| General | | ETR 630 Fundamentals of Computer F | Programming 8 credit | |
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| information | number of credits | | | |
| | - | Physics and Electronics | | |
| | | Master 2021 fall | | |
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| | | MSc, MIET, Alim Huseynov | | |
| | | Alim.huseynov@gmail.com | | |
| | | +99455 425 3599 | | |
| | | 11 Mehseti Street, AZ1096 Baku, Azerbaijan (Neftchilar campus), room | | |
| Course language | English | | | |
| Type of the subject | Major | | | |
| Textbooks and | Textbooks: | | | |
| additional | 1. Computer Fundamentals | s and Programming in C (RMK) by An | ita Goel, Anjay Mittal | |
| materials | 2. Computing Fundamenta | ls and C Programming by E. Balagurus | samy | |
| | 1 0 | and programming in C by Dey, Pradip | | |
| Teaching | Lecture | 1000 - 19 99, | + | |
| methods | Group discussions at seminars | | + | |
| Assessment | Components | Date/ Deadline | Percent (%) | |
| | Assignment and quizzes | During the semester | 20 | |
| | Active participation | At each lesson | 10 | |
| | Midterm exam | | 30 | |
| | Final exam | | 40 | |
| | Final | | 100 | |
| | Fillal | The computer is often a very handy tool when solving complex technical problems in engineering and | | |
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midterm exam are not repeated in the final exam.
Violation of the rules of the exams
Disrupting the test and taking copy during midterm and final exams is forbidden. Test papers of the student who do not follow these rules are canceled and the students are expelled from the test by getting 0 (zero).
The rule for completing the course
In accordance with the University rules the overall success rate to complete the course should be 60% or above. The students who failed the exam would be to take this subject next semester or next year.
Rules of conduct for Students
Disruption of the lesson and not following ethical norms during the lesson, as well as conduction of the discussions by the students without permission and using mobile phones is forbidden.

This program reflects the comprehensive information about the subject and information about any changes will be provided in advance.

| Week | Subject topics | Textbooks / Assignments |
|------|--|----------------------------|
| 1. | Basics of computer | Refer to book 1 & 2 |
| | Conduction of oral and written survey. Problem solving | |
| 2 | Data representation and programming fundamentals | Refer to book 1 & 2 |
| 2. | Conduction of oral and written survey. Problem solving | |
| 3. | Data types | Refer to book 1 & 2 |
| | Conduction of oral and written survey. Problem solving | |
| 4 | Variables And Constants | Refer to book 1 & 2 |
| 4. | Conduction of oral and written survey. Problem solving | |
| 5 | Operators And Expressions | Refer to book 1 & 2 |
| 5. | Conduction of oral and written survey. Problem solving | |
| 6. | Decision-Making and Looping Statements | Refer to book 1 & 2 |
| | Conduction of oral and written survey. Problem solving | |
| 7. | Full review of lectures and preparation for midterm exam | Refer to book 1 & 2 |
| | Conduction of oral and written survey. Problem solving | |
| 8. | Arrays | Refer to book 1 & 2 |
| | Conduction of oral and written survey. Problem solving | |
| | Pointers | Refer to book 1 & 2 |
| 9. | Conduction of oral and written survey. Problem solving | |
| 10 | Strings and character arrays | Refer to book 1 & 2 |
| 10. | Conduction of oral and written survey. Problem solving | |
| 11. | Functions | Refer to book 1 & 2 |

| | Conduction of oral and written survey. Problem solving | |
|-----|--|---------------------|
| 10 | Structures And Unions | Refer to book 1 & 2 |
| 12. | Conduction of oral and written survey. Problem solving | |
| 13. | Storage Class And Preprocessor Directives | Refer to book 1 & 2 |
| 15. | Conduction of oral and written survey. Problem solving | |
| 14. | Intruduction to MicroController Programming. | Refer to book 1 & 2 |
| 14. | Conduction of oral and written survey. Problem solving | |
| 15. | Full lifecycle of Microcontroller based project. | Refer to book 1 & 2 |
| | Conduction of oral and written survey. Problem solving | |

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