

| RELATIONSHIP BETWEEN COURSES AND SUB-COMPONENTS OF EDUCATIONAL OBJECTIVES (EO) |  |   |   |      |   |       |       |       |       |       |       |       |       |       |  |
|--|--|---|---|------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 1ST YEAR - 1ST SEMESTER  |  |   |   |      | UNDERGRADUATE EDUCATIONAL OBJECTIVES (EO) |       |       |       |       |       |       |       |       |       |  |
| COURSE CODE  | COURSE NAME  | T | P | ECTS | EO 1                                      |       |       | EO 2  |       | EO 3  |       |       | EO 4  |       |  |
|  |  |   |   |      | EO1.1                                     | EO1.2 | EO1.3 | EO2.1 | EO2.2 | EO3.1 | EO3.2 | EO3.3 | EO4.1 | EO4.2 |  |
| INS1001  | MATHEMATICS I                                      | 4 | 2 | 6    | X   | X     | X     |       |       | X     | X     |       | X     | X     |  |
| INS1003  | PHYSICS I  | 3 | 1 | 5    | X   | X     | X     |       |       | X     | X     |       | X     | X     |  |
| INS1005  | GENERAL CHEMISTRY                                  | 2 | 1 | 3    | X   | X     | X     |       |       | X     | X     |       | X     | X     |  |
| INS1007  | LINEAR ALGEBRA                                     | 3 | 0 | 3    | X   | X     | X     |       |       | X     | X     |       | X     | X     |  |
| INS1009  | INTRODUCTION TO CIVIL ENGINEERING                  | 2 | 0 | 2    | X   | X     | X     | X     | X     | X     | X     | X     | X     | X     |  |
| INS1011  | SAFETY AND HEALTH AT WORK I                        | 2 | 0 | 2    | X   | X     | X     | X     | X     | X     | X     | X     | X     | X     |  |
| TDL1011  | TURKISH LANGUAGE I                                 | 2 | 0 | 2    | X   | X     | X     | X     | X     |       |       | X     | X     | X     |  |
| YDL1013  | FOREIGN LANGUAGE I                                 | 3 | 0 | 2    |   |       |       |       | X     |       |       | X     | X     |       |  |
| ATA1015  | ATATURK PRINCIPLES AND THE HISTORY OF REVOLUTION I | 2 | 0 | 2    | X   | X     | X     | X     | X     | X     | X     | X     | X     | X     |  |
| INS1021  | BASIC COMPUTER                                     | 2 | 2 | 3    | X   | X     | X     | X     | X     |       |       | X     | X     | X     |  |

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|---------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INS2042 | ART HISTORY                       | 2 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS2044 | TRADITIONAL TURKISH HANDICRAFTS   | 2 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS2052 | INTRODUCTION TO SOCIOLOGY         | 2 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS2058 | HISTORY OF SCIENCE AND PHILOSOPHY | 2 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS2062 | URBANIZATION PROBLEMS             | 2 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS2068 | DEMOCRACY AND HUMAN RIGHTS        | 2 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS2074 | GERMAN                            | 2 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS2076 | COMMUNICATION                     | 2 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS2078 | CHINESE                           | 2 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS2080 | RUSSIAN                           | 2 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS2082 | KAZAKH                            | 2 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS2084 | ENTREPRENEURSHIP                  | 4 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |

| 3RD YEAR - 5TH SEMESTER TECHNICAL ELECTIVE COURSES |   |   |   |      | UNDERGRADUATE EDUCATIONAL OBJECTIVES (EO) |       |       |       |       |       |       |       |       |       |
|--|---|---|---|------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| COURSE CODE  | COURSE NAME                             | T | P | ECTS | EO 1                                      |       |       | EO 2  |       | EO 3  |       |       | EO 4  |       |
|  |   |   |   |      | EO1.1                                     | EO1.2 | EO1.3 | EO2.1 | EO2.2 | EO3.1 | EO3.2 | EO3.3 | EO4.1 | EO4.2 |
| INS3013  | TRANSPORTATION                          | 2 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |
| INS3015  | READY MIXED CONCRETE AND EQUIPMENTS     | 2 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |
| INS3017  | STRENGTH OF MATERIALS III               | 2 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |
| INS3019  | ENERGY METHODS IN ENGINEERING MECHANICS | 2 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |
| INS3021  | INTRODUCTION TO STRUCTURAL DYNAMICS     | 2 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |
| INS3023  | ADVANCED MATERIALS OF CONSTRUCTION      | 2 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |
| INS3025  | REINFORCED SOILS                        | 2 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |

| 4TH YEAR - 7TH SEMESTER TECHNICAL ELECTIVE COURSES |  |   |   |      | UNDERGRADUATE EDUCATIONAL OBJECTIVES (EO) |       |       |       |       |       |       |       |       |       |
|--|--|---|---|------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| COURSE CODE  | COURSE NAME                                  | T | P | ECTS | EO 1                                      |       |       | EO 2  |       | EO 3  |       |       | EO 4  |       |
|  |  |   |   |      | EO1.1                                     | EO1.2 | EO1.3 | EO2.1 | EO2.2 | EO3.1 | EO3.2 | EO3.3 | EO4.1 | EO4.2 |
| INS4015  | ENGINEERING ECONOMY                          | 2 | 0 | 4    | X   | X     | X     | X     | X     | X     | X     | X     | X     | X     |
| INS4017  | CONSTRUCTION SITE TECHNOLOGY AND MEASUREMENT | 2 | 0 | 4    | X   | X     | X     | X     | X     | X     | X     | X     | X     | X     |

| 4TH YEAR - 8TH SEMESTER TECHNICAL ELECTIVE COURSES I and II |   |   |   |      | UNDERGRADUATE EDUCATIONAL OBJECTIVES (EO) |       |       |       |       |       |       |       |       |       |
|---|---|---|---|------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| COURSE CODE   | COURSE NAME   | T | P | ECTS | EO 1                                      |       |       | EO 2  |       | EO 3  |       |       | EO 4  |       |
|   |   |   |   |      | EO1.1                                     | EO1.2 | EO1.3 | EO2.1 | EO2.2 | EO3.1 | EO3.2 | EO3.3 | EO4.1 | EO4.2 |
| INS4004   | RIVER HYDRAULICS                                    | 3 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |
| INS4006   | DAMS  | 3 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |
| INS4008   | MULTI STOREY STEEL STRUCTURES                       | 3 | 0 | 4    |   | X     | X     |       |       | X     | X     |       | X     | X     |
| INS4010   | INTRODUCTION TO CONCRETE TECHNOLOGY                 | 3 | 0 | 4    |   | X     | X     |       |       | X     | X     |       | X     | X     |
| INS4012   | PRESTRESSED CONCRETE                                | 3 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |
| INS4014   | HYDROELECTRIC POWER PLANTS                          | 3 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |
| INS4016   | STRUCTURAL FIRE SAFETY                              | 3 | 0 | 4    | X   | X     | X     | X     | X     | X     | X     | X     | X     | X     |
| INS4018   | INTRODUCTION TO GEOTECHNICAL EARTHQUAKE ENGINEERING | 3 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |
| INS4020   | SETTLEMENT OF SOILS                                 | 3 | 0 | 4    |   | X     | X     |       |       | X     | X     |       | X     | X     |
| INS4024   | HIGHWAY SUPERSTRUCTURE                              | 3 | 0 | 4    |   | X     | X     |       |       | X     | X     |       | X     | X     |
| INS4026   | HIGH PERFORMANCE CONCRETE                           | 3 | 0 | 4    |   | X     | X     |       |       | X     | X     |       | X     | X     |
| INS4028   | INTRODUCTION TO SOIL STRUCTURE INTERACTION          | 3 | 0 | 4    | X   | X     | X     |       | X     | X     | X     |       | X     | X     |

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| INS4030 | INTRODUCTION TO SOIL IMPROVEMENT METHODS    | 3 | 0 | 4 |   | X | X |   | X | X | X |   | X | X |
| INS4032 | TRAFFIC ENGINEERING                         | 3 | 0 | 4 | X | X | X |   | X | X | X |   | X | X |
| INS4034 | TUNNEL ENGINEERING                          | 3 | 0 | 4 | X | X | X | X | X |   |   | X | X | X |
| INS4036 | TRANSPORTATION SYSTEMS                      | 3 | 0 | 4 | X | X | X | X | X |   |   | X | X | X |
| INS4038 | INFRASTRUCTURE FACILITIES IN TRANSPORTATION | 3 | 0 | 4 |   | X | X |   |   | X | X |   | X | X |
| INS4040 | STRUCTURAL ANALYSIS III                     | 3 | 0 | 4 | X | X | X |   | X | X | X |   | X | X |
| INS4042 | PREFABRICATED STRUCTURES                    | 3 | 0 | 4 |   | X | X |   |   | X | X |   | X | X |
| INS4044 | INTRODUCTION TO EARTHQUAKE ENGINEERING      | 3 | 0 | 4 | X | X | X |   | X | X | X |   | X | X |
| INS4046 | INTRODUCTION TO EARTHQUAKE RESISTANT DESIGN | 3 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS4048 | CONCRETE HIGHWAYS                           | 3 | 0 | 4 | X | X | X |   |   | X | X |   | X | X |
| INS4050 | IN SITU TESTS IN GEOTECHNICAL ENGINEERING   | 3 | 0 | 4 |   | X | X |   | X | X | X |   | X | X |
| INS4052 | REINFORCED CONCRETE III                     | 3 | 0 | 4 |   | X | X |   | X | X | X |   | X | X |
| INS4054 | NON DESTRUCTIVE TESTING METHODS IN CONCRETE | 3 | 0 | 4 |   | X | X | X |   | X | X |   | X | X |
| INS4056 | INTRODUCTION TO FINITE ELEMENT METHOD       | 3 | 0 | 4 | X | X | X |   | X | X | X |   | X | X |
| INS4058 | REPAIR AND RETROFITTINGIN STRUCTURES        | 3 | 0 | 4 | X | X | X | X | X | X | X | X | X | X |
| INS4060 | PROFESSIONAL FOREIGN LANGUAGE               | 3 | 0 | 4 | X | X | X | X | X |   |   | X | X | X |