

İndirilme Tarihi

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BİL104 - VISUAL PROGRAMMING I - Meslek Yüksekokulu - Bilgisayar Teknolojileri Bölümü

General Info

Objectives of the Course

Acquire competencies related to the visual programming fundamentals

Course Contents

Installing a visual programming software, and changing the program settings, Forms and properties, Standard components, Input and message box, Dialogue windows, Advanced components, Operators, Functions, Decision structures and Loops, Arrays, Graphic Applications, Report Applications

Recommended or Required Reading

- M. Furkan A., (2017), C# ile Görsel Programlama, Abaküs - Dr. Mustafa Akpınar, 2021,GÖRSEL PROGRAMLAMA - Yeni Başlayanlar ve Meslek Yüksek Okul Öğrencilerine Yönelik - https://maol.meb.gov.tr/web/mem/alanlar/bilisim/dbf/gorsel_programlama.pdf - https://megep.meb.gov.tr/mte_program_modul/moduller_pdf/Gorsel%20Programlama%20Temelleri.pdf - https://selcuk.edu.tr/contents/huglu_myobilgisayar_teknolojileri/icerik/52890/Gorsel_Programlama_II_638358601349342528.pdf - <https://www.w3schools.com/cs/index.php> Projector, Computer

Planned Learning Activities and Teaching Methods

Lecture, Q&A, Practice, Problem Solving

Recommended Optional Programme Components

-The course should be actively followed and notes should be taken -Code should be written regularly and practiced -Small scale projects should be developed for the beginning

Instructor's Assistants

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Presentation Of Course

The course will be given in the computer laboratory in the form of topic explanation, example solutions and application development.

Dersi Veren Öğretim Elemanları

Inst. Kadir Aba

Program Outcomes

1. Can install and configure visual programming editor
2. Can work with forms.
3. Can perform basic applications.
4. Can develop advanced applications.

Weekly Contents

| Order | PreparationInfo | Laboratory | TeachingMethods | Theoretical | Practise |
|-------|---|--|--|--|--|
| 1 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Installing and configuring Visual Studio | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Installing and configuring Visual Studio | Installing and configuring Visual Studio |
| 2 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Introduction to Windows Form Applications, Forms and their features, common features (Enabled, Visible, Text, BackColor) | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Introduction to Windows Form Applications, Forms and their features, common features (Enabled, Visible, Text, BackColor) | Introduction to Windows Form Applications, Forms and their features, common features (Enabled, Visible, Text, BackColor) |
| 3 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Basic Components: Label, TextBox, Button | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Basic Components: Label, TextBox, Button | Basic Components: Label, TextBox, Button |

| Order | PreparationInfo | Laboratory | TeachingMethods | Theoretical | Practise |
|-------|---|--|--|--|--|
| 4 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Events and Event-Driven Programming | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Events and Event-Driven Programming | Events and Event-Driven Programming |
| 5 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Form Controls: CheckBox, RadioButton, MessageBox, Containers etc. | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Form Controls: CheckBox, RadioButton, MessageBox, Containers etc. | Form Controls: CheckBox, RadioButton, MessageBox, Containers etc. |
| 6 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | List Controls: ListBox, ComboBox | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | List Controls: ListBox, ComboBox | List Controls: ListBox, ComboBox |
| 7 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Interaction between objects and dynamic coding | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Interaction between objects and dynamic coding | Interaction between objects and dynamic coding |
| 8 | | | | Midterm Exam | |
| 9 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Dialog Boxes: OpenFileDialog, SaveFileDialog, ColorDialog etc. | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Dialog Boxes: OpenFileDialog, SaveFileDialog, ColorDialog etc. | Dialog Boxes: OpenFileDialog, SaveFileDialog, ColorDialog etc. |
| 10 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Other controllers in the standard ToolBox | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Other controllers in the standard ToolBox | Other controllers in the standard ToolBox |
| 11 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Using Menu and ToolStrip | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Using Menu and ToolStrip | Using Menu and ToolStrip |
| 12 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Working with Multiple Forms | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Working with Multiple Forms | Working with Multiple Forms |
| 13 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Object Collections and Dynamic Object | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Object Collections and Dynamic Object | Object Collections and Dynamic Object |
| 14 | -> Resources: The topic of the relevant week from the resources uploaded to the system -> The topic of the relevant week from the recommended resources | Timer Object and Counters, General Review and Final Exam Preparation | Telling Method, Showing and Doing Method, Discussion Method, Problem Solving Method, Individual Study Method, Question and Answer, Observation | Timer Object and Counters, General Review and Final Exam Preparation | Timer Object and Counters, General Review and Final Exam Preparation |
| 15 | | | | Final Exam | |

Workload

| Activities | Number | PLEASE SELECT TWO DISTINCT LANGUAGES |
|-----------------------|---------------|---|
| Vize | 1 | 1,00 |
| Final | 1 | 1,00 |
| Derse Katılım | 14 | 4,00 |
| Ara Sınav Hazırlık | 2 | 5,00 |
| Final Sınavı Hazırlık | 2 | 6,00 |
| Ev Ödevi | 3 | 9,00 |
| Proje | 6 | 3,00 |
| Diğer | 8 | 3,00 |

Assesments

| Activities | Weight (%) |
|-------------------|-------------------|
| Ara Sınav | 40,00 |
| Final | 60,00 |

| | P.O. 1 | P.O. 2 | P.O. 3 | P.O. 4 | P.O. 5 | P.O. 6 | P.O. 7 | P.O. 8 | P.O. 9 | P.O. 10 | P.O. 11 | P.O. 12 | P.O. 13 | P.O. 14 | P.O. 15 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| L.O. 1 | | | | 5 | | | | | | | | | | | |
| L.O. 2 | | | | 5 | | | | | | | | | | | |
| L.O. 3 | | | 5 | 5 | 5 | | | | | | | | | 5 | |
| L.O. 4 | | | 5 | 5 | 5 | | | | | | | | | 5 | |

Table :

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- P.O. 1 :** Mesleği ile ilgili temel, güncel ve uygulamalı bilgilere sahip olur
- P.O. 2 :** İş sağlığı ve güvenliği, çevre bilinci ve kalite süreçleri hakkında bilgi sahibi olur
- P.O. 3 :** Mesleği için güncel gelişmeleri ve uygulamaları takip eder, etkin şekilde kullanır
- P.O. 4 :** Mesleği ile ilgili bilişim teknolojilerini (yazılım, program, animasyon vb.) etkin kullanır
- P.O. 5 :** Mesleki problemleri ve konuları bağımsız olarak analitik ve eleştirel bir yaklaşımla değerlendirme ve çözüm önerisini sunabilme becerisine sahiptir
- P.O. 6 :** Bilgi ve beceriler düzeyinde düşüncelerini yazılı ve sözlü iletişim yolu ile etkin biçimde sunabilir, anlaşılır biçimde ifade eder
- P.O. 7 :** Alanı ile ilgili uygulamalarda karşılaşılan ve öngörülemeyen karmaşık sorunları çözmek için ekip üyesi olarak sorumluluk alır
- P.O. 8 :** Kariyer yönetimi ve yaşam boyu öğrenme konularında farkındalığa sahiptir
- P.O. 9 :** Alanı ile ilgili verilerin toplanması, uygulanması ve sonuçlarının duyurulması aşamalarında toplumsal, bilimsel, kültürel ve etik değerlere sahiptir
- P.O. 10 :** Bir yabancı dili kullanarak alanındaki bilgileri takip eder ve meslektaşları ile iletişim kurar
- P.O. 11 :** Algoritma ve veri yapılarını oluşturur ve matematiksel hesapları yapar
- P.O. 12 :** Web programlama teknolojilerini açıklar ve uygular
- P.O. 13 :** Veri tabanı tasarımı ve yönetimini gerçekleştirir
- P.O. 14 :** Yazılımları test eder ve hataları giderir
- P.O. 15 :** Türkiye Cumhuriyeti tarihi ve Atatürk İlkeleri ve İnkılapları hakkında bilgi sahibi olur
- L.O. 1 :** Görsel programlama editörü kurulum ve ayarlarını yapabilir
- L.O. 2 :** Formlarla çalışabilir.
- L.O. 3 :** Temel uygulamalar yapabilir.
- L.O. 4 :** İleri uygulamalar geliştirebilir.