# AYDIN ADNAN MENDERES UNIVERSITY
## COURSE INFORMATION FORM

| Course Title | Algorithms and Programming | | | | | | |
|---|---|---|---|---|---|---|---|
| Course Code | BPR181 | | Couse Level | Short Cycle (Associate's Degree) | | | |
| ECTS Credit | 2 | Workload | 50 *(Hours)* | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | This course is designed to teach algorithm and coding concepts. | | | | | | |
| Course Content | Algorithms, Flowchart, Coding tools, Variables and constants, Input/output operations, Operators, decision algorithms, loop controls,unidimensional arrays, multi-dimensional arrays, Void sub-programmes, Non-void sub-programmes | | | | | | |
| Work Placement | N/A | | | | | | |
| Planned Learning Activities and Teaching Methods | | | Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study, Problem Solving | | | | |
| Name of Lecturer(s) | | | | | | | |

## Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---|---|---|
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 70 |

## Recommended or Required Reading

| | |
|---|---|
| 1 | Visual Studio 2011, M.Mastar, Kodlab Yayınevi. |
| 2 | C#.net İle Nesne Tem. Prog. Giriş, Ö.Sebetci, Gazi Yayınevi. |
| 3 | Introduction to programming and algorithms Soner Çelikkol Murathan Yayın |

| Week | Weekly Detailed Course Contents | |
|---|---|---|
| 1 | Theoretical | .Algorithms |
| 2 | Theoretical | Flowchart |
| 3 | Theoretical | Coding tools |
| 4 | Theoretical | Variables and constants |
| 5 | Theoretical | Input/output operations |
| 6 | Theoretical | Operators |
| 7 | Theoretical | Decision algorithms |
| 8 | Theoretical | Loop control |
| 9 | Intermediate Exam | Midterm exam |
| 10 | Theoretical | Loop control |
| 11 | Theoretical | One-dimensional arrays |
| 12 | Theoretical | Multi-dimensional arrays |
| 13 | Theoretical | Void sub-programmes |
| 14 | Theoretical | Non-void sub-programmes |
| 15 | Theoretical | Non-void sub-programmes |
| 16 | Final Exam | Final exam |

## Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|---|---|---|---|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Term Project | 1 | 0 | 4 | 4 |
| Laboratory | 5 | 0 | 1 | 5 |
| Reading | 3 | 0 | 1 | 3 |
| Midterm Examination | 1 | 4 | 1 | 5 |

| Final Examination | 1 | 4 | 1 | 5 |
|---|---|---|---|---|
| | | | Total Workload (Hours) | 50 |
| | | | [Total Workload (Hours) / 25*] = **ECTS** | 2 |

*\*25 hour workload is accepted as 1 ECTS*

## Learning Outcomes

| | |
|---|---|
| 1 | Introduction to coding and designing program flowchart |
| 2 | Control statements, array operations and working with sub-programmes |
| 3 | Learns the concept of everyday life like algorithms, with examples from everyday life. |
| 4 | Understands the components and their uses. |
| 5 | Learns the basic properties of Visual Basic. |

## Programme Outcomes *(Garment Manufacturing Technology)*

| | |
|---|---|
| 1 | To be able to use theoretical and practical knowledge related to Garment Manufacturing Technology |
| 2 | To carry out brand management, marketing and promotional activities related to Garment ManufacturingTechnology |
| 3 | Having the skills of data collection, research report preparation and presentation for the research, preparing the project |
| 4 | Being able to plan the processes / processes related to Garment Manufacturing Technology to meet the expectations of the sector, to be able to make business organization, production plan and control, prepare working instructions |
| 5 | To be able to determine textile raw materials and surface properties, to choose garment auxiliary materials, to be able to control materials |
| 6 | To be able to carry out steps of pattern preparation, grading, pattern layout preparation |
| 7 | To be able to use necessary equipments and machines for applications related to Garment Manufacturing Technology and to make adjustments and maintenance |
| 8 | To be able to use computer aided pattern and design programs, production applications in Garment Manufacturing Technology |
| 9 | Having the ability to manage and organize business by creating the idea of establishing a business in the field |
| 10 | To be able to create a model by applying technical drawings of clothing and basic arts education |
| 11 | To be able to realize basic sewing techniques, production stages of women's, men's and children's wear |

## Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

| | L4 |
|---|---|
| P3 | 2 |