

## **Intensive training @ Walailak University**

**Topic:** Genstat workshop

**Date:** January 25, 2017 **Time:** 8.30 am. - 4 pm.

**Place:** Center of Computer Services, Walailak University

**Contact person:** Dr. Chairote Yaiprasert

### **Audience from**

1. School of Agricultural Technology
2. School of Science
3. School of Medicine
4. School of Allied Health Sciences and Public Health

### **Course Content:**

#### **1: Basic Data Analysis and Statistical Tests**

- Data visualization and descriptive statistics
- Commonly used Summary Statistics
- Assumption test (normality, homogeneity)

#### **2: Analysis of Variance**

- T-test (one-and two-sample)
- ANOVA (one-and two-way)

#### **3: Chi-square test**

#### **4: Regression**

- Simple linear regression
- Multiple linear regression

#### **5. REML and multi-level models**

- Linear mixed models

#### **6. Multivariate analysis**

- Principal components analysis

### **Course Structure:**

- One-day workshop: Introduction and Demo and Computer practice