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| Muet Mono | **MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY**  **DEPARTMENT OF ELECTRONICS, TELECOMM. & BIOMEDICAL ENGINEERING**  FRM-001/01/QSP-004  Dec. 01, 2001  **TENTATIVE TEACHING PLAN** | ISO9000 Mono |

Name of Teacher: **Dr. Imtiaz Hussain Kalwar**

Subject: **Advanced** **Control Systems** Batch: **14MEESD** Year: **1st** Term: **1st**

## Term Starting Date: 21-07-2014 Term Suspension date: 16-11-2014

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| Sr.# | Topic | **No. of Lectures required** |
| 1 | Review of basic concepts of classical control. | 03 |
| 2 | State Space representation, | 03 |
| 3 | Design of Compensators | 06 |
| 4 | Design of Proportional, | 03 |
| 5 | Proportional plus Integral, | 03 |
| 6 | Proportional Integral and Derivative (PID) controllers. | 03 |
| 7 | Pole Placement Design, | 06 |
| 8 | Design of Estimators, | 06 |
| 9 | Linear Quadratic Gaussian (LQG) controllers, | 03 |
| 10 | Linearization of non-linear systems, | 03 |
| 11 | Design of non-linear systems, | 03 |
| 12 | Analysis and Design of multivariable systems, | 03 |
| 13 | Analysis and Design of Adaptive Control Systems. | 03 |
|  | **Total lectures** | **48** |

Signature of Teacher: Dated: **07-08-2014**

Remarks of DMRC:

Signature of Chairman: Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_