| Basic data of the subject | | | | | | |
|---|------------------|--|--|--------------------------------------|--|--|
| University | Un | iversity of Appl | ied Sciences in Fe | erizaj | | |
| Academic unit | Fa | culty of Enginee | ering and Informa | atics | | |
| Program | Inc | Industrial Engineering with Informatics | | | | |
| Title of the subject | Me | Measurement and control | | | | |
| Level | Ba | Bachelor | | | | |
| Course Status | Ele | Elective | | | | |
| Year of studies | III | III, Semester V | | | | |
| Number of hours per week | 3 | | | | | |
| Value of Credits - ECTS | 4 | | | | | |
| Time / location | | | | | | |
| Course lecturer | | | | | | |
| Contact details | | | | | | |
| | | | | | | |
| Course Description | Thi me det | is course will in asuring and co ails in engineerin | troduce students ontrolling parame ng. | to equipment for eters of various | | |
| Objectives of the course | The kno me | he aim of this course is to provide students with the nowledge and skills to apply various measurement bethods and measuring instruments. | | | | |
| Expected learning outcomes | Aft be | After successful completion of the course, students will be able to: know the meaning of measurement and control, measurement accuracy and error sources. know the causes of errors and mistakes in the presentation of measurement and correction of the findings of measurement and processing of measurement results. measure and control the fillet, gears parameters, measurement and control shapes and positions of the material surfaces. measure the angle with the help of spectrometer with collimator and know the features and controls of the geometric parameters of coordinates measuring machines, etc. | | | | |
| Contribution to the student load (x | which y | must correspond | d with learning or | utcomes) | | |
| Contribution to the student load (which must correspond with learning outcomes) | | | | | | |
| Teaching (Lectures and exercises) | | 3 | 15 | | | |
| Practical work | | 5 | 15 | | | |
| Contacts with the | | 1 | Δ | Λ | | |
| tonders will the | | 1 | | 4 | | |
| reacher/consultations | | | | | | |
| Field exercises | | | | | | |

SYLLABUS

| Midterm, seminars and projects. | | 2 | 7 | 14 | |
|--|--|--|----|------------|--|
| Homework | | | | | |
| Self-learning time student (at the | | 3 | 10 | 30 | |
| library or at home) | | | | | |
| Final preparation for the exam | | 2 | 4 | 8 | |
| Time spent on evaluation (tests, quiz and final exam) | | 1 | 2 | 2 | |
| Projects, presentations, etc | | 0.5 | 2 | 1 | |
| Total | | | | 104 hours | |
| | | | | | |
| Teaching methodology | Thi med det inte disi pra Un ind | This course will introduce students to the equipment for measuring and controlling the parameters of various details in engineering. Leksione dhe ushtrime interaktive të kombinuara me raste studimore dhe diskutime në klasë, vizita studimore dhe ushtrime praktike që do të organizohen në laboratorët e Universitetit tonë, institutet, fabrikat dhe ndërmarrjet industriale që ofrojnë këto kushte. | | | |
| Prerequisites | The and stue and | nere are no prerequisites to start learning Hydraulics and Thermodynamics. However, it is recommended that adents have basic knowledge of Mathematics, Physics and the Windows operating system. | | | |
| Assessment methods | During the semester, homework is distributed, colloquiums, seminars, statements are organized where students give their contribution individually and in groups. The student passes the exam if you collect 51 points from all assessment criteria, such as:• first assessment:40%• second assessment:40%• project:20% | | | | |
| Or | | Or through final exam | | | |
| | | project:Final exam. | : | 20% 80% | |
| | | Totali: | | 100% | |
| Rat | | Rating: | | | |
| | 91-100 points – graded 10 (ten); 81-90 points – graded 9 (nine); 71-80 points – grade 8 (eight); 61-70 points – graded 7 (seven); 51-60 points - grade 6 (six); 0-50 points – The student repeats the exam. | | | | |
| The ratio of theory and practice | 50% Ass con | 1% Theory, 50% practical teaching with case studies. ssessment seminar where students give their ntribution as individuals and in groups, study visit. | | | |

| Literature | |
|----------------------------|--|
| Basic Literature | 1. Dr. Avdyl Bunjaku: "TEKNIKAT MATËSE", |
| | ligjërata të autorizuara, Prishtinë, 2004 |
| Additional Literature | 1. Proizvodno – tehničko obrazovanje |
| | "MERENJE I KONTROLA U MAŠINSTVU" |
| | priručnjk za organizovanu nastavu u samostalno |
| | učenje |
| | 2. Mr. sc. Sreqko Nikoliq |
| | "KONIROOLLI IEKNIK I PRODHIMII" |
| | Dr. K. Koljozov: MERENJE I KONTKOLA, Skopje, |
| | 1900. A Dr. I. Stankov: MERENIE II PROIZVODNII Novi |
| | 4. Dr. J. Slankov. MERENJE O I KOIZVODINJI, NOVI Sad 1084 |
| | 5 T Pfeifer: PRODUCTION MFTROLOGY |
| | Oldenhourg 2002 |
| Designed learning plan | 0 menbourg, 2002. |
| Wook | Lactures and exercises to be held |
| Week one | Introduction Measurement and control accuracy of |
| Week one | manufaction. Measurement and control accuracy of magsurements and sources of |
| | arrors |
| Week two | Conoral knowledge and sharing of matrology: Magsuring |
| Week two | General knowledge and sharing of metrology, medsuring |
| | instruments and measuring methods, Separation of |
| Waah three | measuring methods and measuring instruments; |
| | Metrological characteristics of instruments; |
| Week four | Converters; Measuring equipment; Measuring systems; |
| Week five | Errors and causes of measurement errors; Measurement |
| | errors and correction of measurement results; Processing of |
| | measurement results; |
| Week six | Processing of measurement results; First assessment |
| Week seven | Meters and measuring instruments for measuring length; |
| Week eight | <i>Types of measuring instruments for measuring lengths and</i> |
| | methods of measuring with measuring instruments; |
| Week nine | Study visit. Factory of Tools + Electrical Devices |
| Week ten | Separation of length meters under construction |
| | characteristics and use; |
| Week eleven | Measuring machines; Fillet measurement and control; |
| Week twelve | Measurement and control of dental parameters; Methods |
| | for measuring and controlling the shape and position of the |
| | details of the work surfaces; |
| Week thirteen | Measurement and control of surface roughness and |
| | flatness; Methods for measuring and controlling surface |
| | roughness and flattening |
| Week fourteen | Measuring angles and slope; trigonometric methods of |
| | angle measurement; Levelers (Booklets); Angle |
| | measurement with collimator spectrometer; |
| Week fifteen | Characteristics and controls of the geometric parameters |
| | of the measuring coordinate machines; Second assessment |
| Academic policies and rule | s of conduct |
| _ | |

Studenti është i detyruar të ndjekë rregullisht ligjëratat dhe të ketë sjellje korrekte ndaj kolegëve dhe stafit të Universitetit, ruajtja e qetësisë dhe angazhimi në mënyrë interaktive gjatë ligjëratave dhe ushtrimeve është i detyrueshëm.