“KOSEN”
51 colleges in all over Japan

A project by 7 colleges started in 2012

“Establishing the education for nurturing engineers equipped with literacy in disaster risk reduction to be able to be leaders in times of disasters.

Yu Ishida and Toshikazu Ota
National Institute of Technology, Akashi College, Japan
post-disaster events / earthquakes / tsunami / earthquakes and housing / damage on lifelines and their restoration / Nankai Trough earthquake and tsunami / typhoon, heavy rain and other natural disasters / disaster information / cross-road games / fire / actions for energy problems and global warming / nuclear power and disasters / recovery planning and community rebuilding / whole-community disaster risk reduction planning / map-making for community-dust disaster risk reduction / risk management / Business Continuity Plan / disasters and law / workshops on facing disasters
HOW CAN WE DEVELOP THE COURSE?

Based on “Instructional Design”, we need **plan-do-see** cycle.

We conducted surveys **before** taking the class & **after** to check “prior knowledge”, “understanding”, “adaptation to”, and “mental”

The figure shows our students have different knowledge level **after lower secondary education** (**prior to class**).

Four keywords: “Earthquake disaster band”, “differences causes to be killed among types of disasters”, “conditions of evacuation place”, “an earthquake directly above its focus” (picked up from 135 keywords)