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Summary

INNOVATION APPROACHES TO DEVELOPMENT OF EDUCATIONAL PROGRAMMES IN THE FIELD OF ENGINEERING

S.I. Koryagin, K.L. Polupan
Immanuel Kant Baltic Federal University

The article is devoted to the main
conditions of effective development and
design of educational programmes in
the field of engineering.

CONTEMPORARY DISCUSSIONS ON THE CONCEPT OF ELITE ENGINEERING EDUCATION

N.I. Sidnyaev
Bauman Moscow Higher Technical
School

Article is devoted to modernization
of domestic system of engineering
education. According to the innovative
development in higher technical
education there exist contradictory
problems which have been studied.
The role of technical universities in
preparation of professional elite –
scientifically-engineering and state-
administrative is considered. Analysis
of transformation processes in a
domestic education system is presented.
Considerable attention is paid to the
methods of shaping a modern engineer-
ing outlook.

MODEL OF STUDENTS' PRACTICAL TRAINING PROCESSES IN INSTITU- TIONS OF HIGHER PROFESSIONAL EDUCATION

M.A. Tarasova
State University – Education-Science-
Production Complex, Orel

The article deals with the model of
students' practical training processes,
its unit-by-unit description of processes
and relationship between them. It forms
the basis for subsequent development of
a monitoring model.

MULTIMEDIA LECTURES ON DISCIPLINE "MACHINES PARTS"

M.M. Matlin, I.M. Shandybina,
M.V. Topilin, A.N. Goncharenko
Volgograd State Technical University

The method of development and im-
plementation of the multimedia lecture
course on discipline "Machine Parts"
into the learning process is considered
in the article.

SCIENTIFIC KNOWLEDGE CONCEPT- CASE STUDY TECHNOLOGY AND ITS PRACTICAL-ORIENTED APPLICATION

M.N. Prosekova
Tyumen State Oil and Gas University

Shaping the competences of a Mas-
ter-student within the framework of
Federal Education Code new genera-
tion of Higher Professional Education
is implemented through an innovative
methodology, i.e. case study (portfolio).
This methodology is coupled with such
aspects as self-control, cooperativeness
and, especially, teamwork. This article
is a continuation of previously pub-
lished papers [3, 4, 5].

COMPETENCY-BASED APPROACH TO DEVELOPING EDUCATIONAL STAND- ARD FOR MASTER'S PROGRAM "STAND- ARDIZATI AND METROLOGY" AT NORTHERN (ARCTIC) FEDERAL UNIVER- SITY N.A. M.V. LOMONOSOV (NArFU)

T.M. Vladimirova, S.I. Tretyakov
Northern (Arctic) Federal University
named by M.V. Lomonosov (NArFU)

The article presents the experience in
developing educational standard for
master's programs in standardization,
metrology, and certification. Being
developed in line with international
practice, the standard extends the scope
of professional activities, supplements
cultural and professional competences
with regard to ecological, economic
and ethnic peculiarities of the Russian
Arctic zone.