

| <b>PO</b> | <b>Programme Outcomes of Software Engineering (in English)</b>   | <b>Match with TYYÇ</b> | <b>Match with TAY</b> |
|-----------|--|------------------------|-----------------------|
| <b>1</b>  | Adequate knowledge accumulation in mathematics, science and software engineering specific issues; the theoretical and practical knowledge in these areas, the ability to use in complex engineering problems.  | 1,2,7                  | 1,2,3,11,17           |
| <b>2</b>  | Ability to identify, formulate, and solve complex engineering problems; ability to select and apply appropriate analysis and modeling methods for this purpose.  | 2,3,7,11               | 4,5,6,8,9,13,14,19    |
| <b>3</b>  | Ability to design a complex system, process, device or product to meet specific requirements under realistic constraints and conditions; ability to apply modern design methods for this purpose.              |                        | 3,4,8,9,12,13,19      |
| <b>4</b>  | Ability to develop, select and use modern techniques and tools for the analysis and solution of complex problems encountered in engineering applications; ability to use information technologies effectively. | 14                     | 4,5,6,13,14,22        |
| <b>5</b>  | An ability to design, conduct experiments, collect data, analyze and interpret results for the study of complex engineering problems or research-specific research topics.                                     |                        | 4,5,13,14,18          |

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| 6  | Ability to work effectively in disciplinary and multi-disciplinary teams; individual study skills.  |                | 3,4,5,12,13,14  |
| 7  | Ability to communicate effectively in verbal and written Turkish; at least one foreign language knowledge, at least at the European Language Portfolio B1 Level; writing active reports and writing reports, preparing design and production reports, making effective presentations, giving and receiving clear and understandable instructions. | 1,8,9          | 8,9,10,16,20,23 |
| 8  | Awareness of the necessity of lifelong learning; ability to access information, to follow developments in science and technology and to renew himself continuously.   | 3              | 2,8,9,10,11     |
| 9  | To act in accordance with ethical principles, professional and ethical responsibility; Information on the standards used in engineering applications.   | 4,5,6,10,11,13 | 7,15,17         |
| 10 | Information on business practices such as project management, risk management and change management; awareness of entrepreneurship and innovation; information about sustainable development.   | 6,12,15,16     | 21,22           |
| 11 | Knowledge of the effects of engineering practices on health, environment and safety in the universal and social dimensions and the  | 10,11,13       | 5,12,13,14      |

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|  | problems of the era in engineering; awareness of the legal consequences of engineering solutions. |  |  |
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