**BMED4920 SUMMER PRACTICE-II  
COURSE CATALOG INFO**

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| **Course Code :**BMED4920 | | | | | **Course Name :**Summer Practice-II | | | |
| **Semester** | | **Lecture + Laboratory + PS** | **Local Credit** | **ECTS** | **Language** | **Category** | **Instructional Methods** | **Prerequisites** |
|  | | (0+0+0) | 0 | 3 | English | Core | Course |  |
| **Course Content** | | | | Minimum 20 working days of summer practice on the biomedical systems and applications at an health institution or industrial corporation related with the biomedical engineering. Delivering a report on the accumulated knowledge. | | | | |
| **Course Outcomes** | | | | **CO 1.** Gain knowledge about business life practices.  **CO 2.** Gain awareness about all aspects of engineering applications.  **CO 3.** Gain consciousness about professional and ethical responsibility.  **CO 4.** Gain knowledge on standards used in engineering practice.  **CO 5.** Gain experience on following instructions, gathering information and writing reports. | | | | |
|  | **Program Outcomes** | | | | | | | |
| **PO1** | Adequate knowledge in fundamentals of mathematics (algebra, differential equations, integrals, probability etc), science (physics, chemistry, biology etc.), health science (anatomy and physiology) and computer science (programming and simulation); ability to use theoretical and applied knowledge in these areas in complex engineering problems. | | | | | | | |
| **PO2** | Ability to identify, define, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose. | | | | | | | |
| **PO3** | Ability to design and integrate components of a complex system or process, as they relate to Biomedical Engineering discipline, under realistic constraints and conditions, in such a way as to meet desired requirements; ability to apply modern design methods. | | | | | | | |
| **PO4** | Ability to devise, select, and use techniques and tools needed for analyzing and solving complex problems encountered in engineering practice; ability to employ information technologies effectively. | | | | | | | |
| **PO5** | Ability to design and conduct experiments, gather, analyze and interpret data. | | | | | | | |
| **PO6** | Ability to work in intra-disciplinary and multi-disciplinary teams; ability to take individual responsibilities. | | | | | | | |
| **PO7** | Ability to effectively communicate in Turkish, ability to express his/her knowledge, ideas and work in English via oral, written and visual means; ability to write effective reports and comprehend written reports; ability to give and follow instructions. | | | | | | | |
| **PO8** | Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself | | | | | | | |
| **PO9** | Consciousness to behave according to ethical principles, and about professional and ethical responsibility; knowledge on standards used in engineering practice. | | | | | | | |
| **PO10** | Knowledge about business life practices such as project management, risk management, and change management; awareness in entrepreneurship, innovation; knowledge about sustainable development. | | | | | | | |
| **PO11** | Knowledge about the global and social effects of engineering practices on health, environment, and safety, and contemporary issues of the century reflected into the field of engineering; awareness of the legal consequences of engineering solutions. | | | | | | | |

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| **CONTRIBUTION OF COURSE OUTCOMES ON BIOMEDICAL ENGINEERING PROGRAM OUTCOMES** | | | | | |
| **Course\Program** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| **PO1** |  |  |  |  |  |
| **PO2** |  |  |  |  |  |
| **PO3** |  |  |  |  |  |
| **PO4** |  |  |  |  |  |
| **PO5** |  |  |  |  |  |
| **PO6** |  |  |  |  |  |
| **PO7** |  |  |  |  |  |
| **PO8** |  |  |  |  |  |
| **PO9** |  |  |  |  |  |
| **PO10** |  |  |  |  |  |
| **PO11** |  |  |  |  |  |

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| **COURSE ASSESMENT AND ECTS WORK LOAD** | | | |
| **Type of Work** | **Count** | **ECTS WORK LOAD** | |
| **Time (Hour)(Including prep. time)** | **Work Load** |
| Attendance |  |  | 0 |
| Final Exam |  |  | 0 |
| Quizzes |  |  | 0 |
| Term project |  |  | 0 |
| Reports |  |  | 0 |
| Final Project |  |  | 0 |
| Seminar |  |  | 0 |
| Assignments |  |  | 0 |
| Presentation |  |  | 0 |
| Midterms |  |  | 0 |
| Project |  |  | 0 |
| Laboratory |  |  | 0 |
| Tutorial |  |  | 0 |
| Other(Self study) |  |  | 0 |
|  | | **Total work load** | 0 |
|  | | **Total work load/25** | 0 |
|  | | **ECTS Credit** |  |