

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, and Accredited by NAAC and affiliated to

Jawaharlal Nehru Technological University, Kakinada)

Surampalem-533437, Peddapuram, E. G. Dt., A.P

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the thesis/dissertation entitled “THERMAL ANALYSIS OF REFRIGERATION SYSTEM BY USING NANO REFRIGERANTS” is being submitted by Miss. **NUKELLA GANGA SRI RAMA LAKSHMI** bearing Regd. No. **14P31D2107** in partial fulfilment for the award of **MASTER OF TECHNOLOGY** in **THERMAL ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under our guidance and supervision.

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



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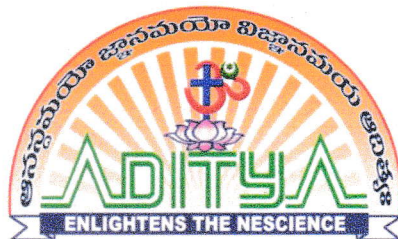
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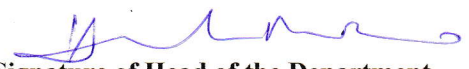
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This is to certify that the thesis/dissertation entitled **DESIGN AND CFD ANALYSIS ON COATED STEAM TURBINE BLADE** is being submitted by Mr. **BATHINEEDI NAGABABU** bearing Regd...No **15P31D2101** in partial fulfilment for the award of **MASTER OF TECHNOLOGY** in **THERMAL ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under our guidance and supervision.

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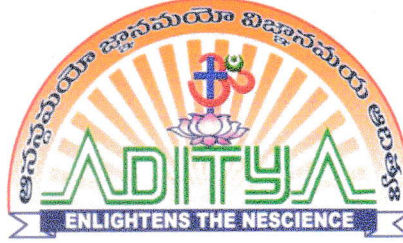
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This is to certify that the thesis/dissertation entitled “**MINIMIZATION OF ENTROPY IN SHELL AND TUBE HEAT EXCHANGER**” is being submitted by Miss **G.SNEHALATHA** bearing Regd. No 16P31D2101 in partial fulfilment for the award of **MASTER OF TECHNOLOGY** in **THERMAL ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under our guidance and supervision.

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CERTIFICATE

This is to certify that the thesis/dissertation entitled “**EXPERIMENTAL INVESTIGATION ON ENGINE PERFORMANCE AND EMISSION ANALYSIS OF DIESEL ENGINE OPERATING ON CALOPHYLLUM INOPHYLLUM OIL BIODIESEL BLENDS BY USING Al_2O_3 NANOPARTICLES WITH EGR**” is being submitted by Miss. **KYLASH SUJATHA** bearing Regd.No 16P31D2103 in partial fulfillment for the award of **MASTER OF TECHNOLOGY** in **THERMAL ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under our guidance and supervision.

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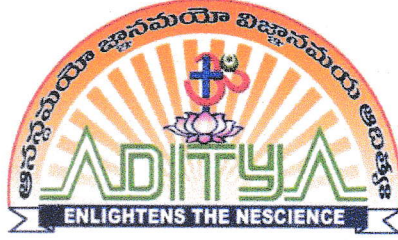
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This is to certify that the thesis/dissertation entitled DESIGN AND OPTIMIZATION OF WATER COOL CHILLER FOR CENTRAL AIR CONDITIONER is being submitted by **Ms. M. Lakshmi** bearing Regd...No 16P31D2104 in partial fulfilment for the award of **MASTER OF TECHNOLOGY** in **THERMAL ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him/her under our guidance and supervision.

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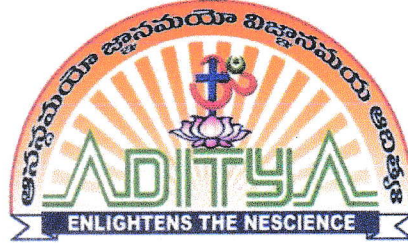
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This is to certify that the thesis/dissertation entitled “**Heat Transfer Enhancement using PIN-FIN Apparatus**” is being submitted by Mr. V DURGA SATEESH JUTTA bearing Regd.No.15P31D2115 in **THERMAL ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under our guidance and supervision.

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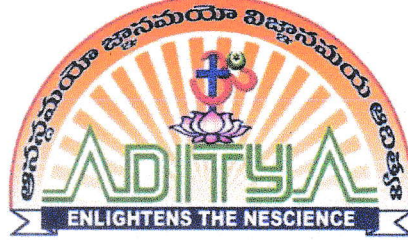
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This is to certify that the thesis/dissertation entitled “**Heat Transfer Enhancement in a Concentric Tube Heat exchanger with Screw Type Twisted tape**” is being submitted by Mr. **TAMMARAO KARRI** bearing Regd.No.**16P31D2106** in **THERMAL ENGINEERING** to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under our guidance and supervision.


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