



Objectively verifiable indicators and means of verification for all project work packages and their deliverables

Work Package /	Description	Verifiable qua	lity indicators	Means of Verification
Deliverable Ref		Qualitative Indicators	Quantitative Indicators	
Project Overall		 Quality of project results Satisfaction of labour market needs Feedback from end-users International cooperation among EU and PC HEIs in education and research Knowledge assessment, employability of graduates Implementation of energy efficiency and climate change mitigation measures 	 Partnership agreements Number of members involved in consortium Number of upgraded study programmes in PC universities 	 Work package progress reports Annual self-evaluation reports Independent evaluation reports Project (interim and closure) reports
WP1	Preparation for project activities	J		
WP1 Overall		•	•	Report on common
1.1	Workshop and focus groups to analyse needs, gaps and possibilities for common curricula development	Feedback from participants at workshop and focus group events	 Number of workshop and focus group events Number of participants at events Time taken to finish the curricula development 	capacity building methodology University registers Accreditation reports Needs analysis reports Project website Meeting minutes Work package progress reports
1.2	Reports and BECK capacity building framework	 Feedback from MQCC Presentation on the appropriate meeting, 	 Number of reports on needs analysis Number of reports submitted on time 	



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		participants' feedback(opinion)	Number of commentsCommon BECK capacity building framework	Annual self-evaluation reportsIndependent evaluation
1.3	Guidelines and accreditation rules for the quality assurance of MOOCs	 Participants' (feedback) opinions Acceptance of the guidelines 	 Number of guidelines and rules developed for the quality assurance of MOOCs 	reports • Project (interim and closure) reports
WP2	Development of New Adaptive MOOC Modules on Consumer's Behaviour Related to Energy Efficiency and Climate Change			
WP2 Overall		•	•	Report for the common
2.1	The framework report for the common curricular	•	 The framework report for the common BECK curriculum produced 	 BECK curriculum Framework report for the common curricular Report on common grounds for teaching and learning Registers of PC universities Partners' websites Meeting minutes Work package progress reports Annual self-evaluation reports Independent evaluation
2.2	The report on common grounds for teaching and learning	•	 The report on common grounds for teaching and learning produced 	
2.3	Training of teaching staff	Participant feedbackDiversity of participants	 Number of teachers trained 	
2.4	Adaptive MOOCs specifications and teaching (learning) materials	•	 Number of MOOCs developed 	
2.5	Assessed, recognised and certificated adaptive MOOCs	 Official recognition of new adaptive MOOC modules and integration 	 Number of upgraded study programmes in PC universities 	



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	integrated to corresponding studies by universities in Russia, Bangladesh and Sri Lanka	into existing BSc/specialists, MSc, PhD study programmes	 Number of recognised and certificated MOOC modules available 	reports • Project (interim and closure) reports
WP3	Development and Exploitation of the Simulated Big Data Interuniversity Networked Affective Educational Centre			
WP3 Overall		•	•	Attendance lists of training
3.1	Simulated Big Data Interuniversity Networked Affective Educational Centre (BECK Centre)	 User friendly BECK centre Level of personalization Level of interest and happiness of users Feedback on using methodology and interface Conformance of BECK centre to labour market needs 	 BECK centre created Number of participating universities / organisations Number of Centre users 	 courses Training certificates Survey of students and teachers - report University registers BECK Centre functionalty testing results Registered users of the Centre University registers,
3.2	Training and lecturing	 Results of evaluations by stakeholders and local experts EU quality standards achieved Feedback of stakeholders 	 Number of courses Number of retrained teachers in PC universities Training certificates issued 	MOOCs available online, reports Meeting minutes Work package progress reports Annual self-evaluation
3.3	Education of students	Student feedbackStudent satisfaction	Number of studentsTypes of students	reports Independent evaluation



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2.4	Feedback and quality	Feedback of stakeholders	 % of students completing courses Number of trained executives working in built-environment organizations Number of trained administrators/specialists working in construction and environment ministries Number of improved 	reports • Project (interim and closure) reports
3.4	improvement of MOOCs	 Benchmarking on improved MOOCs Internal and external evaluations 	MOOCs	
WP4	Quality assurance			
WP4 Overall		 Quality assurance requirements do not impose unreasonable administrative burden on partners Project performance improves as a result of quality assurance activities Achievement of quality objectives 	Monitoring and Quality Control Committee established	 Meeting minutes Quality plan Annual self-evaluation reports Work package progress reports Annual self-evaluation reports Independent evaluation reports



Work Package /	Description	Verifiable quality indicators		Means of Verification
Deliverable Ref		Qualitative Indicators	Quantitative Indicators	
		 Project compliance with quality assurance best practice 		
4.1	Development of quality plan	 All partners participate in the formulation of suitable indicators Quality plan agreed by all partners Quality plan approved by the steering committee Feedback from the independent evaluator Performance indicators developed and agreed by all partners Work package progress reporting template developed 	Quality plan produced	
4.2	Internal monitoring of BECK results	 Self-evaluation exercise takes place at scheduled time Self-evaluation results are used to improve project delivery 	 Number of participants represented in the self- evaluation exercise Number of partner organisations represented in the self- evaluation exercise 	
4.3	External monitoring of BECK results	 Independent evaluators are appropriately qualified 	 Independent evaluator selected Independent evaluation takes place at scheduled time 	



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			 Independent evaluation reports produced on time 	
WP5	Dissemination and exploitation			
WP5 Overall		•	 Number of peer reviewed conference articles Number of international peer reviewed journal articles Number of joint conference and journal articles 	 Dissemination and exploitation plan Work package progress reports Event participation registers Participant evaluations of events Dissemination activities
5.1	Dissemination and exploitation plan	 Consensus in dissemination and exploitation planning Diversity of activities Adequacy of schedule Geographical scope 	 Dissemination and exploitation plan Number of activities Number of stakeholders involved 	report Publications in scientific journals and proceedings Summary books Project website Partners' websites
5.2	Dissemination through branch organizations	 Verification from organisations 	 Number of events Number of participants Number of organisations Local/national radio/TV programs with information on project results 	 Media reports Multilingual e-newsletters Project brochure Summary books Sustainability plan
5.3	Dissemination through websites	UsabilityVisibility	Project website	



Work Package /	Description	Verifiable qua	Verifiable quality indicators	
Deliverable Ref		Qualitative Indicators	Quantitative Indicators	
		Content quality	 Links from partners' websites Number of visits to website Number of multilingual e-newsletters Project informative brochure available (online) 	
5.4	Printed dissemination material	 National and local language content Content quality Compliance with rules 	 Number of types of materials Number of copies distributed Number of project informative brochures (printed) Number of summary books produced 	
	Scientific publications	 number of publications in scientific journals and proceedings 	 level of publications / journals (for examle index in Scopus etc) 	
5.5	Conduction of dissemination events	 Participants' diversity: geographical, cultural, educational, disciplinary Media involvement Public participation 	 Number of international events that are (co)organised by partners Number of participants Number of events 	
5.6	Sustainability plan	•	 Sustainability plan developed 	
WP6	Management			



Work Package /	Description	Verifiable qua	lity indicators	Means of Verification
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WP6 Overall		 Achievement of planned (qualitative) outputs Activity progress (qualitative assessment) Financial management meets European Commission requirements 	 Achievement of planned (quantitative) outputs Activity progress (physical progress) 	 Project (interim and closure) reports Annual self-evaluation reports Independent evaluation reports Work Package progress reports
6.1	A kick-off and coordination meetings	 Feedback from participants Actions arising from previous meeting minutes fulfilled 	 Number of steering committee meetings held Number of meeting attendees 	 Meeting agendas Meeting minutes Participant registers Participant evaluations of meetings
6.2	Official and internal reports on project progress	Feedback from Commission on interim report	 Number of official and internal project progress reports Reports produced on time 	