Phased formation of subjectivity (agency) as phenomenon of development of consciousness
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Introduction. Problem Statement

The problem of formation of subjectivity becomes particularly relevant in the educational system, as more attention is paid to the development of personal qualities of graduates, responsibility for their actions, social and professional activity, awareness of life position and, in general, the development of subjective position in relation to themselves and the world around them, manifested in metasubject and universal competencies and educational activities

Research Questions

Carrying out of empirical research of the stages of development of subjectivity of University students/ To study the processes occurring at different stages of the formation of subjectivity a pilot study on a sample of engineering students, divided randomly into control (64 people) and experimental (58 people) group was conducted. In the experimental group, classes were conducted by scheme, directed on the development of the stages of the formation of subjectivity in accordance with ecopsychological model. In the control group, training took place in the form of traditional training. For diagnose the stages of formation of subjectivity, the author's method was used

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The content of the diagnosed parameters

№	The stage of development	Title	Description
1.	The subject of motivation	Having a need	As stressed by V. I. Panov, it is a question of" the natural need of the individual in the manifestation of mental activity in one form or another " (Panov, 2014), without which the subsequent stages of subjectivity become unnecessary. This stage was not included in the content of the method of diagnosis of the stages of subjectivity' formation.
2.	the subject of perception of the action-sample	Observer	People at this stage is the method and sequence of steps of the sample mentally. He must consider and understand the action he must do. But he does not always understand why he needs to get acquainted with the new way to solve the task. A person in this position notices that others have not noticed, but prefers to observe what is happening, and not to take an active part (passive contemplation).
3.	the subject of imitation, reproductive reproduction without voluntary regulation	Apprentice	At this stage, a person prefers to perform work on a model, a template, he can mechanically repeat for someone a new method of action. Repeating after someone the way of action off or if he doesn't know the answer, he will check whether he (accurately had copied), or check how it done by others. In the position of “Apprentice” although it means the opportunity to use another method of solution is meant, but with a hint (or on the advice of authoritative colleagues for teachers).
4.	the subject of arbitrary execution of the sample action under external control, for the student more often under by the teacher' voluntary	Learner	A person at this stage doing a new educational task will not be able to check whether it is performed correctly. He admits the possibility of errors, but for learn quickly how to perform a new task (to learn a new action), he needs - someone have pointed to new action. He doesn't initiative of finding errors to verify the correctness of the task, especially new or difficult, one person prefers to resort to the opinion of the teacher or a friend.
5.	the subject of voluntary execution of the sample action under independent, voluntary regulation of the correctness of its implementation	Master	Person at this stage plans his training or production action independently. He made a plan of his actions. When something goes wrong, he analyzies thinks over the reason to avoid it in the future. The success of the implementation of actions is determined by person, first of all, by his own efforts under careful internal control.
6.	the subject of exteriorization of control, subject of expert evaluation of the correctness of the required sample action by other individuals	Expert	At this position, a person has the ability to foresee the assessment of his work (educational, pedagogical), objectively predict the results of their work. As he evaluates the progress of the actions, he sees that the another person makes mistakes corrected. Noticing what others are doing wrong, he points to their mistakes, giving advice to others how to fix them.
7.	the subject of productive development, when the action – pattern has turned from an object of assimilation into a mean of mastering new, more complex actions or for creative self-expression	Creator	A person at this stage formed life goals and work plan to achieve them. He strives to acquire new knowledge, assessing his role in solving other problems, to achieve higher life goals in the future. For such a person, it is important not to stop, for example, to find the best ways to achieve the goal and to feel great satisfaction from it, but to strive to achievement of further success in life, linking much with self-education

Results of the study. Discussion
Results of the Wilcoxon signed-rank test

The stage of formation of subjectivity		Valid	T	Z	p-level
experimental group					
whole sample	Expert	58	448,00	2,70	0,01
	Creator	58	451,00	1,99	0,05
women's sample	Observer	33	141,00	1,88	0,06
	Expert	33	136,00	2,39	0,02
	Creator	33	149,00	1,72	0,09
control group					
whole sample	Learner	64	550,00	2,20	0,03
	Creator	64	626,00	1,95	0,05
male sample	Learner	28	75,00	1,92	0,06
	Creator	28	77,00	2,30	0,02
women's sample	Apprentice	36	141,50	2,09	0,04

In the experimental group as a whole, and in the women's sample in particular, the level in the “Expert” scale increased and decreased in the “Observer” scale, that is, students became more independent in forming and expressing their own opinion. In the female part of the control sample for the semester of training has increased the stage of formation of subjectivity “Apprentice”, that is, students are more in need of mentors (curators).Diagnosed alignment of the homogeneity of control and experimental groups at baseline in the beginning of the semester lower level of the formation stage of the learner and higher level the stage of “Expert” in the control group by the end of the semester, the stage of development the “Learner” has increased. Also in the control group as a whole and in the male sample, the level of the “Creator” subjectivity formation stage decreased. This indicates the contribution to the formation of the stages of subjectivity of students who did not participate in the experiment of other factors of the educational environment of the University, for example, the predominance in the control group of reproductive learning methods, the need for mentoring (supervision). A **regression analysis** was conducted by us: the “Observer” stage in the experimental group as predictors includes the initial value of the “Observer” stage. The “Apprentice” stage already includes two links of relationships: the initial value of this stage before the experiment and the value of the previous “Observer” stage, formed at the end of the experiment. Among the predictors of relationships there are several asymmetric ecopsychological types. Similar conditionality is inherent all stages of the formation of subjectivity as phenomenon of development of consciousness