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|  | | | | | | | **ECTS Course Description Form** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PART I ( Senate Approval)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Offering School** | **Engineering** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Offering Department** | **Electrical and Electronics Engineering** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Program(s) Offered to** | **Electrical and Electronics Engineering** | | | | | | | | | | | | | | | | **Compulsory** | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |
| **Course Code** | **EE 291** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Course Name** | **Summer Training 1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Language of Instruction** | **English** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Type of Course** | *Course* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Level of Course** | **Undergraduate** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Hours per Week** | **Lecture:** | | | | | | | **Laboratory:** | | | | **Recitation:** | | **Practical: 2** | | | | | | | **Studio:** | | | | | | | **Other:** | | | | | | | |
| **ECTS Credit** | **2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Grading Mode** | **Letter Grade** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Pre-requisites** | *-* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Co-requisites** | **-** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Registration Restriction** | *-* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Educational Objective** | This course aims to equip students with the fundamental tools and techniques to put theory into practice. Students will learn to analytical thinking skills various engineering applications, and develop skills. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Course description** | Completion of the project given by the summer training place | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Learning Outcomes** | **LO1** | | | | | *Become skillful at learning within department* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **LO2** | | | | | *Put theory into practice* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **LO3** | | | | | *Learn to analytical thinking skills* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **LO4** | | | | | *Learn manual skills* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **LO5** | | | | | *Analyze the engineering problems encountered and interpret the resulting outputs* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **LO6** | | | | | *Ability to work individually.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PART II ( Faculty Board Approval)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Basic Outcomes (University-wide)** | | **No.** | | **Program Outcomes** | | | | | | | | | | | **LO1** | | | | **LO2** | | | | **LO3** | | | **LO4** | | | | | **LO5** | | | **LO6** | |
| **PO1** | | **Ability** to communicate effectively and write and present a report in Turkish and English. | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO2** | | **Ability** to work individually, and in intra-disciplinary and multi-disciplinary teams. | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO3** | | **Recognition** of the need for life-long learning and **ability** to access information , follow developments in science and technology, and continually reinvent oneself. | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO4** | | **Knowledge** of project management, risk management, innovation and change management, entrepreneurship, and sustainable development. | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO5** | | **Awareness** of sectors and **ability** to prepare a business plan. | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO6** | | **Understanding** of professional and ethical responsibility and **demonstrating** ethical behavior. | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **Faculty Specific Outcomes** | | **PO7** | | **Ability to develop, select and use modern techniques and tools necessary for engineering applications and ability to use information technologies effectively.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO8** | | **Recognition of the effects of engineering applications on health, environment and safety in the universal and societal dimensions and the problems of the time and awareness of the legal consequences of engineering solutions.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO9** | | **Ability to identify, define, formulate and solve complex engineering problems; and electing and applying appropriate analysis and modelling methods for this purpose.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **Discipline Specific Outcomes (program)** | | **PO10** | | **Gains comprehensive knowledge in mathematics, natural sciences, related engineering fields and general engineering subjects.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO11** | | **Able to identify complex engineering problems and solve them with appropriate methods of analysis.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO12** | | **Able to design a complex electronic system that meets the desired performance by using modern design techniques and taking real life conditions into account.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO13** | | **Able to develop new techniques and tools for solution of current engineering problems.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO14** | | **Able to use computer software and hardware technologies together with information technologies in an effective way.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO15** | | **Able to produce innovative solutions for solution of current engineering problems by gathering data through experiment design and interpretation of results.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO16** | | **Able to actively work individually or in teams where engineers from the same or different disciplines are involved.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO17** | | **Gains competency in effective written and verbal communication, presentation and preparation of technical reports in Turkish and English.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO18** | | **Constantly increases knowledge with the awareness of lifelong learning by closely following the developments in science and technology .** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO19** | | **Acts in accordance with scientific and ethical principles and the standards used in engineering practice at every stage of career** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO20** | | **Able to describe concepts related to business life such as project management, risk management, change management, entrepreneurship and sustainability.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO21** | | **Gains awareness of the legal consequences of engineering solutions developed together with the effect of engineering applications on health, environment and safety on a universal and social scale.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO22** | | **Able to solve problems involving probability and statistics, derivative and integral calculations, multivariable mathematics, linear algebra, differential equations, and complex variables, and their electrical and electronics applications.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO23** | | **Able to organize projects and events for the social environment they live in with the awareness of social responsibility and implement them.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
| **PO24** | | **Able to plan and direct activities for employees under their responsibility to develop within the framework of a project.** | | | | | | | | | | | 🗸 | | | 🗸 | | | | 🗸 | | | 🗸 | | | | | 🗸 | | | 🗸 | | |
|  | |  | |  | | | | | | | | | | |  | | |  | | | |  | | |  | | | | |  | | |  | | |
| **PART III ( Department Board Approval)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Course Subjects, Contribution of Course Subjects to Learning Outcomes, and Methods for Assessing Learning of Course Subjects** | | | **Subjects** | | **Week** | | | |  | | | | | | | **LO1** | | | | **LO2** | | | | **LO3** | | | **LO4** | | | | | **LO5** | | | **LO6** | |
| **S1** | |  | | | | Write a report for summer training | | | | | | | *A5* | | | | *A5* | | | | *A5* | | | *A5* | | | | | *A5* | | | *A5* | |
| **Assessment Methods, Weight in Course Grade, Implementation and Make-Up Rules** | | | **No.** | | **Type** | | | | | | **Weight** | | **Implementation Rule** | | | | | | | **Make-Up Rule** | | | | | | | | | | | | | | | | |
| **A1** | | **Exam** | | | | | |  | |  | | | | | | |  | | | | | | | | | | | | | | | | |
| **A2** | | **Quiz** | | | | | |  | |  | | | | | | |  | | | | | | | | | | | | | | | | |
| **A3** | | **Homework** | | | | | |  | |  | | | | | | |  | | | | | | | | | | | | | | | | |
| **A4** | | **Project** | | | | | |  | |  | | | | | | |  | | | | | | | | | | | | | | | | |
| **A5** | | **Report** | | | | | | *%100* | | The tasks and projects given by the summer training place are made by the students. The report is delivered after the summer training | | | | | | | - | | | | | | | | | | | | | | | | |
| **A6** | | **Presentation** | | | | | |  | | - | | | | | | | - | | | | | | | | | | | | | | | | |
| **A7** | | **Attendance/ Interaction** | | | | | |  | | - | | | | | | | - | | | | | | | | | | | | | | | | |
| **A8** | | **Class/Lab./**  **Field Work** | | | | | |  | |  | | | | | | |  | | | | | | | | | | | | | | | | |
| **A9** | | **Other** | | | | | |  | |  | | | | | | |  | | | | | | | | | | | | | | | | |
| **TOTAL** | | | | | | | | **100%** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Evidence of Achievement of Learning Outcomes** | | | Students report the required project until the end of summer training. This report is delivered after the summer training | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Method for Determining Letter Grade** | | | The score of 1 report is used to calculate the final score. Maximum scores from each contributor is shown below.   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Assesment | Exam 1 | Exam 2 | Final | Lab | Report | Total | | Point | - | - | - | - | 100 | 100 |   The table below is used to conver the total point over 100 to letter grade:   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Point | 100-75 | 74-70 | 69-65 | 64-60 | 59-55 | 54-50 | 49-45 | 44-40 | 39-35 | 34-30 | | Grade | A | A- | B+ | B | B- | C+ | C | C- | D+ | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Teaching Methods, Student Work Load** | | | **No** | | **Method** | | | | | **Explanation** | | | | | | | | | | | | | | | | | | | **Hours** | | | | | | | |
| ***Time applied by instructor*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **1** | | **Lecture** | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| **2** | | **Interactive Lecture** | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| **3** | | **Recitation** | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| **4** | | **Laboratory** | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| **5** | | **Practical** | | | | | Practical from the department content are performed | | | | | | | | | | | | | | | | | | | *2x30* | | | | | | | |
| **6** | | **Field Work** | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| ***Time expected to be allocated by student*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **7** | | **Project** | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| **8** | | **Homework** | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| **9** | | **Pre-class Learning of Course Material** | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| **10** | | **Review of Course Material** | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| **11** | | **Studio** | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| **12** | | **Office Hour** | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| **TOTAL** | | | | | | | *60* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **IV. PART** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Instructor** | | | **Name** | | | | | | | Mustafa İlker Beyaz | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **E-mail** | | | | | | | mibeyaz@antalya.edu.tr | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Phone Number** | | | | | | | 0242 245 0367 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Office Number** | | | | | | | 0242 245 0367 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Office Hours** | | | | | | | *Determined during each semester, 2 hours per week* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Course Materials** | | | **Mandatory** | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Recommended** | | | | | | | *“Fundamentals of Electric Circuits”, 5th edition, Ocak 2012, Charles Alexander, Matthew Sadiku, McGraw Hill* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Other** | | | **Scholastic Honesty** | | | | | | | Violations of scholastic honesty include, but are not limited to cheating, plagiarizing, fabricating information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Any for of scholastic dishonesty is a serious academic violation and will result in a disciplinary action. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Students with disabilities** | | | | | | | Reasonable accommodations will be made for students with verifiable disabilities. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Safety Issues** | | | | | | | The course does not require any special safety precautions. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Flexibility** | | | | | | | Circumstances may arise during the course that prevents the instructor from fulfilling each and every component of this syllabus; therefore, the syllabus is subject to change.  Students will be notified prior to any changes. | | | | | | | | | | | | | | | | | | | | | | | | | | |