(Approved by AICTE, New Delhi, and Accredited by NAAC and affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada) Surampalem-533437, Peddapuram, E.G.Dt., AP

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the thesis/dissertation entitled "Synthesis of 8 bar 1 degree of freedom walking mechanism" is being submitted by Mr. KOTTHEM SAI MANOHAR bearing Regd.No.15P31D0403 in CAD/CAM to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under our guidance and supervision.

Signature of Internal guide Mr. P JAI KISHAN, Asst.Prof.

Department of Mechanical Engineering, Aditya College of Engg.& Technology Signature of Head of the Department Dr. T SRIHARI, Professor

Department of Mechanical Engineering, Aditya College of Engg.& Technology

EXTERNAL EXAMINER

(Approved by AICTE, New Delhi, and Accredited by NAAC and affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada) Surampalem-533437, Peddapuram, E.G.Dt., AP

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the thesis/dissertation entitled "Design and harmonic analysis of locomotive wheel axle" is being submitted by Ms. SATTI KRISHNA SUDHA bearing Regd.No.15P31D0405 in CAD/CAM to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under our guidance and supervision.

Signature of Internal guide

Mr. E'RAGHAVENDRA YADAV,

Asst.Prof.

Department of Mechanical Engineering, Aditya College of Engg.& Technology Signature of Head of the Department

Dr. T SRIHARI, Professor

Department of Mechanical Engineering, Aditya College of Engg.& Technology

EXTERNAL EXAMINER

(Approved by AICTE, New Delhi, and Accredited by NAAC and affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada) Surampalem-533437, Peddapuram, E.G.Dt., AP

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the thesis/dissertation entitled "Visco elastic analysis of cantilever beam using augmented thermodynamic field method in MATLAB" is being submitted by Mr. G N V V MANIKANTA bearing Regd.No.16P31D0401 in CAD/CAM to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under our guidance and supervision.

Signature of Internal guide Mr. P JAI KISHAN, Asst.Prof.

Department of Mechanical Engineering, Aditya College of Engg.& Technology Signature of Head of the Department Dr. T SRIHARI, Professor

Department of Mechanical Engineering, Aditya College of Engg. & Technology

EXTERNAL EXAMINER

(Approved by AICTE, New Delhi, and Accredited by NAAC and affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada) Surampalem-533437, Peddapuram, E.G.Dt., AP

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the thesis/dissertation entitled "Experimental and Numerical Evaluation of Modified Micro-Dvawt Manufacturing By Using Fusion Decomposition Modeling" is being submitted by Mr. POLUPARATHI RAMANA BABU bearing Regd.No.16P31D0402 in CAD/CAM to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under our guidance and supervision.

Signature of Internal guide Mr. P JAI KISHAN, Asst.Prof.

Department of Mechanical Engineering, Aditya College of Engg. & Technology

Signature of Head of the Department

Dr. T SRIHARI, Professor

Department of Mechanical Engineering, Aditya College of Engg. & Technology

EXTERNAL EXAMINER

(Approved by AICTE, New Delhi, and Accredited by NAAC and affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada) Surampalem-533437, Peddapuram, E.G.Dt., AP

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the thesis/dissertation entitled "Analytical and Numerical Analysis of Sandwich panels with Different Core Structures" is being submitted by Mr. SADALA SUBASH CHANDRA REDDY bearing Regd.No.16P31D0403 in CAD/CAM to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under our guidance and supervision.

Signature of Internal guide Mr. B SAROJ BABU, Asst.Prof.

Department of Mechanical Engineering, Aditya College of Engg.& Technology Signature of Head of the Department Dr. T SRIHARI, Professor

Department of Mechanical Engineering, Aditya College of Engg. & Technology

EXTERNAL EXAMINER

(Approved by AICTE, New Delhi, and Accredited by NAAC and affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada) Surampalem-533437, Peddapuram, E.G.Dt., AP

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the thesis/dissertation entitled "Optimization of Passenger Aircraft Fuselage Buckling Analysis" is being submitted by Ms. KADA DEVI bearing Regd.No.17P31D0404 in CAD/CAM to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under our guidance and supervision.

Signature of Internal guide Mr. G V AYYAPPA SWAMY,

Asst.Prof.

Department of Mechanical Engineering, Aditya College of Engg.& Technology Signature of Head of the Department Dr. T SRIHARI, Professor

Department of Mechanical Engineering, Aditya College of Engg.& Technology

EXTERNAL EXAMINER