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STRUCTURAL STRENGTH EVALUATION AND CFD ANALYSIS OF TURBULENT FLOW CHARACTERISTICS IN AN 11 INCH NOMINAL SIZE 5000 PSI TUBING HANGER

UNDERGRADUATE THESIS

Task Number: TKM2143KE04 / II – 2025 /2026 / AAN / 20 / 06 / 04.02 / 2026

Authored by:

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UNDERGRADUATE DEGREE IN MECHANICAL ENGINEERING
DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING
FACULTY OF ENGINEERING
GADJAH MADA UNIVERSITY
YOGYAKARTA
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EVALUASI KEKUATAN STRUKTUR DAN ANALISIS CFD KARAKTERISTIK ALIRAN TURBULEN DALAM *TUBING HANGER* DENGAN UKURAN NOMINAL 11 INCI TEKANAN KERJA 5000 PSI

SKRIPSI

Nomor Soal: TKM2143KE04 / II – 2025 /2026 / AAN / 20 / 06 / 04.02 / 2026

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APPROVAL FORM OF THE SUPERVISOR

Submitted to fulfil the requirements

To obtain **BACHELOR'S DEGREE**

In Mechanical Engineering

Department of Mechanical and Industrial Engineering

Gadjah Mada University

Yogyakarta

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SKRIPSI

Evaluasi Kekuatan Struktur dan Analisis CFD Karakteristik Aliran Turbulen dalam *Tubing Hanger* dengan Ukuran Nominal 11 Inci Tekanan Kerja 5000 Psi

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STATEMENT OF ORIGINALITY

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Muhammad Naufal Ainur Ridho

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UNDERGRADUATE FINAL PROJECT TASK CODE

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Yogyakarta, February 4th, 2026

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