Intensive training @ Khonkaen University

Topic: Genstat and ASreml workshop

Date: October 11, 2016 **Time:** 8.30 am. - 4 pm.

Place: Faculty of Science, Khonkhen University

Contact person: Assit. Prof. Dr. Preeya Wangsomnuk

Audience from

1. Faculty of Science, Department of Biology

2. Faculty of Agriculture

3. Plant breeding research center for sustainable agriculture

Course Content:

- **Basic Statistics with Genstat® and ASreml®**
  - ○ Summary statistics and graphics
  - ○ One and Two-sample inferences
  - ○ One-way ANOVA
  - ○ Goodness of fit test
  - ○ Regression

- **Advanced statistical designs and analysis with Genstat® and ASreml®**
  - ○ Block experiment w/wo missing data
  - ○ Incomplete block experiment and α-design
  - ○ Mixed Model and BLUP
  - ○ BLUP with pedigree
  - ○ Multivariate BLUP w/wo pedigree
  - ○ Animal Model and EBV

- All topics will be introduced using Case studies

** The special requirement topic could be added later.

Course Structure:

- One-day workshop
  - ○ **First half day**: Introduction and Demo using GenStat and R (including ASReml-R)
  - ○ **Second half day**: Computer practice