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ABOUT NECESSITY TO LEARN THE ENGINEERING GRAPHIC
FOR THE SPECIALISTS IN TECHNICAL
AND TECHNOLOGY DISTRICTS HUMAN ACTIVITY

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Abstract: the foundation of technical education is the teaching of descriptive geometry and engineering graphic without loss the quality.

Key words: descriptive geometry, engineering graphic, technical education, perfection the methodic of teaching.

For guarantee effective function technical specialists with highest education in contemporaneous conditions highest school must provide not only simply specialists in some tight realm of manufacture and control, but personality, capable to different scopes activity. Future engineer must: have presentation about status and tendencies of progress mechanic constructions, be able evaluate efficiency technical system, capable pass patent search, definite lading individual elements, convey tests and objectivity evaluate results, possess effective methodic of projection.

Capability to definite rational forms of support end recovery efficiency technical end technological engine end equipment, owning knowledge of technical conditions and rudders rational exploitation, definite of causes and consequences rejections of skill forms only with accumulation experiment on base perfect by methods of engineering graphics [1].

The discipline «Engineering graphics» in system technical education enter to range basic generally professional disciplines, in result study student must adopt knowledge of construction drawing, to be able read end compiler graphics and texts construction documentation.

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The denomination of qualification “Engineer” descent from Latin word «ingenium», which means «Capable to invent». Today engineer is the man, which high level of technical education and preparation for carry out any organizing ore creative works for decided proposed problem. Engineer in conformity with fundamental and special preparation must possess suitable competence in next aspects activity: project – construction, science – investigating, organize - controlling, industrial - technology, exploitation and service. These functions must carry out in conditions technical science and manufacture organizations.

All technical drawings must suit to international standards. The drawing, which carry out on all regulations, will be understand to the specialists any country, and for it is necessary to own by engineering graphic, in which needed any district of science, technical and manufacture. Therefore each student in highest technical school must study subject “engineering graphic” on high level for exempt orientation in 2D and 3D projection [2].

Contemporaneous society in own development and economical social work industriously use without alternative today graphics language. For comprehension drawing necessary be able in perfection “read” its. The demands for prepare and read drawings embody in technical regulations [3].

The reading of drawing this is geometry and dimensions. Observance of government standards is necessary to carry out in all districts manufactory, science, highest and middle technical schools and projects establishments. Full information about different manufacture articles, thanks drawing, become all accessible in view files records. And from this point of view the role of drawing in technical progress is eye evidently. With help by engineering graphic generate new creative ideas in suiting with science technical revolution and progress which reorganization material world around us.

Veritable knowledge of engineering graphic on first rate of exchange is deposit of quality continuous learning in course and diploma projection on “Detail of machine”, “Theory mechanisms and machines” and special subjects etc. Special attention student must allot to graphics part of project because in time its safeguard is proclaim engineer status of specialist.

Notwithstanding on fashionable today enthusiasm to 3-D modeling in process manufacture, reading of drawing have conclusive meaning during

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controlling dimensions, problems of assembling bundle and its technological. Ability read drawing is total of learning future specialist in course engineering graphics, which inseparability binding with get profession “Engineer”. Ability read drawing – main aspect in process work designer and technologist - main partners of special precise manufacture with increase demands of nanotechnology.

“Engineer – constructor” constructs technical arrangements with necessary computations with maximum unification, but “Engineer – technology” is superintend executing all processes and dimensions in manufacture of production. The work of constructor immediately depended from work of technology, because dimension during projection fall into technology process, manually principle “cost – quality”. Is necessary conformed unison work of specialist to construct, technology and exploitations.

Systematic results education on discipline “Engineering graphic” are skills, abilities and customs of using scope mentality to formed competence for guarantee to attain quality adoption educational program. Contemporaneous specialist mast owns habits organization technical exploitation technology machines and methodical observance procedure of standardization.

Very important special attention allots to contemporaneous methods projection drawings with appliance computer. For example, 2-D and 3-D graphics system of projection and designing “AutoCAD” have exceedingly interesting option – layers [4].

Work with using layers guaranty carry out compound drawings with superposition objects one on another, control this: conceal, blockade, insert type and color each layer and etc. Function of drawing with layer permit quickly, operatively change dimensions and geometry parameters any part without variation of whole drawing. At necessary to replace some elements sufficiently forms becoming layer [4].

Contemporaneous methods of learn engineering graphic – it is before everything stringent successively from simple to complex, compliance with essential principle of pedagogic science. That is impose elevating demands to competence of professors and teachers in attitude methodic teaching, didactic expedients of learning, degree using of computer and etc. This is particularly essentially in transposition on 4-years period of learning in technical highest school.

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КАЧЕСТВЕННАЯ ПОДГОТОВКА И ПРОВЕДЕНИЕ ЗАНЯТИЙ
ПРЕПОДАВАТЕЛЕМ – УСПЕХ ЗНАНИЙ СТУДЕНТА
HIGH-QUALITY PREPARATION AND CARRYING OUT
OF LESSONS-SUCCESS OF KNOWLEDGE OF THE STUDENT

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Аннотация. В статье рассматривается структура подготовки и проведения занятий, как процесс повышения качества обучения.

Abstract. The article considers the structure of training and conducting classes, as a process of improving the quality of education.

Ключевые слова: методическое обеспечение, преподаватель, занятие.

Key work: methodological support, teacher, lesson.