Electrical engineering specialty construction based on “Four-dimensional practical teaching, Multimedia integration, System reconfiguration” multi-innovation methods

With the rapid development and progress of science and technology, engineering education is continuously evolving to meet the new challenges of the emerging technologies and the gradual integration of world economics, the construction of first-class universities and first-class majors and the realization of the higher education connotative development shall be accelerated. In the meantime, new technologies are emerging in the field of electrical engineering, the cross integration of disciplines and specialties is more extensive, and the demand for talents in enterprises become more and more diverse. Therefore, focusing on the goal of National Engineering Education Certification and first-class major construction, electrical engineering major in North China University of Technology formulated three main reform paths which are innovating practical teaching mode, integrating multimedia resources and reconstructing cultivation system. A “Four-dimensional practical teaching, Multimedia integration, System reconfiguration” multi-innovation method is proposed to conduct major construction.