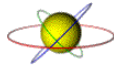# **D**ata Structures and Algorithm

Teacher： **Prof. Ruomei WANG**
王若梅
Assistant: **Mr 杨红杰**
E-mail: **isswrm@mail.sysu.edu.cn**

Important E-mail

Course PPT：
Homework.student@163.com
Password： homework

Assignment ：
homework_sysu@163.com

Course Purposes:

The aims： technologies of abstract, design and implementation in solving problem.

Course Purposes:

Abstract: To analysis the requirement of problem and data's logical structure;

Design: To design the data's physical structure and algorithms, to analysis the algorithm's time complexity;

Implementation: To practice the algorithm in computer language C++.

Lecture Sessions

◆ English teaching materials and slides.

◆ Weekly assignments in thinking /writing.

Laboratory Sessions

◆ Weekly assignments in Laboratory

◆ Self-training in Online system

Course Assessment

Lecture Sessions		
Grading	Weekly Written Assignments	20%
	Midterm Examination(two times)	20%
	Final Examination	60%
	Total	100%
Laboratory Sessions		
Grading	Attendance	20%
	Online Assignments	40%
	Final Examination	40%
	Total	100%

Textbook and References

Mark Allen Weiss, Data structures and algorithm analysis in C++

Yan Weimin, Data structure, Publication of Tsing Hua University

Ellis Horowits, Fundamentals of Data Structures in C++, Tsing Hua University

Assignment Format

1. **Student Number+Name**
2. **E-mail's subject: Student Number+数据结构作业（1）//数字代表周次**
3. **Algorithm analysis and notes**
4. **Main functions, ADT used in algorithm and parameters**