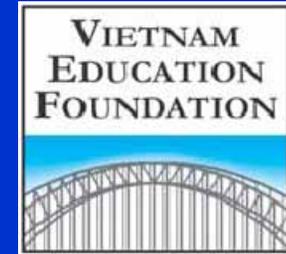


**First VEF Alumni Conference**

**December 12, 2008**

**Hanoi - Vietnam**



# **TRAINING OF TRAINERS ACTIVITY AT THE UNIVERSITY OF DANANG**

**Viet Thanh Dinh,  
VEF Visiting Scholar cohort 2007,  
Danang University of Technology,  
University of Danang, Vietnam**

A circular wreath of pink flowers and greenery is centered on a solid blue background. The wreath features a large, prominent pink rose at the top, surrounded by smaller pink flowers and green leaves. The text is overlaid on the wreath.

**Some pictures on  
training of trainers  
activity at the  
University of Danang**

**ALWAYS ON MY MIND**

# Friendly teaching and learning



# The trainers learn and practice together with the Professor



# Critical thinking



# Professor explains to the trainers



# Hard working and discussion between the trainers



# Professor helps every trainer



# Some my other activities of teaching and training at the University of Danang



# Webpage for teaching

Welcome to Dinh Thanh Viet's homepage (Dinh Thanh Viet) - Mozilla Firefox

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http://sites.google.com/site/dinhthanhviet/ Google

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## Welcome to Dinh Thanh Viet's homepage



**Dinh Thành Việt**  
Associate Professor, PhD, IEEE Member  
Associate Dean, Faculty of Electrical Engineering  
[Danang University of Technology](#).  
54 Nguyen Luong Bang st., Hoa Khanh ward,  
Lien Chieu district, Danang city, Vietnam  
Office phone: (84)-511-3842738, Email: [dtviet@dut.udn.vn](mailto:dtviet@dut.udn.vn), [dtviet1970@gmail.com](mailto:dtviet1970@gmail.com)

**Background:**

- 8/2008: Associate Professor, Associate Dean of Faculty of Electrical Engineering, University of Technology, The University of Danang, Vietnam.
- 8/2007-8/2008: Visiting Scholar at School of Electrical Engineering and Computer Science, Washington State University (WSU), sponsored by Vietnam Education Foundation (VEF).
- 2006: Associate Professor, Associate Dean of Faculty of Electrical Engineering, University of Technology, The University of Danang, Vietnam.
- 2005: Associate Dean of Faculty of Electrical Engineering, University of Technology, The University of Danang, Vietnam.
- 1997: Assistant Professor, Faculty of Electrical Engineering, Danang University of Technology, Vietnam
- 1997: PhD of Engineering, Vinnytsia State Technical University, Ukraine
- 1993: Diploma Engineer and Master of Engineering, (major: Power system and network), Vinnytsia Polytechnic Institute, Ukraine

Done

# Class announcement & useful links

Class announcement (Dinh Thanh Viet) - Mozilla Firefox

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http://sites.google.com/site/dinhthanhviet/dinh-thanh-viets-homepage

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Navigation

- Sitemap

Recent site activity

- Class announcement edited by Viet Dinh comment from Viet Dinh
- Data attachment from Viet Dinh
- 6-4 attachment from Viet Dinh
- 6-3 attachment from Viet Dinh
- View All

Edit sidebar

## Class announcement

**Syllabus:** (1st semester 2008-2009):

Class	Course	Lecture time	Office hour	Note
<a href="#">04DHT</a>	Power system communication and dispatch	Tue 1-3 F406	13h30-16h30 Tuesday, A201	
04D1A, 04D1B	Power system communication and dispatch	Tue 4-6 F405	13h30-16h30 Tuesday, A201	
<a href="#">05DHT</a> , <a href="#">05DTD</a>	Power system	Wed 8- 12 F302	13h30-16h30 Tuesday, A201	

**Syllabus:** (2st semester 2008-2009):

Class	Course	Lecture time	Office hour	Note

**Lecture notes:**

- [Power system](#)
- [Power system communication and control](#)

**Useful link:**

**Power system:**

- [Transmission and Distribution World](#)
- [Power Systems Test Case Archive](#)

**SCADA/EMS:**

- [Illinois security lab](#)
- [Distributed Network Protocol \(DNP\)](#)
- [TC Communication](#)
- [Data communication basic](#)
- [Lammer Bies](#)
- [RS232 flow control and handshaking](#)
- [RS232 Specifications and standard](#)
- [The RS232 Standard](#)

**Energy efficiency:**

- <http://www.tietkiemnangluong.vn/>
- [MIT energy initiative](#)

http://sites.google.com/site/dinhthanhviet/dinh-thanh-viets-homepage

10:30 AM

# Lecture notes, software requirement and necessary files for students to download

Class announcement (Dinh Thanh Viet) - Mozilla Firefox

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		time		

**Lecture notes:**  
[Power system](#)  
[Power system communication and control](#)

**Software requirement:**  
[MATLAB](#)  
[PowerWorld](#)  
[Tinh toán mạng điện](#)

**Current PhD students:**  
1. Nguyen Van Le, Application of artificial intelligent in power system diagnosis.  
2. Le Huu Hung, Voltage stability assessment of Vietnamese power system.

Subpages (1): [Sinh viên tại chức](#)

**Attachments (1)**  
 [bu so bo.xls](#) 18k - on Sep 17, 2008 4:52 PM by Viet Dinh (version 1) [Remove](#)

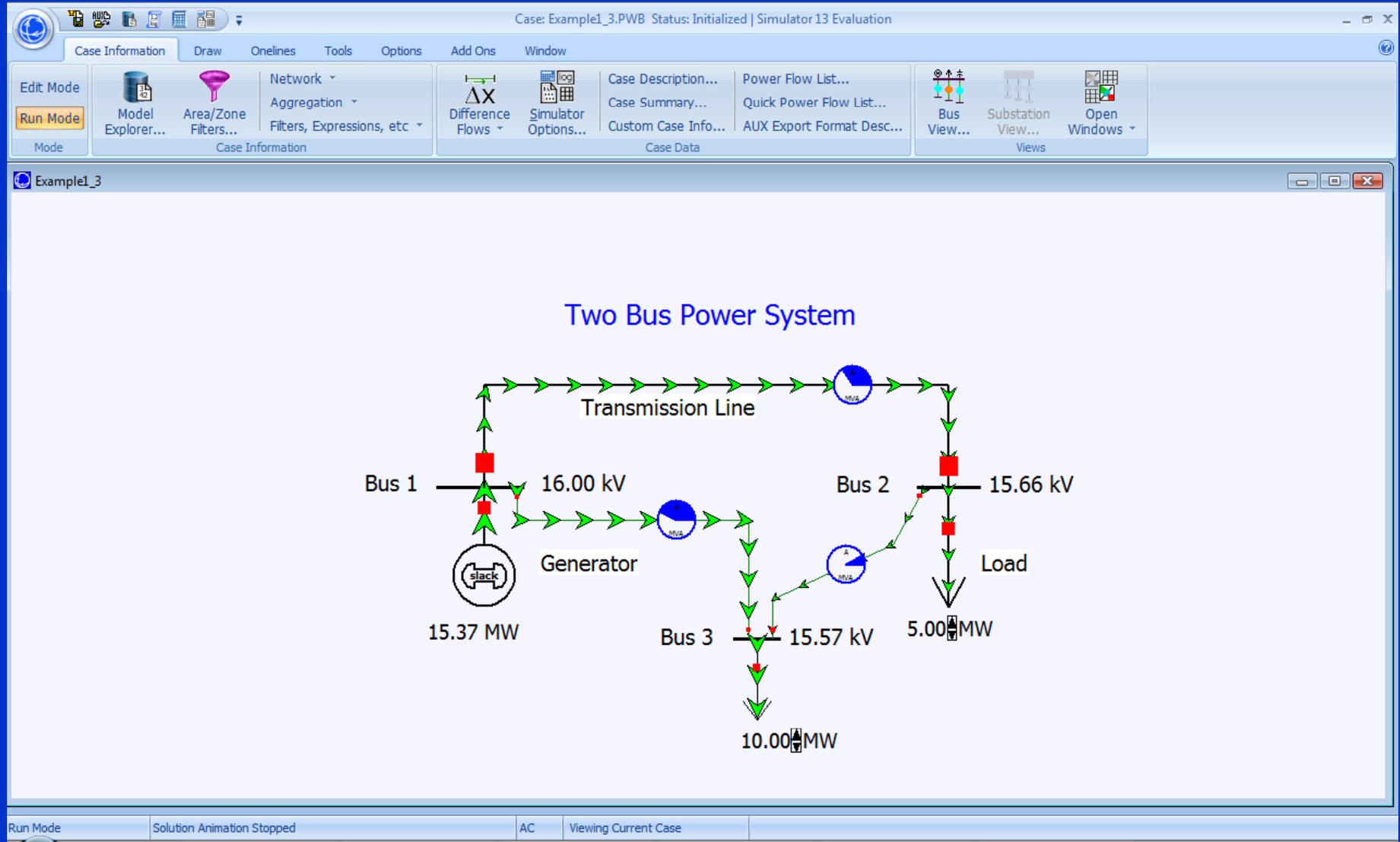
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# Visualization and teaching



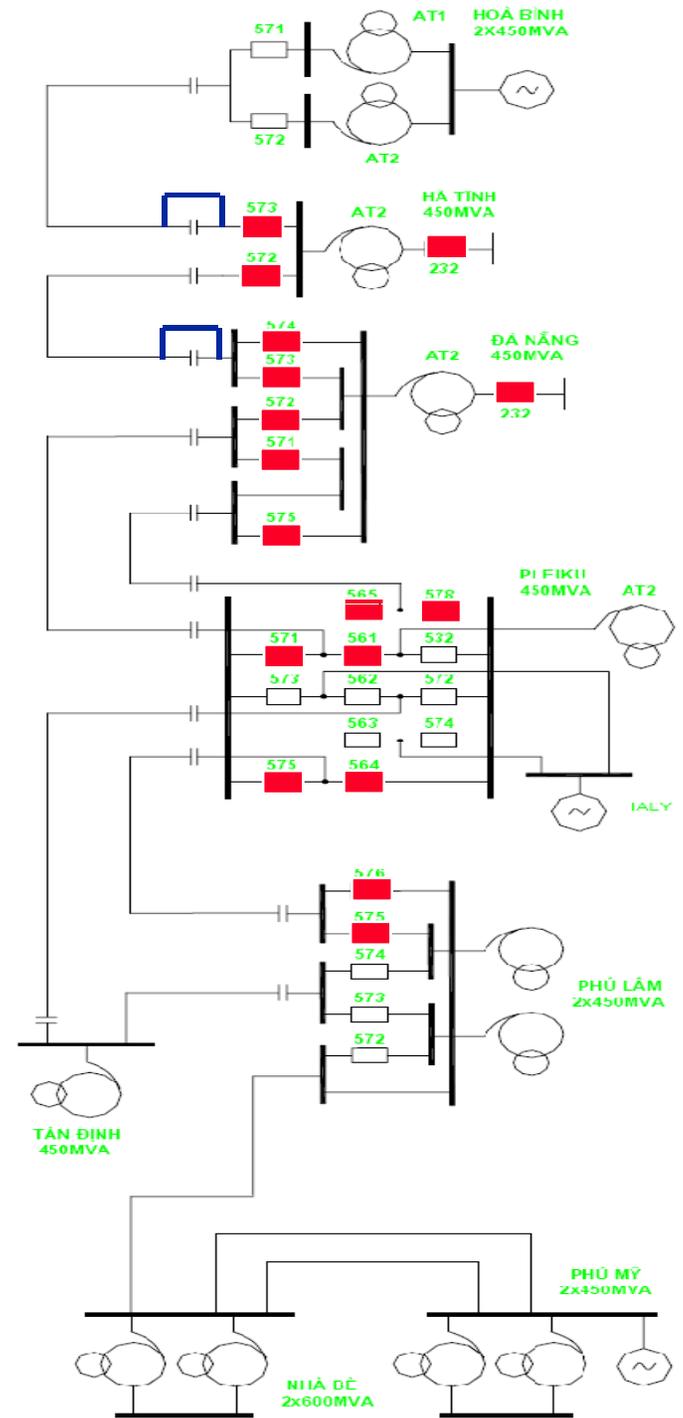
# Integration of practical power system, software and teaching

The screenshot displays the Model Explorer software interface. The title bar indicates the file is 'Week10\_2008\_Max.pwb' and the status is 'Initialized | Simulator13 Educational'. The interface includes a menu bar with options like 'Case Information', 'Draw', 'Onlines', 'Tools', 'Options', 'Add Ons', and 'Window'. Below the menu bar is a toolbar with icons for 'Run Mode', 'Model Explorer...', 'Area/Zone Filters...', 'Aggregation', 'Filters, Expressions, etc.', 'Simulator Options...', 'Case Description...', 'Power Flow List...', 'Case Summary...', 'Quick Power Flow List...', 'Custom Case Info...', 'AUX Export Format Desc...', 'Bus View...', 'Substation View...', and 'Open Windows'. The main window is divided into two panes. The left pane, titled 'Explore', shows a tree view of the power system components, including 'Network', 'Aggregations', 'Solution Details', and 'Case Information and Auxil'. The right pane, titled 'Bus Records (filtered)', displays a table of bus data. The table has columns for 'Number', 'Name', 'Area Name', 'Nom kv', 'PU Volt', 'Volt (kv)', 'Angle (Deg)', 'Load MW', 'Load Mvar', 'Gen MW', 'Gen Mvar', 'Switched Shunts Mvar', 'Act G Shunt MW', and 'Act I n'. The data rows show various bus names and their associated parameters.

Number	Name	Area Name	Nom kv	PU Volt	Volt (kv)	Angle (Deg)	Load MW	Load Mvar	Gen MW	Gen Mvar	Switched Shunts Mvar	Act G Shunt MW	Act I n
1	1450 TH_TIN	500_KV	500.00	0.93987	469.935	-4.79					0.00	0.00	
2	1451 TH_TISTR	500_KV	500.00	1.00517	502.585	-11.04					0.00	0.00	
3	1800 HOABINH	500_KV	500.00	0.94960	474.800	-3.46					0.00	0.00	
4	1801 HOABISTR	500_KV	500.00	1.05618	528.090	-4.14					0.00	0.00	
5	1802 HOABISTR	500_KV	500.00	1.05618	528.090	-4.14					0.00	0.00	
6	1812 HB-NQ	500_KV	500.00	0.94960	474.800	-3.46					0.00	0.00	
7	1813 HB_AT1	500_KV	35.00	1.05618	36.966	-4.14					0.00	0.00	
8	1819 NQ-HT_1	500_KV	500.00	0.94269	471.345	-5.17					0.00	0.00	
9	1823 HB_AT2	500_KV	35.00	1.05618	36.966	-4.14					0.00	0.00	
10	1839 NQ-HT2	500_KV	500.00	0.94569	472.845	-5.46					0.00	0.00	
11	1850 NHO_QUAN	500_KV	500.00	0.94529	472.645	-2.87					0.00	0.00	
12	1851 NHO_QSTR	500_KV	500.00	1.01467	507.335	-9.61					0.00	0.00	
13	1853 NQ_AT1	500_KV	35.00	1.01467	35.513	-9.61					0.00	0.00	
14	2000 HATINH	500_KV	500.00	0.94162	470.810	1.77					0.00	0.00	
15	2012 HT_DN_1	500_KV	500.00	0.94080	470.400	-2.64					0.00	0.00	
16	2013 HT_AT2	500_KV	35.00	0.99880	34.958	-3.58					0.00	0.00	
17	2019 HT_NQ_1	500_KV	500.00	0.92230	461.150	4.01					0.00	0.00	
18	2022 HT_DN_2	500_KV	500.00	0.93999	469.995	-2.59					0.00	0.00	
19	2039 HT_NQ2	500_KV	500.00	0.92175	460.875	4.30					0.00	0.00	
20	3100 DANANG	500_KV	500.00	0.94391	471.955	9.90					0.00	0.00	
21	3101 DANANSTR	500_KV	500.00	1.01311	506.555	5.75					0.00	0.00	
22	3102 DANANSTR	500_KV	500.00	1.01243	506.215	5.66					0.00	0.00	
23	3112 DN_PK_1	500_KV	500.00	0.93600	468.000	5.79					0.00	0.00	
24	3113 DN_AT2	500_KV	35.00	1.01311	35.459	5.75					0.00	0.00	
25	3119 DN_HT_1	500_KV	500.00	0.91449	457.245	14.56					0.00	0.00	
26	3122 DN_PK_2	500_KV	500.00	0.94544	472.720	5.53					0.00	0.00	
27	3123 DN_AT1	500_KV	35.00	1.01243	35.435	5.66					0.00	0.00	
28	3129 DN_HT_2	500_KV	500.00	0.91430	457.150	14.50					0.00	0.00	

The nominal kv voltage specified as part of the input file.

# Explain practical situation for students



# Interaction between Professor and students

- Student group email:  
`class_name@googlegroups.com`
- Professor email.
- Office hour.



# Answer questions of students via emails and telephone

The screenshot shows a Gmail inbox in a Mozilla Firefox browser window. The browser's address bar displays the URL: <https://mail.google.com/mail/?zx=1c0j7ctyavzg0&shva=1#inbox/11db3c8ec361ee5a>. The Gmail interface includes a search bar, navigation links (Gmail, Calendar, Documents, Photos, Reader, Web, more), and a sidebar with folders like Inbox, Starred, Chats, Sent Mail, Drafts, All Mail, Spam (37), and Trash. The main content area shows an email from 'tinh vo to me' with the subject 'Em nho thay giai thich giup voi.' and a document attachment 'Copy of Em chào thầy.doc' (32K). The email body contains a list of questions in Vietnamese:

1. R cũng như X trong cả 2 trường hợp đường dây có tải và không tải được xem như không thay đổi khi tính toán.
2. Khi đang công tác trên đường dây tất nhiên là không nên đặt tiếp địa lưu dòng 2 đầu ở cách nhau quá xa vì sẽ có nguy cơ nguy hiểm cao cho người đang công tác ở đoạn giữa (do sét đánh trực tiếp vào đoạn giữa 2 tiếp địa hoặc do cảm ứng điện từ các đường dây lân cận, đường dây giao chéo, hoặc thậm chí khi sét đánh vào cây ở gần đoạn giữa 2 vị trí tiếp địa rồi từ cây cảm ứng vào đường dây...).

Những vấn đề chi tiết, công thức... liên quan đến kỹ thuật điện cao áp (xung sét...) anh nên hỏi thầy Tiến dạy môn cao áp.

Thầy Việt

The Windows taskbar at the bottom shows the system tray with the time 12:49 PM and several open applications including 'Anh lop c...', '22', '2 Micros...', 'Alumni Co...', '22', 'Case: Wee...', 'Google Talk', and 'Gmail - E...'.

# **Advanced programs at the University of Danang**

- **Electronic and Communication Engineering (ECE) in collaboration with the University of Washington (UW), Seattle.**
- **Embedded system, in collaboration with Portland State University (PSU).**

# Training teachers

- Training teachers who will teach English for students in the field of Electrical Engineering.
- Curriculum for these teachers based on the Electrical Engineers handbook.



## Some more challenge plans

- Collaboration program between some Departments of Electrical Engineering and power companies, power transmission companies and other entrepreneurs (like US model PSERC - Power System Engineering Research Center)

<http://www.pserc.wisc.edu/>

- Project funding requirement

## Some more challenge plans

- Online seminars (between Department of EE, University of Danang and entrepreneurs).
- Online classroom (i.e, between Professors in US, Hanoi or Ho Chi Minh City and students at the University of Danang).
- **Project funding requirement**

## **Some more challenge plans**

- **Change current student field trip into internship by market mechanism.**
- **Entrepreneur has the right to select best students.**
- **Entrepreneur should pay for travel, lodging of students during internship.**
- **US Datalogic corporation at High Tech Park in Ho Chi Minh City.**

**<http://www.datalogic.com/>**

# Problems

- **University server.**
- **Lack of efficient management system (like VEF online management system – OMS or similar system at US universities).**
- **Non-synchronism between different Professors at the same department in common activity.**
- **University salary.**

# Conclusion

- Overview of my activities on VEF Training of Trainers program at the University of Danang from August to December 2008.
- Some intended plans require funding, effort and agreement between different organizations.



A photograph of a large tree in full bloom, with numerous light pink cherry blossoms covering the branches. The tree is set against a clear, bright blue sky. The blossoms are in various stages of opening, creating a dense, textured canopy of soft pink and white. The dark, woody branches of the tree are visible through the flowers.

**Thank you for  
your attention!**