

## Curriculum Vitae

1. Name : Juwari, ST., M. Eng, PhD
2. NIP : 197306151999031003
3. Place and Date of Birth : Magetan, 15 Juni 1973
4. Nationality : Indonesia
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Surabaya
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7. Educational :

No.	Name of University/ Institution	Year Attained	Major Subject	Degree
1.	Universiti Malaysia Pahang	2011	Chemical Process Control	Doctor of Philosophy
2.	Universiti Teknologi Malaysia	2005	Process System Engineering.	Master of Eng.
3.	Institute Teknologi Sepuluh Nopember, Indonesia	1998	Chemical Eng.	Sarjana Teknik

8. **Employment/Professional record** : 1999 - Now Academic Staff of Chem. Eng. Dept. ITS  
2005 - 2006 Student Advisory Team  
2007 - 2009 Fellowship student (Lecture Assistant at University Malaysia Pahang)  
2015- 2019 Head of Department of Chemical Engineering ITS  
2015-2018 Head of Indonesian Chemical Engineering Education Association  
2020 – Now Vice Dean Faculty of Industrial Technology and System Engineering

### 9. Trainer / Training

- a. Trainer: Hysys.Plant and Matlab software (2005- now)
- b. Trainer : Safety in Laboratory and Risk Assesment (2019-now)
- c. Training : Recourse Efficiency and Cleaner Product (RECP), Dispersion simulation by Gexcon using FLACS software, SMK3 (2015- 2020)
- d. On the job training at Venyl Chloride Monomer SDN.BHD Petronas Malaysia (2011)
- e. Investigation team in several events at chemical industries (2020-now)
- f. Safety Process workshop in Malaysia (2019)

g. Hazmat training in Taiwan (2019)

10 **Lecturer experiences**

- a Chemical Proces Control
- b Chemical Process Safety
- c Chemical Process Design
- d Thermodynamics
- e Fundamental calculation in Chemical Engineering

11. **Industrial experiences**

- a. Feasibility study Waste Heat Steam Generation PT Semen Gresik (2013)
- b. Shrinkage salt analysis at PT Garam (2015)
- c. Document reviewer for Shipping CNG at PT PLN Engineering (2014-2015)
- d. Assessment mass and energy balance for PG Tjoekir Jombang and PG Pesantren Kediri (2015)
- e. Feasibility study: Wood Pellet Production, SIER (2019)
- f. Reviewer for several Petrol station in Surabaya (2019)

12. **Publications**

- Mualim, A., Huda, H., Altway, A., Sutikno, J.P., Handogo, R. (2021) *Evaluation of multiple time carbon capture and storage network with capital-carbon trade-off*, Journal of Cleaner Production, 2021, 291, 125710
- Kharisma, N., Arianti, P.S.D., Affandy, S.A., **Juwari**, Renanto (2020) **Process Design and Steady State Simulation of Natural Gas Dehydration Using Triethylene Glycol (TEG) to Obtain the Optimum Total Annual Costs (TAC)** , IOP Conference Series: Materials Science and Engineering
- Juwari**, Handogo, R., Cahyono, T., Reza Habibi, M., Nuur Kharisma, M.(2020) **Simulation of Natural Gas Dispersion and Explosion in Vented Enclosure using 3D CFD FLACS Software**, IOP Conference Series: Materials Science and Engineering
- Handogo, R., **Juwari**, Altway, A., Annasit (2020) **Evaluation of CCS Networks Based on Pinch Design Method in the Central Part of Indonesia**, IOP Conference Series: Materials Science and Engineering
- Azizah, Z., **Sutikno, J.P.**, Handogo, R., Hikmadiyar, R.A.(2020) **Inverted decoupling MIMO internal model control using Mp tuning**, IOP Conference Series: Materials Science and Engineering
- Hikmadiyar, R.A., **Sutikno, J.P.**, Handogo, R., Azizah, Z.(2020) **A control strategy for nonconventional column/rectifier configuration for composition control**, IOP Conference Series: Materials Science and Engineering
- Sutikno, J.P.**, Azizah, Z., Handogo, R., Hikmadiyar, R.A., Hisyam, A. (2019) **Inverted decoupling 2DoF internal model control for MIMO processes** , International Journal of Technology
- Hikmadiyar, R.A., **Sutikno, J.P.**, Handogo, R., Azizah, Z., Hisyam, A (2019) **Process Dynamic and Control for Nonconventional Column/Rectifier Configuration with Aspen Hysys v10.0** , IOP Conference Series: Materials Science and Engineering

- Affandy, S. A., Renanto, **Juwari**, & Chien, I. L. (2017). Simulation and optimization of structured packing replacement in absorption column of natural gas dehydration unit using triethylene glycol (TEG). *2017 6th International Symposium on Advanced Control of Industrial Processes, AdCONIP 2017*, 275–281. <https://doi.org/10.1109/ADCONIP.2017.7983793>
- Astuti, D. W., **Juwari**, J., & Handogo, R. (2015). Mp Tuning for Internal Model Control 2x2 Multi Input Multi Output (MIMO) System. *IPTEK Journal of Proceedings Series*, 1(1), 467–473. <https://doi.org/10.12962/j23546026.y2014i1.274>
- Azizah, Z., Arlita, A. D., Rahayu, S. P., Arifin, I., Hisyam, A., Renanto, & **Juwari**. (2017). Process control on modified III Quadruple Tank using LabVIEW application. *AIP Conference Proceedings*, 1840. <https://doi.org/10.1063/1.4982295>
- Gumelar, Nia, **Juwari**, & Renanto. (2015). Process Dynamic and Control Modified II Quadruple-Tank on LabView Application.
- Hakim, M. L., Achmad, B., & **Sutikno, J. P.** (2018). Anti Surge Control of Centrifugal Compressor at PT . Pertamina EP Asset 2 Field Pendopo, *1010*, 1–7.
- Handogo, R., **Juwari**, Darmawan, I., & Marsha, F. A. (2016). Performance Evaluation of Deethanizer Column Using Real Time Optimization, *12(1)*, 115–119.
- Handogo, R., **Sutikno, J. P.**, Prasetyo, R. B., & Citra, H. (2017). Simulasi Distilasi Vakum dan Thin Film Evaporator untuk Memisahkan Lube Oil dari Fraksi Berat Minyak Pelumas Bekas, 1–7.
- Haura, A. L., Ma'mun, K. Q., **Sutikno, J. P.**, & Handogo, R. (2017). Re-refinery used oil vacuum distillation column control by using internal model control. *Chemical Engineering Transactions*, 56, 1471–1476. <https://doi.org/10.3303/CET1756246>
- Hidayah, N., **Juwari**, & Handogo, R. (2016). METODE TUNING MAXIMUM PEAK – GAIN MARGIN (Mp – GM) UNTUK PENGENDALI 2DoF FEEDBACK. *Jurnal Sains Dan Terapan Politeknik Hasnur*, 4(April), 840–847.
- Holilah, H., Prasetyoko, D., Oetami, T. P., Santosa, E. B., Zein, Y. M., Bahruji, H., ... **Juwari, J.** (2015). The potential of Reutealis trisperma seed as a new non-edible source for biodiesel production. *Biomass Conversion and Biorefinery*, 5(4), 347–353. <https://doi.org/10.1007/s13399-014-0150-6>
- Juliastuti, S. R., Hendrianie, N., **Juwari**, Qadariyah, L., Mahmudah, S., Wiguno, A., Ningrum, E. O., ... Nopember, S. (2017). Increasing The Value of Corn Crop Into Organic Fertilizer by Using an Aerobic Digester. *The Journal for Technology and Science*.
- Juwari**. (2016). Characteristic Dynamic of Quadruple Tank Modified III. *2016 International Symposium for Young Chemical Engineers Characteristic NTUST Taiwan*, (2014), 1–9.
- Juwari**, Chin, S. Y., Abdul Samad, N. A. F., & Abdul Aziz, B. B. (2008). Two-degree-of-freedom internal model control for parallel cascade scheme. *Proceedings - International Symposium on Information Technology 2008, ITSIM*, 4(September). <https://doi.org/10.1109/ITSIM.2008.4632063>
- Juwari**, Chin, S. Y., Samad, N. A. F. A., & Aziz, B. B. A. (2008). A structure of two-degree-of-freedom internal model control from feedback/feedforward scheme. *2008 10th International Conference on Control, Automation, Robotics and Vision, ICARCV 2008*, (December), 2044–2048. <https://doi.org/10.1109/ICARCV.2008.4795845>
- Kurniawan, A. M., Handogo, R., Lee, H.-Y., & **Sutikno, J. P.** (2018). Non-square open-loop dynamic model of methyl acetate production process by using reactive distillation column. *MATEC Web of Conferences*, 154, 1008. <https://doi.org/10.1051/mateconf/201815401008>
- Licindo, D., Christin Paramudita, A., Handogo, R., & **Purwo Sutikno, J.** (2015). Optimization

- of Network Carbon Capture and Storage System (CCS) Using Mathematical Approach. *Modern Applied Science*, 9(7), 161–168. <https://doi.org/10.5539/mas.v9n7p161>
- Licindo, D., Handogo, R., & **Sutikno, J. P.** (2015). Cost Optimization In The Scheduling On Heat Exchanger Cleaning Process, 29–30.
- Licindo, D., Handogo, R., & **Sutikno, J. P.** (2015). Optimization on Scheduling for Cleaning Heat Exchangers in The Heat Exchanger Networks. *Chemical Engineering Transactions*, 45(m), 835–840. <https://doi.org/10.3303/CET1545140>
- Pratiwi, V. D., **Juwari, J.**, & Handogo, R. (2017). Simulation of Hydrogen Purification using Two Bed System Pressure Swing Adsorption. *IPTEK Journal of Proceedings Series*, (2), 14. <https://doi.org/10.12962/j23546026.y2017i2.2272>
- Putra, A. A., **Juwari, J.**, & Handogo, R. (2017). Technical and economical evaluation of carbon dioxide capture and conversion to methanol process, 70007, 70007. <https://doi.org/10.1063/1.4982296>
- Sudarni, D. H. A., & Handogo, R. **Juwari, J.** (2016). Process Safety Index in Chemical Process, 10–13.
- Sudarni, D. H. A., & **Juwari, J.** (2018). Pengukuran Indeks Keamanan Proses Produksi MMA (Methyl Methacrylate) dengan ISV (Index Safety Value). *Chemical Engineering Research Articles*, 1(1), 26–30.
- Sutikno, J. P.**, Aldina, S., Sari, N., & Handogo, R. (2018). Utilization of Solar Energy for Air Conditioning System, 3040, 1–6.
- Sutikno, J. P.**, Chin, S. Y., Abdul Aziz, B. B., & Mamat, R. (2012). Experimental implementation of the Mp-GM (maximum peak - Gain margin) tuning method: A tuning method for 2DOF-IMC under uncertainty process. *2012 International Conference on Systems and Informatics, ICSAI 2012*, (Icsai), 414–418. <https://doi.org/10.1109/ICSAI.2012.6223648>
- Sutikno, J. P.**, Handogo, R., Arifin, I., Rahayu, S. P., Putra, V. D., Fauzan, N., & Hisyam, A. (2017). Implementation of state-feedback controller on quadruple tank modified I system. *Chemical Engineering Transactions*, 56(2013), 853–858. <https://doi.org/10.3303/CET1756143>