**Üsküdar University**

**Faculty of Engineering and Natural Sciences**

**Computer Engineering Department**

**Graduation Projects**

**Fall 2021-2022**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Supervisor** | **Subject Title** | **Number of Students for each category** | | | |
| **A** | **B** | **C** | **D** |
| **1** | **Prof.Dr. Serhat ÖZEKES** | Artificial Intelligence | 3 | 2 | 3 | 3 |
| Natural Language Processing |
| Cyber Security |
| Digital Image Processing |
| **2** | **Prof. Dr. Burhan PEKTAŞ** | Optimization Techniques in Computer Sciences | 2 | 3 | 3 | 2 |
| Artificial Neural Networks (ANN) Applications in Computer Science |
| 2D and 3D Visualization for MATLAB |
| MATLAB Applications and Simulink Uses in Real Life Practical Engineering |
| **3** | **Dr.Öğr. Üyesi Ümit TAŞ** | Smart Home Control thru Mobile phone (including camera) | 3 | 2 | 3 | 2 |
| Electro Cardio Graph monitoring via Bluetooth + User interface (store, share) |
| Attendance  Control with Fingerprint |
| Attendance  Control with Iris |
| 8086 Simulator (%100 Software) |
| Neural Network Model for ECG Diagnostic (Matlab required) |
| Neuro-Fuzzy Model for ECG Diagnostic (Matlab required) |
| Any project from students if I approve. |
| **4** | **Dr.Öğr. Üyesi Ihab ELAFF** | Intelligent Robots Design and Implementation | 3 | 3 | 2 | 3 |
| **5** | **Dr.Öğr. Üyesi Ahmed ŞENOL** | Information Hiding – Steganography application | 2 | 3 | 2 | 3 |
| Intrusion Detection and Prevention Systems survey |
| Machine Learning in mail spam detection application or survey |
| Last Trends in Search Engines Survey |
| Phishing, general knowledge and an application |
| Writing a web crawler and indexer |
| **6** | **Dr.Öğr. Üyesi Rowanda AHMED** | Writing a web crawler and indexer | 3 | 2 | 3 | 2 |
| Recommendation Engines (with MovieLens Dataset) |
| Plane Ticket Pricing System |
| Fraudulent action detection  Fake News Detection |
| BigMart Sales Prediction  Iris Flowers Classification |
| **7** | **Dr.Öğr. Üyesi Fatih TEMİZ** | Application of Algebraic Coding Theory | 2 | 3 | 2 | 3 |
| Random Number Generation for Symmetric Encryption |
| Application of Steganography |
| Secret Sharing Schemes |
| Projects proposed by students |
| **8** | **Dr.Öğr. Üyesi Arife Aysun KARAASLAN** | Fixed Point Theory and Applications | 2 | 2 | 3 | 3 |

For students whom want to register graduation project for this year, the following criteria applies:

1. The student should fill in the "Graduation Projects Preference Form" containing the name of the instructor student preferred.
2. **All instructor names** specified in this form should be filled in an order of the student’s choice. Otherwise, the student will be assigned to an instructor who has available space.
3. Then send it to **Dr. Rowanda AHMED**. You send it via **STIX** Message with the subject title “Graduation Projects Preferences Form”.
4. Students will be assigned to instructor’s projects according to the instructor preferences based on available slot for the students’ Categories.
5. Four “Categories” are available as the following:

|  |  |
| --- | --- |
| **Categories** | **GPA Range** |
| A-Category | 3.29 – 4.00 |
| B-Category | 2.99 – 3.28 |
| C-Category | 2.66 – 2.98 |
| D-Category | 0.00 – 2.65 |

1. **27.10.2021 (at 17:00)** is thedeadline to send "Graduation Projects Preference Form".On **29.10.2021,** students’ distribution on projects will be announced.
2. The students, before sending the file, thy should change the file name to this format (**studentID\_name\_surname**).