



Competence Building in Higher Education
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Euro-Mongolian Cooperation for Modernisation of Engineering Education
(EUMong)

Thanks to an European project sponsored by EACEA, we have the opportunity to develop open educational resources in industrial automation and we would like to get your feedback as an actor of this environment. It is anonymous targeting your complete honesty. The results will be used for all but scientific purposes. Filling this questionnaire will take you about 10 minutes.

Thank you.

1. Which is your job?

- a) University teacher
- b) Trainer
- c) Engineer
- d) Manager

2. What specialty has your university, school?

- a) Classical university
- b) Polytechnics
- c) College
- d) Professional school
- e) Other (please, specify)

3. What educational level teaches your university, school?

- f) Bachelor
- g) Master
- h) Ph.D
- i) Other (Please specify)

4. Do you use open educational resources (OERs) in your institution?

- a) Yes
- b) No



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5. If not, why?

- a) I am not familiar with OERs /Боловсролын нээлттэй эх сурвалж (БНЭС)-г сайн мэдэхгүй байна/
- b) There is no benefit in my work /Энэ нь миний ажиллах үйл явцад ашиггүй/
- c) They are too complex to use them /Тэдгээрийг ашиглах нь нэлээд төвөгтэй байдаг/
- d) Other (Please specify) /Бусад (Тодорхойлж бичнэ үү)/

6. In case of using OERs, how often do you use them? /БНЭС-г ашиглаж байгаа тохиолдолд тэдгээрийг хэр олон удаа ашигладаг вэ?/

- a) Rarely /Ховорхон/
- b) Occasionally /Заримдаа/
- c) Frequently /Байнга/

7. What advantages do you consider that the use of OERs in practical education has? /БНЭС-г практикт хэрэглэхэд ямар давуу талууд байна гэж та боддог вэ?/

- a) Cost efficiency /зардлын үр ашиг/
- b) Reusability /дахин ашиглах боломж/
- c) Flexibility and adaptability /уян хатан байдал болон зохицох боломж/
- d) Mobility of teachers and students /Багш болон сурагчдын хөдөлгөөнт байдал/
- e) Connectivity of teachers and students /Багш болон сурагчдын хоорондоо холбогдох боломж/

8. For what teaching activities do you consider necessary the use of OERs? /БНЭС-г хэрэглэхэд ямар сурган заах үйл ажиллагаанууд шаардлагатай гэж та боддог вэ?/

- a) Collaborative learning /Хамтарсан сургалт/
- b) Autonomous Learning /Бие даасан сургалт/
- c) E-learning /e-сургалт/
- d) Educational platforms /Боловсролын платформ/
- e) Ubiquitous learning /Хаанаас ч хандаж болох сургалт/
- a) Communities for practical essays or exercises /практик эссе болон дасгалуудад зориулсан харилцан холбоонууд/
- f) Remote laboratories /Зайнаас хандах лабораториуд/
- g) Virtual laboratories /Виртуаль лабораториуд/
- b) Others (please specify) /Бусад (Тодорхойлж бичнэ үү)/



9. What kind of knowledge students of industrial automation may get with the use of OERs?

| | Not at all | Low | Average | High | Very High |
|--|------------|-----|---------|------|-----------|
| Automatic control for industrial process and modelling | | | | | |
| Programmable logic controllers | | | | | |
| Instrumentation, control and automation | | | | | |
| Control and data acquisition system, HMI | | | | | |
| Digital signal processing | | | | | |
| Theory of digital automat | | | | | |
| Research methods for power system | | | | | |
| Industrial motor control | | | | | |
| Computer based control system | | | | | |
| Real time operation system | | | | | |
| Industrial electric supply | | | | | |
| Image processing and its industrial application | | | | | |
| Mechatronic system | | | | | |
| Mechanical and material systems | | | | | |
| Manufacturing and management systems | | | | | |
| Digital electronics design | | | | | |
| Sensor design | | | | | |
| Digital filter design | | | | | |
| Analogy filter design | | | | | |
| Modelling for engineering science | | | | | |
| Advanced process control | | | | | |
| Advanced course of programmable logic controllers | | | | | |
| Advanced course of power electronics | | | | | |
| Industrial robots and manipulators | | | | | |
| Mobile robots | | | | | |
| Engineering practice and key research methods | | | | | |
| Patent study | | | | | |
| Research seminar | | | | | |
| English | | | | | |
| Other (specify, please) | | | | | |
| Other (specify, please) | | | | | |