

Assignment Letter/Surat Tugas

No. AL/EIT/043/VI/19
 Date 22 June 2019
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 Doc. Type Main Document/*Dokumen Utama*

Community Service

Activity Assignment

Dean of the Faculty of Engineering and Information Technology

In consideration of:

His appointment as the the Dean of the Faculty of Engineering and Information Technology under agreement no. SK/017/Y-SGU/VIII/2018

Herewith gives the task to:

Name/*Nama:*

Position/*Jabatan:*

To participate on the following Community Service activity:

No	Event	Organizer	Date	Venue
1.	Seminar and Workshop: University Research to Support Engineering Product Development in Industry	MME – SGU in Collaboration with PT. United Tractors Pandu Engineering	Fri, 28 June 2019 08.30 – 17.00	PT United Tractors Pandu Engineering

The appointed shall accomplish the task in responsible ways in line with the related guidelines and other regulations given by SGU

Penugasan Kegiatan

Dekan Fakultas Teknik dan Teknologi Informasi

Mengingat:

Pengangkatannya sebagai Dekan Fakultas Teknik dan Teknologi Informasi di bawah perjanjian no. SK/017/Y-SGU/VIII/2018

Dengan ini menugaskan kepada:

As listed attached/ sesuai pada lampiran

As listed attached/ sesuai pada lampiran

Untuk berpartisipasi dalam kegiatan Pengabdian Masyarakat berikut ini:

Pihak yang bersangkutan harus melaksanakan tugas dan tanggung jawab sebaik-baiknya, sesuai dengan petunjuk dan peraturan dari SGU.

Assignor / Pemberi Ijin:



Dr. Maulahikmah Galinium, S.Kom., M.Sc

Dean of Faculty Engineering and Information Technology
Dekan Fakultas Tehnik dan Teknologi Informatika

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List of Participate on the event "Seminar", PT. United Tractors Pandu Engineering, 28 June 2019

- Dena Hendriana, B.Sc., S.M., Sc.D as speaker with the Topic : Application of Computational Fluid in Engineering Product Development
- Dr. Ir. Gembong Baskoro, M.Sc as speaker with the Topic : Innovation Technology for New Product Development
- Aulia Arif Iskandar, M.T (SGU) as Moderator
- Siti Ayu Diana Lestari, S.Pd (SGU) as Committee
- Anis Choirunnisa, M.Kom (SGU) as Committee
- Somanudin, MM (SGU) as Committee
- Eki Budi Fatari (PATRIA) as Committee



Environmental Control System's for Fire Product Development
Dr. Ganie Soemartono

Air Curtain Development Closed Grille, Static Ground

Original design Air Curtain inlet:	Proposed design Air Curtain inlet:
<ul style="list-style-type: none">At fire compartmentDimension: 150 mm x 30 mm	<ul style="list-style-type: none">At fire compartmentDimension: 150 mm x 30 mm

Air Curtain Outlet:

- At front without wind deflector
- More discharge grille
- Dimension: 15 mm x 30 mm



Computational Fluid Dynamics for New Product Development

By:

Dr. Dena Hendriana

Head of Master of Mechanical Engineering (MME)

Swiss German University (SGU)



Biodata

Dr. Dena Hendriana



Education

- Bachelor of Science, Northeastern University, Boston, USA, 1992
- Master of Science, Massachusetts Institute of Technology, Cambridge, USA, 1994
- Doctor of Science, Massachusetts Institute of Technology, Cambridge, USA, 1998

Working Experience

- Swiss German University, Tangerang, 2015 - now
- Surya University, Tangerang, 2013 - 2015
- Ford Motor Company, Michigan, USA, 2011 - 2013
- EXA Corporation, Michigan, USA, 2005 - 2011
- PT. JSU, Depok, 2003 - 2005
- Chrysler, Michigan, USA, 2000 - 2003
- General Motors, Michigan, USA, 1998 - 2000



Military Education / Menwa

- Diksar Menwa (Halilintar V), Dodiklatpur Rindam Jaya - TNI AD
- Provost Menwa SGU (2016 - 2017)
- Bid Org IARMI komsat SGU (2017 - 2020)
- Brevet: Hirbak Mahawarman, Scuba Lakespra TNI AU, HUET Lakespra TNI AU



Purpose of New Product Development:

- To improve product quality
 - Efficiency
 - Reliability / robustness
- To satisfy customer requirements
 - Following trend
 - Comfort
 - User-friendliness
- To maintain and grow the product market share
 - To win product competition, in term of quality and price
- Adopt new technology
- Adapt to new environment / new condition

Steps of New Product Development:

- Generating ideas
- Screening the ideas
- Testing the concepts
- Business Analysis
- Product Development
 - Engineering tools
 - Prototyping and test
- Marketability Tests
- Commercialize
- Post launch review and perfect pricing

Engineering Tools for Product Development:

➤ CAD Engineering Design tools

- AutoCAD
- CATIA

➤ Structural analysis (Finite Element Analysis) tools

- SolidWorks

➤ **Computational Fluid Dynamics analysis tools**

- OpenFOAM
- Ansys (Fluent)
- Star CD

➤ Computer-aided Manufacturing tools

➤ HVAC design software