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«Metrological Support of Innovative Technologies» ICMSIT-2020

«Soft skills in training specialists in the sphere of standardization, metrology and quality management as a part of education for sustainable development»

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Problem statement

- The research is devoted to the role of soft skills in training engineers in the sphere of metrology, standardization and quality management.
- Supra-professional competencies make a specialist more competitive in the labor market and later facilitates labor efficiency and sustainable development of the society as a whole, that is why the system of engineers' education should include mastering time management, team work, and orient students towards developing their ability to handle stress and self-development.

Solution methods

- questioning: the respondents were the students majoring in “Standardization and Metrology” and “Quality Management”, and practitioners in the same sphere, working in industrial companies
- analyzing the normative documents regulating the educational process: the federal state educational standards in the studied Bachelor majors and the curricula of Russian universities

Conclusions

Results, implementation

- The respondents consider most important the skills of records management (72% of the responses), self-education and self-development (68%), ability to work in a team (68%); analytical abilities (76%) and ability to handle stress (76%).
- We also found that the special disciplines forming soft skills are unevenly included into the curricula of universities, while there is a trend to increase the share of special courses training students for non-production activity as the education system is being reformed.

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