

Provisional Research Topics for AUN/SEED-Net students 2010/2011

International College and Faculty of Engineering, KMITL

Advisor name	1. Assoc. Prof. Dr. Vijit Kinnares
Co-advisor name	Dr. Suphot Chunwiphat Dept. of Electrics Engineering Technology, College of Ind. Tech. KMUTNB
Proposed research topic (Should be relevant to ICT)	- Artificial intelligence based Faults Diagnosis - On-line Laboratory System via Internet Network - Applying IT Tools to a Laboratory Course for Measurement Analysis and Design of Electric and Electronic Circuits
External collaboration (if available)	-
programme	For M.ENG degree For D.ENG degree
Advisor name	2. Asst. Prof. Dr. Anuwat Jangwanitlert
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	An Internal UPS for Desktop Computer Using Switched-Mode Power Supply
External collaboration (if available)	-
programme	For M.ENG degree
Advisor name	3. Asst. Prof. Dr. Pornchai Supnithi
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	- Signal Processing/Detector in magnetic recording systems * Hard disk drive technology, Solid-state disk drive technology - Signal Processing /Detector in Communication systems - Error correction codes/Iterative processing - Radio propagation/Rain attenuation/Ionospheric study/GPS-TEC - Software defined radios - Tele-education via IP-based satellites

External collaboration (if available)	(Signal Processing/Detector in magnetic recording systems) (Error correction codes/Iterative processing) Prof. David Mapps Plymouth University, England Assoc.Prof. Okamoto Ehime University, Japan (Radio propagation/Rain attenuation/Ionospheric study/GPS-TEC) (Software defined radios) Assoc. Prof. Yamamoto Kyoto University, Japan Dr. Maruyama NICT, Japan Prof. Ong NTC, Singapore Prof. Hajime Tokyo Metropolitan University (TMU) (Tele-education via IP-based satellites) Prof. Hamamoto Tokai University, Japan
programme	For M.ENG degree For D.ENG degree
Advisor name	4. Assoc. Prof. Dr. Chanin Bunlaksananusorn
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	Analyses and Design of Power supply systems for ICT Equipment
External collaboration (if available)	-
programme	For M.ENG degree For D.ENG degree
Advisor name	5. Assoc. Prof. Dr. Werachet Khan-ngern
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	Electromagnetic Compatibility
External collaboration (if available)	-
programme	For M.ENG degree For D.ENG degree

Advisor name	6. Assoc.Prof.Dr.Somchat Jiriwibhakorn
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	Applications of AI in Electrical Engineering
External collaboration (if available)	-
programme	For M.ENG degree For D.ENG degree
Advisor name	7. Assoc.Prof.Dr. Issarachai Ngamroo
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	Synchronized Phasor Measurements-Based Wide Area Power System Stabilizing Control
External collaboration (if available)	Prof Tadahiro GoDa Kyushu University
programme	For M.ENG degree For D.ENG degree
Advisor name	8. Asst.Prof.Dr. Surin Kittitornkun
Co-advisor name	Dr. Sompob Pollamai
Proposed research topic (Should be relevant to ICT)	Application of Mobile Agent Technology for Control of Power Sources in Microgrid
External collaboration (if available)	Prof.Ise Osaka University
programme	For M.ENG degree For D.ENG degree

Advisor name	9. Assoc.Prof.Dr. Taweepol Suesut
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	Metric vision, Real-time image Processing, Image Acquisition Application in automated industrial measurement, Food processing inspection system.
External collaboration (if available)	
programme	For M.ENG degree For D.ENG degree
Advisor name	10. Asst. Prof. Dr. Somkait Udomhunsakul
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	Noise reduction, Image Fusion, Feature extraction or any interested topics related to Digital Image Processing
External collaboration (if available)	Prof.Dr. Kazuhiuo Hamamoto Tokai University
programme	For M.ENG degree For D.ENG degree
Advisor name	11. Asst. Prof. Dr. Kraisin Songwatana
Co-advisor name	Prof. Dr. Yoshikazu Miyanaga Hokkaido University
Proposed research topic (Should be relevant to ICT)	Speech Recognition for Asian Languages
External collaboration (if available)	-
programme	For M.ENG degree For D.ENG degree

Advisor name	12. Asst.Prof.Dr. Chow Chompoo-inwai
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	Data acquisition applications in measuring systems
External collaboration (if available)	-
programme	For M.ENG degree
Advisor name	13. Assoc.Prof. Dr. Somsak Mitatha
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	Optical computer systems
External collaboration (if available)	-
programme	For M.ENG degree
Advisor name	14. Assist. Prof. Dr. Chuwong Phongcharoenpanich
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	Ultra-Wideband Antenna for Body-Centric Applications
External collaboration (if available)	Prof.Dr. Kazuhiuo Hamamoto Tokai University
programme	For D.ENG degree
Advisor name	15. Asst.Prof.Dr. Surin Kittitornkun and Dr.Chivalai Temiyasathit
Co-advisor name	Prof.Dr. Shigenori Tomiyama Tokai University
Proposed research topic (Should be relevant to ICT)	Data Mining on Network Storage with FPGA
External collaboration (if available)	
programme	For M.ENG degree For D.ENG degree

Advisor name	16. Dr. Panarat Cherntanomwong
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	Direction finding, Array signal processing, Location finding and tracking using RFID technology and wireless sensor network, or any interested topics related to wireless communication system
External collaboration (if available)	Prof. Jun-ichi TAKADA (Tokyo Institute of Technology, Japan) and Dr. Hiroyuki Tsuji (National Institute of Information and Communications Technology; NICT, Japan)
programme	For M.ENG degree For D.ENG degree
Advisor name	17. Asst. Prof. Dr. Pitak Thumarin
Co-advisor name	Prof. Dr. Takenobu Matsuura
Proposed research topic (Should be relevant to ICT)	Pattern recognition Biometrics, Visual inspection
External collaboration (if available)	-
programme	For D.ENG degree

(More research topics are available, please contact ic@kmitl.ac.th)