA

**Head of the Department**  
Dr. K. Meera Saheb,  
Professor and HOD,  
Dept. of Mechanical Engineering  
UCEK (A), JNTU KAKINADA

  
**REGISTRAR**  
J.N.T. University Kakinada  
Kakinada-533003

DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA





565  
566  
567  
568

**CERTIFICATE**

This is to certify that the project entitled "CFD ANALYSIS ON EFFECT OF FLOW DIVERTER STENT PARAMETERS ON THE INTRA-ANEURYSMAL BLOOD FLOW" that is being submitted by RYALI VIJAY SURYA (19025A0357), RACHAKONDA NAVYA (19025A0341), MANGAM PRUDHVI (19025A0350), PAIIVELA LATHA MOUNIKA (19025A0354) in partial fulfilment of the requirements for the award of the degree of the Bachelor of Technology in Mechanical Engineering to the University College of Engineering Kakinada, JNTUK is a record of bonafide work carried out by them under my guidance and supervision.

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

  
**Project Guide**  
Sri. V. Kalyana Manohar  
Assistant Professor  
Department of Mechanical Engg.  
UCEK, JNTUK

  
**Head of the Department**  
Dr. K. Meera Saheb  
Professor and HOD  
Department of Mechanical Engg.  
UCEK, JNTUK

  
**REGISTRAR**  
J.N.T. University Kakinada  
Kakinada-529002

DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



529  
530  
531  
532

**CERTIFICATE**

This is to certify that the main project entitled "CAVITATION ANALYSIS OF IMPELLER OF A CENTRIFUGAL PUMP USING CFX" is being submitted by KARI GOVARDHAN (19025A0349), SYED AZEEZ (19025A0335), DEKKALA BALAJI (19025A0345), BATHULA GEETHA (17025A0345) in fulfillment of the requirement for the award of the degree of **Bachelor of Technology in Mechanical Engineering** is a record of Bonafide work done by them under our supervision during the academic year 2021-2022.

**PROJECT GUIDE**

**Dr. K. Prasad**

Assistant Professor

Department of Mechanical Engg.

UCEK (A), JNTUK

**HEAD OF THE DEPARTMENT**

**Dr. K. Meera Saheb**

Professor & HOD

Department of Mechanical Engg.

UCEK (A), JNTUK

**REGISTRAR**

**J.N.T. University Kakinada  
Kakinada-533002**



DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)  
JAWAHARLALNEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



533  
534  
535  
536

**CERTIFICATE**

This is to certify that VAMISSETTI ANUSHA (18021A0313), PASAGADA RANJITH KUMAR (18021A0320), DASARI DIVYA JYOTHI (18021A0302) and BATHULA SUMANTH RATNAKAR (18021A0351) students of IV B.Tech. Mechanical Engineering, have successfully carried out their project on "THERMO MECHANICAL ANALYSIS OF BRAKE DISC USING ANSYS" under the guidance of Sri. M. MADHUSUDHAN PRASAD, Assistant Professor, in partial fulfillment of the requirements for the award of Degree in Bachelor of Technology in Mechanical Engineering from University College of Engineering, JNTU Kakinada, during the academic year 2021-2022.

Project Guide

Sri. M. MADHUSUDHAN PRASAD

Assistant Professor

Dept. of Mechanical Engineering

UCEK, JNTU KAKINADA

Head of the Department

Dr. K. MEERA SAHEB

Professor & Head

Dept. of Mechanical Engineering

UCEK, JNTU KAKINADA

REGISTRAR  
J.N.T. University Kakinada  
Kakinada-533002

DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



537  
538  
539  
540

CERTIFICATE

This is to certify that **BOYINA ANITHA (18021A0319)**, **GALI ADITHYA (18021A0304)**, **KORADA NIKHITHA (19025A0340)** and **DHANASANI PAVAN KUMAR (19025A0356)** students of IV B.Tech. Mechanical Engineering, have successfully carried out their project on "DESIGN AND ANALYSIS OF PRESSURE VESSEL USING ANSYS" under the guidance of **Smt. B. LAKSHMI MANASA**, Assistant Professor, in partial fulfillment of the requirements for the award of Degree in Bachelor of Technology in Mechanical Engineering from University College of Engineering, JNTU Kakinada, during the academic year 2021-2022.

Project Guide

*B. Lakshmi Manasa*  
Smt. B. LAKSHMI MANASA

Assistant Professor

Dept. of Mechanical Engineering

UCEK, JNTU Kakinada

Head of the Department

*[Signature]*  
Dr. K. MEERA SAHEB

Professor & Head

Dept. of Mechanical Engineering

UCEK, JNTU Kakinada

*[Signature]*  
REGISTRAR  
J.N.T. University Kakinada  
Kakinada-533004

DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA(A)  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



541  
542  
543  
544

**CERTIFICATE**

This is to certify that the project entitled "OPTIMISATION OF PROCESS PARAMETERS OF SELECTIVE LASER MELTED TITANIUM ALLOY" being submitted by NAKKA AKHILA RANI(18021A0317), SUNKARA VEERA MANIKANTA KUMAR SWAMY(19025A0334), PINNAMARAJU SAI POOJITHA(18021A0306), REKADI VENKATA SAI KUMAR(19025A0348) in partial fulfillment of the requirement for the award of the degree of Bachelor Of Technology In Mechanical Engineering to the University college Engineering Kakinada (Autonomous), JNTUK Kakinada is a record of Bonafide work done by them under my guidance and supervision.

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

*V. Jaya Prasad*  
30/5/2022

**Project Guide**

Dr. V. JAYA PRASAD

ASSISTANT PROFESSOR

Mechanical Engineering Department  
University College of Engineering (A), Kakinada  
J.N.T. University Kakinada, Kakinada

*K. Meera Saheb*

**Head of the Department**

Dr. K. MEERA SAHEB

PROFESSOR & HOD

*Sundeth*  
REGISTRAR  
J.N.T. University Kakinada



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

DEPARTMENT OF MECHANICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)



545  
546  
547  
548

**CERTIFICATE**

This is to certify that the project entitled "Heat transfer and fluid flow analysis in the nozzle using super critical carbon dioxide" that is being submitted by

Kanugula Sai Kiran	(19025A0339)
Bezawada Deepika	(19025A0336)
Gorakala Lavanya	(19025A0342)
Bammidi Vinodh Kumar	(18021A0312)

in partial fulfilment of the requirements for the award of the degree of the **Bachelor of Technology in Mechanical Engineering** to the **University College of Engineering Kakinada, Jawaharlal Nehru Technological University Kakinada** is a record of **bonafide** work carried out by them under my guidance and supervision.

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

*Lakshmana Kishore*  
**Project Guide**

**Dr. Lakshmana Kishore,**  
Assistant Professor,  
Mech Dept., UCEK,  
JNT University, Kakinada,  
Kakinada-533003, A.P.

*[Signature]*

**Head of The Department**

**Dr. K. Meera Saheb,**  
Professor and HOD,  
Mech Dept., UCEK,  
JNT University, Kakinada,  
Kakinada-533003, A.P.

*[Signature]*  
**REGISTRAR**  
**J.N.T. University Kakinada**  
**Kakinada-533003**