**ترميز المقرر الدراسي للدراسات الأولية والعليا – قسم الهندسة المدنية**

1. ***الدراسات الأولية***

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| **Course Title** | **The Course Name** |
| **FIRST YEAR** |
| **101 CM1** | **Mathematics** |
| **102 CEM** | **Engineering Mechanics** |
| **103 CED** | **Engineering Drawing** |
| **104 CEG** | **Engineering Geology** |
| **105 CBM** | **Building Materials** |
| **106 CES** | **Engineering Statistics** |
| **107 CCP1** | **Computer Programming** |
| **108 CEL** | **English Languages** |
| **109 CAL** |  **ArabicLanguage**   |
| **SECOND YEAR** |
| **210 CM2** | **Mathematics** |
| **211 CSu** | **Surveying** |
| **212 CMM** | **Mechanics of Materials** |
| **213 CCP2** | **Computer Programming** |
| **214 CFM** | **Fluid Mechanics** |
| **215 CBC** | **Building Constructions** |
| **216 CCT** | **Concrete Technology** |
| **217 CFD** | **Freedom & Democracy** |
| **THIRD YEAR** |
| **318 CTS** | **Theory of Structures** |
| **319 CSM** | **Soil Mechanics** |
| **320 CRC** | **Reinforced Concrete** |
| **321 CWRE** | **Water Resources Engineering** |
| **322 CEA** | **Engineering Analysis** |
| **323 CTE** | **Traffic Engineering** |
| **324 CEME** | **Engineering Management and Economy** |
| **325 CCCE** | **Computer Applications in Civil Engineering** |
| **326 CNM** | **Numerical Methods** |
| **FOURTH YEAR** |
| **427 CSD** | **Steel Design** |
| **428 CFoD** | **Foundation Design** |
| **429 CTsE** | **Transportation Engineering** |
| **430 CSEE** | **Sanitary and Environmental Engineering**  |
| **431 CCQS** | **Constructional Methods and Quantity Surveying** |
| **432 CRCD** | **Reinforced Concrete Design** |
| **433 CH** | **Hydrology** |
| **434 CST** | **Selected Topics** |

1. ***الدراسات العليا***

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| **Course Title** | **The Course Name** |
| **Structural Engineering / Ph.D** |
| **First Semester:** |
| **941 CABD** | **Advanced Bridges Design** |
| **942 CAFE** | **Advanced Finite Element** |
| **943 CASM** | **Advanced Solid Mechanics** |
| **944 CRCM** | **Reinforced Concrete Modeling** |
| **966 CAEA** | **Advanced Engineering Analysis** |
| **806 CEL1** | **English Language I** |
| **Second Semester:** |
| **950 CDOF** | **Dynamics of Foundations** |
| **954 CASD** | **Advanced Structural Dynamics** |
| **953 CAPC** | **Advanced Prestressed Concrete** |
| **952 CEE** | **Earthquake Engineering** |
| **951 CASS** | **Advanced Stability of Structures** |
| **821 CEL2** | **English Language II** |
| **Soil Mechanics and Foundation / Ph.D** |
| **First Semester:** |
| **962 CDF** | **Deep Foundation** |
| **963 CSD** | **Soil Dynamics** |
| **964 CSMD** | **Soil Modeling** |
| **965 CUS** | **Unsaturated Soils** |
| **966 CAEA** | **Advanced Engineering Analysis** |
| **806 CEL1** | **English Language I** |
| **Second Semester:** |
| **967 CSSI** | **Soil-Structure Interaction** |
| **950 CDOF** | **Dynamics of Foundations** |
|  **CPS 968** | **Problematic Soils** |
| **825 CGEE** | **Geo-Environmental Engineering** |
| **952 CEE** | **Earthquake Engineering** |
| **821 CEL2** | **English Language II** |
| **Construction Management / Ph.D** |
| **First Semester:** |
| **946 CCQM** | **Construction Quality Management** |
| **CICM 947** | **Investment Contracts Management** |
| **CAEE 948** | **Advanced Engineering Economy** |
| **CSMC 949** | **Strategic Management of Construction** |
| **CACM 953** | **Advanced Contracts Management** |
| **806 CEL1** | **English Language I** |
| **Second Semester:** |
| **COPLM 955** | **Optimized Project Life Cycle Management** |
| **CMCAC 956** | **Management of Claims & Arbitration in Construction** |
| **CICM 957** | **International Construction Markets** |
| **959 CMM** | **Maintenance Management** |
| **821 CEL2** | **English Language II** |
| **Sanitary Engineering / M.Sc.** |
| **First Semester:** |
| **832 CAWT** | **Advanced Water Treatment Plant Design** |
| **833 CSWQ** | **Surface Water Quality Modeling and Control** |
| **814 CAES** | **Advanced Engineering Statistics** |
| **834 CADFD** | **Advanced Finite Difference** |
| **835 CMB** | **Microbiology** |
| **806 CEL1** | **English Language I** |
| **Second Semester:** |
| **836 AWWT** | **Advanced Wastewater Treatment Plant Design** |
| **837 CAIW** | **Advanced Industrial Waste Treatment** |
| **838 CSWT** | **Solid Waste Treatment** |
| **839 COSE** | **Optimization in Sanitary Engineering Systems** |
| **840 CNPD** | **Network and Plumbing Design** |
| **821 CEL2** | **English Language II** |
| **Construction Management / M.Sc.** |
| **First Semester:** |
| **812 CCCM** | **Construction Contracts Management** |
| **813 CCOM** | **Construction Plant Management** |
| **814 CAES** | **Advanced Engineering Statistics** |
| **815 CQS** | **Quantity Survey** |
| **806 CEL1** | **English Language I** |
|  | ***Optional Subjects:*** |
| **811 CCPM** | **Construction Project Management** |
| **822 CMAM** | **Mathematical Modeling** |
|  **Second Semester:** |
| **828 CRM** | **Risk Management** |
| **829 CAP** | **Advanced Planning** |
| **830 CCA** | **Cost Accounting** |
| **831 COR** | **Operations Research** |
| **821 CEL2** | **English Language II** |
|  | ***Optional Subjects:*** |
| **827 CGB** | **Green Buildings** |
| **959 CMM** | **Maintenance Management** |
| **Structural Engineering / M.Sc.** |
| **First Semester:** |
| **803 CTE** | **Theory of Elasticity** |
| **802 CASA** | **Advanced Structural Analysis** |
| **816 CTPS** | **Theory of Plates and Shells** |
| **804 CBD** | **Bridges Design** |
| **805 CACD** | **Advanced Concrete Design** |
| **806 CEL1** | **English Language I** |
| **Second Semester:** |
| **817 CSOS** | **Stability of Structures** |
| **818 CFEM** | **Finite Element Method** |
| **801 CDS** | **Dynamics of Structures** |
| **819 CPC** | **Prestressed Concrete** |
| **820 CQCC** | **Quality Control of Concrete** |
| **959 CMM** | **English Language II** |
| **Soil Mechanics and Foundation / M.Sc.** |
| **First Semester:** |
| **807 CAS** | **Advanced Soil Mechanics** |
| **810 CSE** | **Seepage** |
| **808 CSI** | **Soil Improvement** |
| **CAM 811** | **Advanced Mathematics** |
| **809 CAST** | **Advanced Soil Lab and Field Tests** |
| **806 CEL1** | **English Language I** |
| **Second Semester:** |
| **818 CFEM** | **Finite Element Method** |
| **823 CAFD** | **Advanced Foundation Design** |
| **824 CES** | **Earth Structures** |
| **826 CSS** | **Soil Stabilization** |
| **825 CGEE** | **Geo-Environmental Engineering** |
| **959 CMM** | **English Language II** |