**COURSE OUTLINE**

**Course Code:** CSE 215

**Course Title:** Database

**Level/Term:** 2/2 **Section:** A/B

**Academic Session:** 2018-19

**Course Teachers:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Initial | Room | E-mail |
| Dr. Abu Sayed Md. Latiful Hoque | ASML | - | [asmlatifulhoque@cse.buet.ac.bd](mailto:rifat@cse.buet.ac.bd) |
| Md. Saiful Islam | MSI | 212 | [saiful.11722@gmail.com](mailto:saiful.11722@gmail.com)  [saifulislam@cse.buet.ac.bd](mailto:saifulislam@cse.buet.ac.bd) |

**Assessment:**

|  |  |
| --- | --- |
| Attendance | 10% |
| Class Tests/ Class Assessment / Assignments/ Projects | 20% |
| Term Final | 70% |

**Text and Reference books:**

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| --- | --- | --- |
| Book Name | Author | Edition |
| A First Course in Database Systems | Jeffrey D. Ullman, Jennifer Widom | 2nd |
| DATABASE SYSTEMS The Complete Book | Hector Garcia-Molina, Jeffrey D. Ullman, Jennifer Widom | 2nd |
| Database System Concepts | Avi Silberschatz, Henry F. Korth, and S. Sudarshan | 6th or 7th |

**Tentative Weekly schedule:**

|  |  |  |
| --- | --- | --- |
| Week | Topics | Teacher’s Initial |
| Week 1-3 | * Introduction to Relational Database System and Database Design * Entity Relationship Diagrams * Database Design Theory, Normalization | MSI |
| Week 4-5 | * SQL | MSI |
| Week 6-7 | * Data Definition Language * Constraints * Relational Algebra | MSI |
| Week 8-14 | * Indexing, Hashing * External Memory Algorithms * Query Optimization * Transactions * Data Recovery | ASML |

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| Prepared by: |
| Name: Md. Saiful Islam  Signature: C:\Users\MSI\Desktop\IMG_20181027_130638.jpg  Date: 22-02-2020 |