

# MOBILE PROGRAMMING I

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|------|---|---|--|
| 1    | Course Title:   | MOBILE PROGRAMMING I  |  |
| 2    | Course Code:  | BLPS239   |  |
| 3    | Type of Course:   | Optional  |  |
| 4    | Level of Course:  | Short Cycle   |  |
| 5    | Year of Study:  | 2   |  |
| 6    | Semester:   | 3   |  |
| 7    | ECTS Credits Allocated:   | 3.00  |  |
| 8    | Theoretical (hour/week):  | 2.00  |  |
| 9    | Practice (hour/week):   | 0.00  |  |
| 10   | Laboratory (hour/week):   | 0   |  |
| 11   | Prerequisites:  | None  |  |
| 12   | Language:   | Turkish   |  |
| 13   | Mode of Delivery:   | Face to face  |  |
| 14   | Course Coordinator:   | Öğr. Gör. RUKİYE TOPUZ  |  |
| 15   | Course Lecturers:   | Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları   |  |
| 16   | Contact information of the Course Coordinator:  | rtopuz@uludag.edu.tr<br>0224 294 26 77  |  |
| 17   | Website:  |   |  |
| 18   | Objective of the Course:  | To enable students to explain the basic features of mobile devices and to be able to develop applications for mobile devices.   |  |
| 19   | Contribution of the Course to Professional Development:                                   | Uses mathematical skills in the professional field.<br>Takes part in software (PC, network environment and internet) planning and design.<br>Finds solutions to problems that will arise by thinking algorithmically in the professional field. |  |
| 20   | Learning Outcomes:  |   |  |
|      |   | 1   | To understand mobile systems and development tools |
|      |   | 2   | To develop applications for mobile devices         |
|      |   | 3   |  |
|      |   | 4   |  |
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|      |   | 10  |  |
| 21   | Course Content:   |   |  |
|      |   | <b>Course Content:</b>  |  |
| Week | Theoretical   | Practice  |  |
| 1    | Fundamentals of software and mobile devices (Mobile Websites, Native and Web Application) |   |  |
| 2    | Software Development Basics for Android, iOS and WindowsPhone                             |   |  |
| 3    | Using Sensors (Accelerometer, Orientation, Compass)                                       |   |  |

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| 4  | Using Camera and Pictures                              |  |
| 5  | Using phonebook and sending bulk messages              |  |
| 6  | Control of the internet connection and working offline |  |
| 7  | Events (Network, Button and Application events)        |  |
| 8  | Working with file system                               |  |
| 9  | Using Location service and maps (GeoLocation)          |  |
| 10 | Using notifications                                    |  |
| 11 | Working with database                                  |  |
| 12 | Working with different screen sizes                    |  |
| 13 | Preparing a game with using canvas                     |  |
| 14 | Publishing programmes on the store                     |  |

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| 22 | Textbooks, References and/or Other Materials: | <ul style="list-style-type: none"> <li>- Apache Cordova 3 Programming, John M. Wargo;</li> <li>- PhoneGap 3 Beginners Guide, Giorgio Natili;</li> <li>- PhoneGap 3.x Mobile Application Development Hotshot, Gerard Braad;</li> <li>- PhoneGap Beginners Guide, Andrew Lunny;</li> <li>- PhoneGap Essentials, John M. Wargo</li> </ul> |
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| 23 | Assesment |
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| TERM LEARNING ACTIVITIES   |  | NUMBE<br>R | WEIGHT |                 |                        |
|----------------------------|--|------------|--------|-----------------|------------------------|
| Activites                  |  |            | Number | Duration (hour) | Total Work Load (hour) |
| Home work-project          |  | 0          | 0      | 2.00            | 28.00                  |
| Practicals/Labs            |  |            | 0      | 0.00            | 0.00                   |
| Self study and preperation |  | 2          | 14     | 1.00            | 14.00                  |
| Homeworks                  |  |            | 1      | 1.00            | 1.00                   |
| Success Grade Projects     |  |            | 4      | 3.00            | 12.00                  |
| Field Studies              |  |            | 0      | 0.00            | 0.00                   |
| Midterm exams              |  |            | 1      | 10.00           | 10.00                  |
| Others                     |  |            | 0      | 0.00            | 0.00                   |
| Final Exams                |  |            | 1      | 20.00           | 20.00                  |
| Total Work Load            |  |            |        |                 | 95.00                  |
| Total work load/ 30 hr     |  |            |        |                 | 2.83                   |
| ECTS Credit of the Course  |  |            |        |                 | 3.00                   |

| 25  | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS |     |       |     |          |     |        |     |             |      |      |      |      |      |      |      |
|---|---|-----|-------|-----|----------|-----|--------|-----|-------------|------|------|------|------|------|------|------|
|   | PQ1   | PQ2 | PQ3   | PQ4 | PQ5      | PQ6 | PQ7    | PQ8 | PQ9         | PQ10 | PQ11 | PQ12 | PQ13 | PQ14 | PQ15 | PQ16 |
| ÖK1   | 4   | 1   | 0     | 0   | 0        | 0   | 0      | 0   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| ÖK2   | 4   | 0   | 0     | 0   | 0        | 0   | 0      | 0   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| LO: Learning Objectives    PQ: Program Qualifications |   |     |       |     |          |     |        |     |             |      |      |      |      |      |      |      |
| Contrib ution Level:                                  | 1 very low  |     | 2 low |     | 3 Medium |     | 4 High |     | 5 Very High |      |      |      |      |      |      |      |