COURSES-MASTER’S DEGREE PROGRAM OUTPUTS MATRİX IN THE AGRICULTURAL GENETİC ENGINEERING DEPARTMENT

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| --- | --- | --- | --- | --- | --- | --- |
| Course Type  | Course Code  | Course Title  |  | Credit  |  | Program Outputs  |
| FALL  |  |  | Class  | Practice  | ECTS  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12  | 13  | 14  | 15  |
| Compulsory  | TGM8001  | Plant Molecular Biology Techniques  | 3  | 0  | 8  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| Compulsory  | TGM8003  | Advanced Plant Breeding  | 3  | 0  | 8  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
| Compulsory  | FBE8001  | Scientific Research Techniques and Publication Ethics  | 3  | 0  | 8  | 0  | 0  | 0  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 4  | 4  | 4  | 4  | 0  |
| Compulsory  | TGM6001  | Special Topics  | 5  | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 5  | 5  | 0  | 0  | 0  | 0  |
| Compulsory  | TGM6003  | Thesis Research (Thesis Proposal)  | 0  | 1  | 2  | 0  | 0  | 0  | 0  | 5  | 0  | 0  | 0  | 0  | 5  | 5  | 5  | 5  | 0  | 5  |
| Compulsory  | TGM6007  | Seminar  | 0  | 2  | 6  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 5  | 5  | 0  |
| Compulsory  | TGM6005  | Thesis Research  | 0  | 1  | 30  | 0  | 0  | 0  | 0  | 5  | 0  | 0  | 0  | 0  | 5  | 5  | 5  | 5  | 0  | 5  |
| Elective  | TGM6101  | Genetically Modified Plants  | 3  | 0  | 8  | 5  | 5  | 5  | 5  | 5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| Elective  | TGM6103  | Molecular Genetics of Plant Nutrition  | 3  | 0  | 8  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 0  | 5  | 5  | 0  | 0  | 0  | 0  |
| Elective  | TGM6105  | Cultivar Registration and Protection  | 3  | 0  | 8  | 0  | 0  | 5  | 0  | 0  | 5  | 5  | 0  | 0  | 0  | 5  | 5  | 0  | 0  | 0  |
| Elective  | TGM6107  | Genetic Resources and Plant Breeding  | 3  | 0  | 8  | 5  | 5  | 5  | 5  | 5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| Elective  | TGM6109  | Quantitative Genetics in Plant Breeding  | 3  | 0  | 8  | 5  | 5  | 5  | 5  | 5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| Elective  | TGM6111  | Molecular Markers in Plant Breeding  | 3  | 0  | 8  | 4  | 0  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 4  | 0  | 0  | 4  | 4  | 0  |
| Elective  | TGM6113  | Tissue Culture in Plant Breeding  | 3  | 0  | 8  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  | 0  | 0  |
| Elective  | TGM6115  | Plant Molecular Physiology  | 3  | 0  | 8  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| SPRING  |  |  |  |  |   |   |   |   |   |
| Zorunlu Ders  | TGM8002  | [Experimental Techniques in Plant Breeding](http://bologna.nigde.edu.tr/Dersbilgisi/en/AGE7002)  | 3  | 0  | 8  | 5  | 5  | 5  | 5  | 5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| Zorunlu Ders  | TGM8004  | Genomics  | 3  | 0  | 8  | 4  | 4  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 4  | 4  | 4  | 4  | 4  | 0  |
| Zorunlu Ders  | TGM6002  | Special Topics  | 5  | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 5  | 5  | 0  | 0  | 0  | 0  |
| Zorunlu Ders  | TGM6004  | Thesis Research (Thesis Proposal)  | 0  | 1  | 2  | 0  | 0  | 0  | 0  | 5  | 0  | 0  | 0  | 0  | 5  | 5  | 5  | 5  | 0  | 5  |
| Zorunlu Ders  | TGM6008  | Seminar  | 0  | 2  | 6  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 5  | 5  | 0  |
| Zorunlu Ders  | TGM6006  | Thesis Research  | 0  | 1  | 30  | 0  | 0  | 0  | 0  | 5  | 0  | 0  | 0  | 0  | 5  | 5  | 5  | 5  | 0  | 5  |
| Elective  | TGM6102  | Laboratory Principles in Genetic Engineering  | 3  | 0  | 8  | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2  | 0  | 0  | 0  |
| Elective  | TGM6104  | Hybrid Breeding and Seed Production  | 3  | 0  | 8  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
| Elective  | TGM6106  | Collection and Management of Genetic Resources  | 3  | 0  | 8  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| Elective  | TGM6108  | Haploids in Plant Breeding  | 3  | 0  | 8  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
| Elective  | TGM6110  | Pollination and Fertilization in Plant Breeding  | 3  | 0  | 8  | 3  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| Elective  | TGM6112  | [Functional Genomics in Plant Breeding](http://akts.nigde.edu.tr/ects/index.php?git=ders&derskodu=AGE5116)  | 3  | 0  | 8  | 4  | 4  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  | 0  | 0  | 0  | 0  | 0  |
| Elective  | TGM6114  | Seed Technology and Industry  | 3  | 0  | 8  | 0  | 0  | 0  | 0  | 0  | 5  | 0  | 0  | 0  | 0  | 0  | 0  | 5  | 0  | 0  |