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**BAHASA INGGRIS TEKNIK**  
(The Language of Chemical Engineering in English)

**Lecturer (Class B and E):**  
*Siti Diyar Kholisoh*

 Department of Chemical Engineering  
UPN "Veteran" Yogyakarta  
Wednesday, September 14<sup>th</sup>, 2011 

**Deskripsi Mata Kuliah**

*Bahasa Inggris Teknik* merupakan mata kuliah wajib di dalam Kurikulum Pendidikan Prodi Teknik Kimia FTI UPN "Veteran" Yogyakarta (Semester 3) yang mempelajari tentang **istilah-istilah Teknik Kimia di dalam Bahasa Inggris**.

**General Competence**

Setelah mengikuti mata kuliah ini (pada akhir semester), mahasiswa **mampu menjelaskan** dan sekaligus **mengkomunikasikan istilah-istilah yang berkaitan dengan bidang Teknik Kimia di dalam Bahasa Inggris**.

**Weekly Class Schedule**

Wednesday, 04:50 – 06:30 p.m.  
Class Room: TK II 3– A

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**Breaking time: about 20 minutes (for having "sholat maghrib").**



**Wednesday, 04:50 – 06:50 p.m.**

**Academic Calendar Semester Gasal 2011-2012**

SEPTEMBER 2011							OCTOBER 2011							NOVEMBER 2011						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	2	3	4	5	6	7	1/8	6	7	8	9	10	11	12
4	5	6	7	8	9	10	9	10	11	12	13	14	15	13	14	15	16	17	18	19
11	12	13	14	15	16	17	16	17	18	19	20	21	22	20	21	22	23	24	25	26
18	19	20	21	22	23	24	23	24	25	26	27	28	29	27	28	29	30			
25	26	27	28	29	30		30	31												
DECEMBER 2011							JANUARY 2012							REMARKS:						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	<b>Biru:</b> Jadwal BIT Kelas E						
				1	2	3	1	2	3	4	5	6	7	<b>Hijau:</b> Periode UTS						
4	5	6	7	8	9	10	8	9	10	11	12	13	14	<b>Merah:</b> Periode UAS						
11	12	13	14	15	16	17	15	16	17	18	19	20	21							
18	19	20	21	22	23	24	22	23	24	25	26	27	28							
25	26	27	28	29	30	31	29	30	31											

**Reference**

Roy V. Hughson, 1979, "*English for Careers: The Language of Chemical Engineering in English*", New York: Regents Publishing Company, Inc.

## Contents

1. What Chemical Engineers Do?
2. Research and Development
3. Process Design
4. Plant Operation
5. Controlling the Plant: Instrumentation
6. Fluid Flow
7. Heat Flow (Thermodynamics)
8. Separating by Heating
9. Separating without Heating
10. Challenges Facing Chemical Engineering

+ paper assignment & presentation  
+ quiz after every 2-3 units

## Structure of Each Unit

- ❖ Special Terms
- ❖ Vocabulary Practice
- ❖ Reading (Comprehension)
- ❖ Discussion
- ❖ Review

## Rules & Miscellaneous

- Percentage of students presence in class: **at least ...%** (of 14 class-schedule)
- Components** of final grading: (1) mid-term exam, (2) final-term exam, and (3) assignments
- Assignments:** homework, quiz, paper presentation (*individual – group, take home – in class*), students' activity in class
- Homework → at certain time (period)
- Copy of TOEFL score** → *prerequisite for mid-exam*
- Special/substitute exam?** **None**, except on the conditions according to the rules regulated by UPNVY.

## Rules & Miscellaneous

- Communication language: Bahasa Indonesia or English (**mixture**)
- Sitting-rule** in the class room?
- Please **turn off your phone** or make it silent..
- Students' coordinator of Class E: Yunan Helmi Z./ 121100116**
- Bringing the book & a dictionary**
- Spelling the words
- Knowing the pattern of sentences
- Can distinguish: noun – verb – adjective – adverb, main clause – sub clause, active – passive form, etc.
- Etc.

*"Rasa ingin tahu adalah ibu dari semua ilmu pengetahuan"*

*"Perjalanan seribu mil dimulai dari satu langkah"*



**\*\* Siti Diyar Kholisoh \*\***

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## Homework

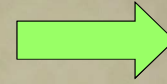
**(Individually – next Wednesday)  
(Writing Assignment)**

Write on a sheet of paper (*at least 1 page*) about:

1. Brief description about you (for example: what's your name, where do you come from (including school background), where do you live in Jogja, what's your hobby, how about your family, what are your personal characteristics, what are your daily activities, etc) → **personal description**

2. What do you know about chemical engineering? How far? Why do you choose this field of study?
3. What do you hope from this subject?  
*Please, don't be just about a grade....*
4. Make a brief description about your long holidays experience a few days ago ("mudik").

Let's go to UNIT ONE!



### What is chemical engineering by definition?

#### Definition found in a standard dictionary:

"A branch of engineering which involves the **design** and **operation** of large scale plants, petrochemical refineries, and the like."

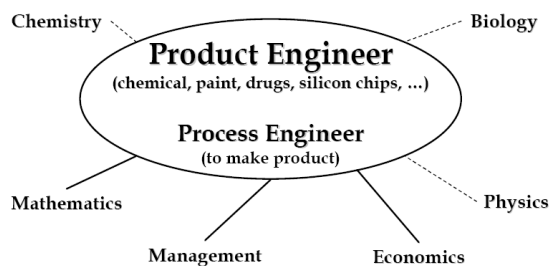
#### Another definition:

"Concerned with **processes** that cause **substances** to undergo **required changes** in their **chemical or physical composition, structure, energy content, or physical state.**"

### Chemical engineers are everywhere

- Oil industry
- Chemical and allied products
- Process plant manufacture and construction
- Pharmaceutical (aspirin, hormones, ..., drug delivery)
- Personal care (cosmetics, moisturizers, ...)
- Household products (washing powder, ...)
- Food and drink
- Materials (silicon chips, porous media, catalysts, ...)
- Consultants
- Academia

### A chemical engineer is more than a chemist



*(Chemical engineering involves bringing together science, mathematics, economics, management, and common sense)*

Prepare yourself for next Wednesday!

UNIT ONE...  
(What Chemical Engineers Do?)