



Diskusi Project Lab **SPRS**

30 April 2021



DESIGN & SYSTEM ENGINEERING LABORATORY

MECHANICAL ENGINEERING DEPARTMENT BRAWIJAYA UNIVERSITY MALANG
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PRODUCT

- COMPUTER SIMULATION TRAINING (FINITE ELEMENT & FINITE VOLUME METHOD, CAD/CAM, STRESS ANALYSIS, FLUID FLOW, etc)
- TRAINING & TEACHING AID PRODUCTION (PLC - PNEUMATIC)
- STUDY GROUP FOR RESEARCH, THESIS & SCIENTIFIC COMPETITION

FACILITIES

- COMPUTER I7 + PRINTER
- FESTO & SCHNEIDER PLC, SMART RELAY
- CONVEYOR & PNEUMATIC TEACHING AID
- RESEARCH - THESIS POSTER
- COMFORTABLE ROOM

RESEARCH

STRESS ANALYSIS : CRASH TEST, HELM IMPACT TEST
OPTIMUM DESIGN : METAL GASKET, BIOMEDICAL
METAL FORMING & METAL CUTTING SIMULATION
FRACTURE MECHANIC & FATIGUE
HEAT TRANSFER & FLUID FLOW
AUTOMATIC CONTROL & MANUFACTURING SYSTEM
COMPOSITE MODELLING

CONTACT PERSON :

HEAD OF DESIGN AND ENGINEERING SYSTEM LABORATORY
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Program Kerja Mendesak SPRS

1. Pelatihan ANSYS
2. Lomba dan Presentasi pada Seminar Nasional/Internasional
3. Mensukseskan Project Lab (Target 2024 Produk Crash box SPRS)

Training ONLINE

UM : Turbine

Unmer : Rolling

Presenter Seminar

Skripsi Dzia

Latihan Project Crash Box

Develop Kasus

Database Riset Crash Box

Master Procedure Setting Solving Crash Box

1. Setting Volume dan berat Impactor berpengaruh
2. Disarankan Fix tumpuan
3. Komparasi LSDyna – Explicit Dynamic perlu diperbaiki

Manajemen Lab

Akses PC dengan Anydesk

Akuisisi alat 3D Printing dari elmes atau beli baru

PPT Hasil CB - PowerPoint

Katanda Fajar Fauzi

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Variasi Pemodelan Crash Box

- ❖ Crash Box Silinder
 - Pemodelan Impactor: Lingkaran dan Kotak
 - Pemodelan Fix Support: Dengan Tumpuan dan Tanpa Tumpuan
 - Running Explicit Dynamics vs LS-Dyna
- ❖ Crash Box Persegi
 - Pemodelan Impactor: Volume
 - Pemodelan Fix Support: Dengan Tumpuan dan Tanpa Tumpuan
 - Running Explicit Dynamics vs LS-Dyna

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Katanda

Mahendra Zulqa...

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Geometri Crash Box Running Explicit Dynamic vs LS-Dyna

CrashBox Cylinder **CrashBox Rectangular**

Impactor

$g = 9,8066 \text{ m/s}^2$

$v = 7,67 \text{ m/s}$

Fixed Support

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