**List of Tables**

|  |  |  |
| --- | --- | --- |
| Table | Title | Page |
| 1.1 | Pilot Study for Fourth Year Students | 6 |
| 3.1 | Summary of Adaptive e-Learning Features and Adaptive e-Learning Approaches | 52 |
| 3.2 | Model Services, Categorised by Architecture Layers, and Mapped to IT Infrastructure | 62 |
| 3.3 | LOs’ Meta-Data Categories, Attributes, and Description | 64 |
| 3.4 | Different Students Groups in this Section | 72 |
| 3.5 | Statistics about the Six conducted quizzes in 2009-10 | 74 |
| 3.6 | Detailed Quizzes’ Statistics | 74 |
| 4.1 | Intelligent Adaptive Online Lecture LOs Advisor Specifications | 92 |
| 4.2 | Felder Learning Style Categories Description | 96 |
| 4.3 | Intelligent Cheat Depressor Service Specifications | 98 |
| 4.4 | Intelligent Study Plan Advisor Service Specifications | 99 |
| 4.5 | Intelligent Time-to-Learn Topic Calculation Specifications | 101 |
| 4.6 | Intelligent Agenda Study Time Planner Specifications | 111 |
| 4.7 | Intelligent Meeting Manager for Suspended Students Specifications | 113 |
| 6.1 | Summary of the Main Statistical Measures of Learning Objects Reading Times in Seconds | 161 |
| 6.2 | Main Statistical Measures of Learning Objects Tokenization Times in Seconds | 162 |
| 6.3 | Main Statistical Measures of Term Frequency Calculation Time in Seconds | 163 |
| 6.4 | Main Statistical Measures of Learning Objects Keywords Insertion Time in Seconds | 164 |
| 6.5 | Main Statistical Measures of Learning Objects Original No. of Words Count | 165 |
| 6.6 | Main Statistical Measures of Learning Objects Tokenized Number of Words Count | 165 |
| 6.7 | Main Statistical Measures of Learning Objects Keywords Insertion Time in Seconds | 167 |
| 6.8 | Summary of Student’s Evaluation of Presented Adaptive e-Learning Models Features | 169 |
| 6.9 | Summary of Instructors’ Evaluation of Presented Adaptive e-Learning Models Features | 170 |
| 6.10 | Summary of the Main Statistical Measures of Precision | 172 |
| 6.11 | Summary of the Main Statistical Measures of Recall | 172 |
| 6.12 | Summary of the Main Statistical Measures of F-Measure | 173 |
| 6.13 | Summary of Intelligent LOs Classifier Training Set | 173 |
| 6.14 | Summary of Intelligent LOs Classifier Testing Set | 174 |