

TSTU, UZ
DESCRIPTION OF THE PROMENG Curricula/Module
 ОПИСАНИЕ PROMENG учебных программ / модулей

TITLE OF THE MODULE Название модуля	Code
"Mechanical Engineering and equipment (mechanical engineering)", "Automation of technological processes and systems in mechanical engineering" Management quality and competitiveness of products	Specialty 5A320206-process automation and systems engineering

Teacher(s) Учитель (я)	Department отдел
Coordinating: Координационный: Associate Professor, Ph.D. Inagamova D.A. Others: Другое:	"Mechanical Engineering"

Study cycle, Цикл обучения	Level of the module Уровень модуля	Type of the module Тип модуля
Third Semester		Elective

Form of delivery Форма внедрения	Duration Продолжительность	Langage(s) Язык
Lecture and Practice	20 weeks	Uzbek, Russian

Prerequisites Необходимые условия	
Prerequisites: Необходимые условия	Co-requisites (if necessary): Со-реквизиты (при необходимости):

Credits of the module Кредиты модуля	Total student workload Общая учебной нагрузка студентов	Contact hours Контактные часы обучения (аудиторные)	Individual work hours Объем часов индивидуальной (самостоятельной) работы
-	90	60	30

Aim of the module (course unit): competences foreseen by the study programme Цель развития модуля (блок курса): компетенции предусмотренные учебной программой		
In the study the main purpose of discipline is to obtain knowledge, allowing to form the principles of quality management and, consequently, to ensure its competitiveness.		
Learning outcomes of module (course unit) Результаты обучения модуля (блока курса)	Teaching/learning methods Методы преподавания/обучения	Assessment methods Методы оценки
Students will have the skills listed below: - Solving problems of selection, quality assessment of products, - The use of quality standards ISO 9000, - Study and analysis of the structure of the main types of quality management systems during the design, manufacture and operation of machinery products.	Classroom	Rating

Themes	Contact work hours							Time and tasks for individual work	
	Lectures	Consultations	Seminars	Practical work	Laboratory work	Placements	Total contact work	Individual work	Tasks
Темы	Лекции	Консультации	Семинары	Практические работы	Лабораторные работы	Место размещения	Общий объем ауд. работ	Самостоятельная работа	Достижимые цели (задачи)
Introduction. The purpose and objectives of the course "Quality management and competitiveness." Requirements for the quality of engineering products and its competitiveness	2								1. Preparing for lecture classes on the basis of abstract lectures (10 hours) 2. Preparing for topics based on Internet sites (8 hours) 3. Preparation of abstracts on the ELT (12 hours)
Stages of development of quality management systems, their features	2								
General principles of quality management. Basic terms and definitions	2								
Indicators of the quality of products, their types and classification	2								
The complex method of calculation and comprehensive measure of quality	2								
Methods for the determination and calculation of quality indicators	2								
The process and content quality control. Overall relationship management (management) and quality management	2								
The organization of work in the field of quality	2								
The structure of the organization of quality management	2								
Quality loop, the loop Deming	2								
The mechanism of quality control	2								
Modern quality management system	2								
The standardization of the system of quality management and competitiveness. The essence of standardization processes, its basic principles	2								
Basic laws of the standards development process	2								
International Standards for Quality and Competitiveness	2								
Study of the Law of the Republic of Uzbekistan "On Metrology", "on sandartizatsii", "certification"				6					
Statistical methods for determining the percentage of defects in				4					

mechanical engineering								
Analysis of the quality parameters of machine parts using scatter charts			4					
Methods for evaluating the level of product quality			2					
The construction of the control charts product defects by attributes			2					
Prediction and selection of quality by the pie chart in the design of engineering products			4					
Selection criteria for assessing the level of quality of the instrument using the methods qualimetric			4					
Indicators of competitiveness of engineering products			4					
In total	30		30					30

Assessment strategy Оценка стратегии	Weight in % Доля в %	Deadlines Сроки	Assessment criteria Критерии оценки
Current Control I	17	Week 10	Attendance, activity, essays and research papers
Interim Control II	18	Week 10	written Exam
Monitoring II	18	Week 20	Attendance, activity, essays and research papers
Interim Control II	17	Week 20	written Exam
The final control	30	Week 21	written Exam

Author Автор	Year of issue Год выпуска	Title Название	No of periodical or volume Нет издания или нужного количества	Place of printing. Printing house or internet link Место издания. Издание на месте или ссылка на Интернет
Compulsory literature Обязательная литература				
Биктимиров Р.И., Гречишников В.А.	2005	Управление качеством в машиностроении		С.Пб.: Питер,.
Перегудов Л.В.	2002.	Управление качеством и конкурентоспособностью продукции.		Ташкент: Молия,
Additional literature Дополнительная литература				
D. H. Stamatis	2004	Six Sigma Fundamentals		Productivity Press
Клепиков В.В.	2006	Качество изделия		М.: МГПИУ