

Assessment Criteria

Feasibility report : 10%

Process flow diagram and equipment selection: 15%

Complete mass and energy balance: 15%

Demonstration of zero emission concepts: 5%

Equipment design: 15%

Process and instrumentation diagram: 15%

Proper definition of basis, criteria and limits of design, and economic performance : 15%

Presentation: 10%

TOTAL 100%

Prizes (With IEM Certificates)

1st Placing: RM3,000

2nd Placing: RM2,000

3rd Placing: RM1,000

Consolation Prize: RM500

Terms & Conditions

The design submitted shall be original and have not been previously submitted or published.

Organizing Committee

Engr. Noor Zuraihan Mohamad Noor (P & G)

Ir. Assoc. Prof. Dr Thomas Choong Shean Yaw (UPM)

Ir. Prof. Dr Dominic Foo Chwan Yee (Nottingham)

Ir. Assoc. Prof. Dr Aziz Abdul Raman (UM)

Ir. Hj Tunai Shamsidi (Minconsult)

Ir. Juares Rizal bin Abdul Hamid (MECIP Global Engineers)

Ir. Mohamad Fadzil bin Adnan @ Nan (Petronas)

Ir. Razmahwata bin Mohamad Razalli (Synergy Oil & Gas Engineering)

Enquiry

Organizing Committee of
Chemical Engineering Design Competition 2012,
Chemical Engineering Technical Division
THE INSTITUTION OF ENGINEERS, MALAYSIA

Bangunan Ingenieur, Lots 60 & 62, Jalan 52/ 4
P.O. Box 223 (Jalan Sultan)
46720 Petaling Jaya, Selangor Darul Ehsan.
Fax No.: 603—7957 7678

Contact Person:

Secretariat (Ms. Kek Mei Tzy)

Tel. No.: 603—7968 4014

Email: meitzy@iem.org.my

Blog: <http://iemcetd.blogspot.com/>



THE INSTITUTION OF ENGINEERS,
MALAYSIA
(I.E.M.)

IEM Chemical Engineering Design Competition 2012

Design of a Biogas Plant —Production & Utilization

Organized by Chemical Engineering
Technical Division (CETD)

Biogas Process



Registration Closing Date

22 June 2012

Registration Fee

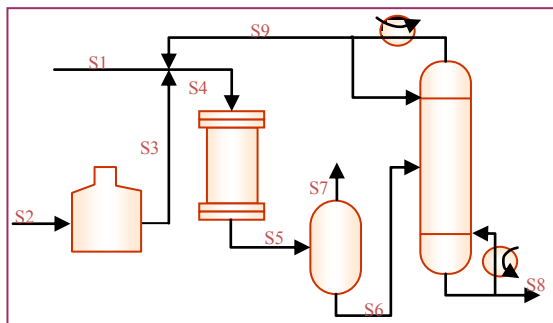
RM200/ team

Background

The design competition is initiated by Chemical Engineering Technical Division (CETD) of the Institution of Engineers, Malaysia (IEM) with the objective of enhancing the design competency practically and methodologically. This competition is open to all chemical engineering students, particularly those in the senior years. It will provide an excellent opportunity for the students to meet and exchange ideas pertaining to the profession with practicing engineers.

Eligibility

- ◇ All active Chemical Engineering Students at Diploma and Degree levels from Public and Private Institutions are eligible to participate in the competition.
- ◇ The participating team may comprise members from the same or different institutions.



Deliverables

A. Progress Report I

- ◇ Feasibility report
- ◇ Process flow diagram and equipment selection
- ◇ Overall mass and energy balances
- ◇ Demonstration of zero emission concept

B. Progress Report II

- ◇ Equipment design
- ◇ Process and instrumentation diagram

C. Final Report

- ◇ Proper definition of basis, criteria and limits of design, and economic performance
- ◇ The final report should be at most 100 pages long (not including appendices)

D. Presentation

Presentation of final design if and upon being shortlisted

Details of deliverables are made available upon registration.

Registration Form

Name of Institution (University/ College) & Address	
Team Leader	
Mobile No.	
Email Add.	
Team Members	1. 2. 3. 4.
Name of Advisor	
Tel. No.	
Email Add.	

Please ✓ (Note: Acceptance of participation is subject to decision by the Organizing Committee)

☐ We enclose herewith a crossed cheque/ bank draft issued to "The Institution of Engineers, Malaysia".

No.: _____

☐ We authorize you to debit my Visa/ Mastercard.

Card No.: _____

Amount: _____ Card Expiry Date: _____

I/ We understand that the fee is not refundable if I/ we withdraw after my/ our application is/ are accepted by the Organizing Committee. However, substitution of participants is allowed. If I/ we failed to attend the competition, I/ we will still settle the registration fee in full. All payment must be received by **22 June 2012**.

- Please email/ fax your registration form to IEM at meitzy@iem.org.my/ 603—7957 7678.

Date: _____ Signature: _____