

Project: ESSENCE: Establishing Smart Energy System Curriculum at Russian and Vietnamese Universities Leading partner: RTU / P1 – responsible person - Anastasija Žiravecka

## Peer-Review for the Courses Quality Evaluation

## Peer-review form

Correspondence to the requirements to peer-reviewer (European and Partner universities):

- 1. Do You have Dr.sc.ing or Candidate of science or equivalent scientific (specify) degree in the field of Power and/or Electrical Engineering and/or ICT field? (yes/no)
- 2. Do You have teaching experience at a university for at least 5 years? (yes/no)
- 3. Do You have scientific publications within last 2 years in the area of expertise? (yes/no)

Correspondence to the requirements to peer-reviewer (Industrial Partners):

- 1. Do You have an engineer qualification or M.Sc. in the field of Power and/or Electrical Engineering and/or ICT field? (yes/no) : Yes
- Is Your working experience in industry of the correspondent profile at least 5 years? (yes/no) : Yes

Is the form of the course descript	on is fully filled in?	Yes	(no)
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Criterion	Aspects	Justification / recommendation of the peer-reviewer	
General	Aims, objectives	1 : The aims and objective stated in the	
0-5	Level of expertise of a	course description are clear, attainable, formulated in an	
	trainer/instructor	understandable way, correspond to the expectations from	
	Background/preliminary	the course.	
	knowledge	2 : The instructors required in the course description	
4	Way of realization	correspond to the area of the course; to the level of the	
		studies (master level). Beside the intructors have real	
		experiments about working substation automation	
		minimum 2 years.	
		3: The content is fine but I want to stress that the learners	
		have to understand about network and protocol	
		IEC61850 in relay systems. Nowday, Relays in the world	
		are using protocol IEC 61850 and IEC61850-9-2 in the	
		smart grid network. The other protocol IEC 103, DNP,	
		MOSBUS are rarely used .	
		4: The way of realization is good . But time in lab practice	
		should be increased to 25 and practical trainning to 20 ( in	

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		part 2, part 3, part 4).	
Content	Course outline	5 : It's good.	
of the	Study materials +	6 : It' ok.	
course	information sources		
0-5	Laboratory works /Practical	7,8 : It's poor. I think the developers have to describe	
3	Classes	detail equiment to be implemented in the lab for example:	
	Equipment required	relays, switchs, routesr, computers, device for relay	
		testing, software Those equiments are very important to learners' practive	
Results	Learnina outcomes	9 : I think it ok.	
of the			
course	CP number	10: The course is created in 6 ECTS. however the time	
0-5		distribution is not very good, the total times are not	
3,5		corresponding to 6 ECTS.	
	Type(s) of control +	11. It's ok. But it should have some testing method for	
	evaluation system	laboratory or practical evaluation	

Interpretation of the scores : 3,5

**Final decision**: The syllabus description addresses the criterion well, but a number of shortcomings are present. I think the developer concentrate on the realities of substation. The developer focus on equiment using for lab , built the exercises on lab about relay testing and relay configuration. However something should be done to improve the quality of the syllabus: the time distribution of each parts, the total credits (6ECTS) are reasonable or not, the detail of "Structure and tasks of independent studies" must be identified clearly. The description of ongoing purchase equipment should be more detailed. The evaluation method for lab work of learners.