**Highway Maintenance**

**(0901515)**

|  |  |  |
| --- | --- | --- |
| **Course Arabic Name:** | صيانة الطرق | |
| **Course Description:** | Concept of pavements management and maintenance, road elements evaluation, types of asphalt pavement distresses, types of concrete pavement distresses, road condition evaluation , priorities of maintenance needs and distresses treatments. | |
| **Course Credit Hours:** | 3 hours. | |
| **Pre-requisite (ID):** | Highway Geometric Design (0901405) | |
| **Textbook:** | M.Y.Shahin and J.A.Walther , pavement maintenance management for roads and streets using the paver system, Fourth Edition. | |
| **Reference:** | 1. http://www.pavementinteractive.org/ | |
| **Coordinator:** | Dr. Khaled Mahasneh | |
| **Course Contents:** | 1. Introduction 2. Maintenance management concepts and components. 3. Network division and data collection. 4. Pavement condition survey and rating procedure. 5. New techniques for pavement condition prediction. 6. Network level management. 7. Project level management. 8. Development of annual and long range work plans. 9. Asphalt pavement distresses 10. Concrete pavement distresses 11. Pavement distresses treatments. 12. Micro paver computerized systems | |
| **Computer Usage:** | None | |
| **Assessment and Grading:** | Assignments & short reports & quizzes  2 exams @ 20% each  Final exam | … 20%  … 40%  … 40% |
| **Prepared by:** | Dr. | |