Xi’an Jiaotong University
Big Data Platform for Monitoring Teaching Quality

Xi’an Jiaotong University
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Application of comprehensive evaluation system of undergraduate teaching quality is one of the five key tasks in education and teaching of XJTU.
Persons this big data platform serves

2. Teachers
- Check the evaluation results, suggestions and attendance rate on the mobile phone;
- Find the gap through horizontal and longitudinal comparison;
- Receive education information and class schedule tweets.

4. Leaders of all levels
- Get information about teaching situations, teaching quality quantitative analysis, contrast analysis, trend analysis through statistics and chart analysis;
- Analyze and evaluate teaching quality scientifically and objectively, reward the better, eliminate the unqualified, deal with teaching accidents objectively and impartially.

1. Students
- Online evaluating class-room teaching, and check the results real-time.

3. Inspecting experts
- Collect information on attendance and concentration of every class real-time;
- Apply targeted supervision with collected electronic evidence;
- Help teachers improve their teaching, through video recording and other ways to objectively show the actual status of teachers or a section of the class to realize the accurate positioning and defining problems in teaching quality.
Targeted Findings: where students go and what classes they like

- **Attendance:** Reflect class attendance real time; destination analysis of the absentees.
- **Teacher’s need:** Check student attendance real time.
- **Courses dimension:** Analyze attendance course by course.
- **College dimension:** Analyze student attendance college by college.
- **School order keeping:** Strengthen awareness of order.
Role 1: Find problems of the class in time for targeted supervision

- **Expert evaluation**: Comprehensively evaluate teaching quality
- **Students' evaluation**: Historical comparison of teaching quality
- **Attendance**: Changes of attendance in class
- **Situation in class**: Class playback by videos or photos
Targeted supervision with problems identified

Targeting problems in teaching
- **Expert evaluation**: Analyze the teaching process
- **Students' evaluation**: Analyze the tendency in teaching assessment by students since 2012.
- **Attendance**: Analyze attendance since 2015
- **Class situation**: Playback class by videos or photos

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Role 2: Remind students, instructors, and teachers in time

Remind students, instructors and head teacher of the problems in time by e-mails or other ways

- historic absence record: record student attendance by semester
- historical student course scores: analyze student grades of courses
Role 3: Comprehensively improve teaching management quality

Evaluation results:
- In accordance with data, classify teachers by their grades as excellent, good, medium, poor; and the last 1%;
- Serve as the most important evidence for teaching performance reward.

Positive motivation:
- Identify class and teacher of excellence which can be taken as the training for becoming a distinguished teacher;
- Activities for finding “excellent class” “my favorite teacher”;
- Basis for teacher performance evaluation, and promotion.

Penalty application:
- Teacher evaluated as “medium” or “poor” shall be warned;
- Teacher evaluated as “poor” the first time shall receive training;
- Teacher evaluated as “poor” two times consecutively shall be suspended in teaching until qualified after training;
- Teacher evaluated as “the last 1%” shall be deprived of the right to teach.
Thank You!