



Curriculum Vitae

Dr. Ir. Fatchul Arifin, M.T.



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Unit Kerja : Fakultas Teknik

Status : Tenaga Pendidik

Keahlian :

- Intelligent Control System
- Biomedical Electronic Engineering

Bidang Pendidikan :

PENGALAMAN MENGAJAR

Mata Kuliah	Program Pendidikan	Institusi/Jurusan/Program Studi	Sem/Tahun Akademik.
Mikroprocessor	Diploma	Teknik Elektronika	Sem Gasal 2014
Sistem Kendali	S1 PTE	Pend Teknik Elektronika	Sem Genap 2014
Teknik Digital	S1 PTI	Pend Teknik Informatika	Sem Gasal 2014
Sistem Cerdas	S2	Pend Teknologi Kejuruan	Sem Gasal 2014
Piranti Sistem Kendali dan Instrumentasi	S2	Pend Teknologi Kejuruan	Sem Genap 2015

File Bidang Pendidikan :

- [silabus-sistem-kendali-ii-2014](#)
- [silabus-teknik-digital-2014](#)
- [01-tek-dig-sistembilangan](#)
- [02-tek-dig-gerbang-logika](#)
- [silabus-sistem-cerdas-ok](#)
- [latihan-fuzzy-logic](#)
- [fuzzy-rule-i](#)
- [fuzzy-rule-ii](#)
- [defuzzification](#)
- [Silabi+Perancangan+Sistem+Instrumentasi+dan+Kendali+Pascasarjana+PTK_0](#)
- [silabus-sk-d-ok-fatchul](#)
- [silabus-elektronika-industri](#)
- [rpp-sk-d-ok-fatchul](#)



- ✖ [gbpp-t-digital](#)
- ✖ [rpp-skd-ok-fatchul_0](#)
- ✖ [00-plc-omrom-cpm2a-pengenalan](#)
- ✖ [02-diagram-ladder](#)
- ✖ [03-hal-hal-penting-dalam-memprogram-plc](#)
- ✖ [analisa-ketabilan-sistem-1](#)
- ✖ [analisa-ketabilan-sistem-2-resume](#)
- ✖ [analisa-response-system-far](#)
- ✖ [job-sheet-skd-response-frekuensi](#)
- ✖ [penganar-plc](#)
- ✖ [pid-controller](#)
- ✖ [program-console](#)
- ✖ [response-sistem-waktu-dan-frekuensi-sistem-kendali](#)

Bidang Penelitian :

List of the researches projects and its position at the projects (1. Principal investigator, 2. Member, 3. Consultant)

No.	Year	Project Title	Position
1.	2013	Intonation Classification of speech Base on Neck Muscle EMG Signal, Funded by Dikti (Hibah doktor)	1
2.	2012	Helping Device for Speech Base on Microcamera II, Funded by Dikti (Hibah bersaing)	1
3.	2011	Helping Device for Speech Base on Microcamera I, Funded by Dikti (Hibah bersaing)	1
4.	2009	ElectroLarynx, Esopahgus, and Normal Speech Classification using Gradient Discent, Gradient discent with momentum and learning rate, and Levenberg-Marquardt Algorithm	1
5.	2009	Modul of Speech Recognition system Using Matlab	3
6.	2009	Modul of pattern Recognition base microcontroller based on Microcontroller ATemega 16	3
7.	2008	Electronic Nose For detecting of Impure Gasoline	1
8.	2007	Remote Fuzzy Logic Controller Based on WEB	1
9.	2007	Fuzzy Logic Temperature Controller Based on Microcontroller AT89S51	3
10.	2007	System Information Management of Libraries based on SMS	3
11.	2006	Water Gate Controller based on telephone DTMF, 2006	3
12.	2005	Design and Simulation Vehicle Suspension Based on Optimal Control, Funded by DIKTI (DIKS)	1
13.	2005	Fuzzy Logic as Mobile Robot Navigation Controller, Funded By DIKTI	2
14.	2005	Monitoring of Air Pollution based on Microcontroller	3
15.	2004	Classification of Pap Smear result (cancer) based on Artificial Neural Network,	2

16.	2004	Architecture of Soft Switch to Control Communication in Varying of Heterogenic Network, Funded by minister of research and technology	2
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List of The scientific publications published in journals / seminary proceeding

No.	Year	Article Title	Journal's name and place of publication
1.	2014	The Relationship between Electromyography Signal of Neck Muscle and Human Voice Signal for Controlling Loudness of Electrolarynx	International Journal: Biomedical Engineering - Application Basis and Communication
2.	2010	Electrolarynx Voice Recognition Utilizing Pulsed Coupled Neural Network	Jurnal Nasional terakreditasi "IPTEK", Institut Teknologi surabaya.
3.	2010	ElectroLarynx, Esopahgus, and Normal Speech Classification using Gradient Discent, Gradient discent with momentum and learning rate, and Levenberg-Marquardt Algorithm	Proceeding of International Conference Green Computing 2010 and AUN/SEED NET, UGM Yogyakarta
4.	2009	Electronic Nose For detecting of Impure Gasoline	Proceeding of International Conference on Communication Technology & System, ITS Surabaya
5.	2007	Fuzzy Logic as mobile robot navigation Controller	Proceeding of National Seminar, Seminar of Information Technology Research (SRITI), AKAKOM, Yogyakarta , Indonesia
6.	2006	Design and Simulation Vehicle Suspension Based on Optimal Control	National journal TELKOMNIKA, Ahmad Dahlan University, Yogyakarta, Indonesia
7.	2005	Classification of Pap Smear result (cancer) based Artificial Neural Network.	National journal SAINSTEK, Yogyakarta State University, Yogyakarta, Indonesia
8.	2002	Rapid Prototyping of TMS 320C5000 DSP Processor using Simulink/Matlab	APCC (Asia Pacific Conference on Communication) 2002, ITB Bandung
9.	1999	Searching Engine for Solar Position Based on Microcontroller 8051	National Journal JPTK, Yogyakarta State University, Yogyakarta, 1999

File Bidang Penelitian :

-  [jurnal-terbit-bme-abc-terindex-scoupus](#)
-  [paper-ter-publish-di-jurnal-iptek](#)
-  [paper-di-seminar-international-icgc](#)
-  [paper-di-seminar-international-bme-days](#)
-  [electrolarynx-esophagus-and-normal-speech-classisification-seminar-interational-icgc-2010](#)



-  [jurnal-terbit-bme-abc-terindex-scopus-v2](#)
-  [bukti-publikasi-ilmiah-esophageal-speech-recognition-utilizing-pulsed-coupled-neural-network-bme-day](#)
-  [development of "batik detector" as a learning media for indonesia batik motif - android based in indo](#)
-  [lip-reading-based-background-subtraction-and-image-projection-seminar-internasional](#)
-  [electrolarynx-detection-berbasis-sinyal-emg-otot-leher-prosiding-elinvo-2015](#)
-  [speech-recognizing-presentation-tool-navigation-using-back-proceding-sem-internasional-matec-ok](#)
-  [robot-pemadam-api-berbasis-fuzzy-logic-prosiding-semnas-elinvooktober-2016](#)
-  [hak-ciapa-haki-media-pembelajaran-batik-detektor](#)
-  [electrolarynx-voice-recognition-utilizing-pulsed-coupled-neural-network-jurnal-terakreditasi-iptek](#)
-  [jurnal-internasional-bme-abc](#)
-  [seminar-ticst-thailand-terindex-scopus](#)
-  [seminar-internasioal-icitsi-terindex-scopus](#)
-  [seminar-internasional-bme-days](#)
-  [paper-enose-di-icts-2009-surabaya](#)
-  [paper-di-sitia-2013](#)

Bidang Pengabdian :

No	Tahun	Jabatan	Nama Kegiatan
1	2006	Anggota	Pelatihan internet untuk guru SMP Sleman utara
2	2005	Anggota	Pelatihan internet untuk guru Muhammadiyah
3	2004	Juri	Lomba PKS Yogya

File Bidang Pengabdian :

-  [sertifikat-ppm-1](#)
-  [sertifikat-ppm-2](#)
-  [sertifikat-ppm-3](#)

Penunjang :

File Penunjang :

-  [sertifikat-masdali](#)