

Course title:	Web design PHP & MySQL
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Course code	Course status	Semester	Number of ECTS credits	Lecture hours
132005012	Mandatory	V	6	3+0+1

Study program:
Basic applied studies, ELECTRICAL ENGINEERING, study program: Computer engineering (studies last for 6 semesters, 180 ECTS credits).

Prerequisites:
No prerequisites required.

Course aims:
To create dynamic Web application. Students are introduced to theory and practical techniques of Web site creating and development. Course covers PHP and MySQL as popular open-source technologies, perfect for fast, efficient and simple development of actual Web applications.

Teacher(s) and assistant(s):
Ph.D. Budimir Lutovac - teacher
M.Sc. Irena Orović - assistant
Dipl.ing. Predrag Raković - assistant

Teaching method:
Lectures, exercises in a computer classroom, studying and doing home exercises. Consultations.

Course synopsis:

Preliminary weeks	Preparation and semester enrolment.
I week	Introduction - Web design, principles of a Web site creating, basics of HTML.
II week	Short HTML course. Introduction to PHP.
III week	Basics of PHP (arrays and regular expressions).
IV week	Basics of PHP (functions and PHP code reuse). Introduction to the object-oriented PHP.
V week	MySQL database - basics. Web based database access by using PHP.
VI week	First test
VII week	Free week
VIII week	Authorization by means of PHP and MySQL. Work with file system and server. Advanced PHP.
IX week	Use of network protocol functions. Work with dates and time.
X week	Image generating. PHP session handling. Other useful possibilities.
XI week	Troubleshooting. User identification and presentation personalization.
XII week	Second test
XIII week	Content management system. E-mail service application creation.
XIV week	Generating of portable document format (pdf) personalized files.
XV week	Connection to Web services by using XML and SOAP. <i>Preparation for the final exam.</i>
XVI week	Final exam
Final week	Administrative procedures.
XVIII-XXI week	Additional lessons, correction of the final exam and administrative procedures.

STUDENT WORKLOAD

<u>per week</u>	<u>per semester</u>
<p>Working hours: 6 credits x 40/30 = 8 hours.</p> <p>Working hours structure:</p> <ul style="list-style-type: none"> 3 hours for teaching 1 hours for exercises 4 hours for individual work, including consultations. 	<p>Teaching and the final exam: (8 hours) x 16 = 128 hours.</p> <p>Necessary preparation (before semester): 2 x (8 hours) = 16 hours.</p> <p>Total work hours for the course: 6 x 30 hours = 180 hours</p> <p>Additional hours for preparing correction of the final exam, including the exam taking: up to 36 hours.</p> <p>Work hours structure:</p> <p>128 hours (lectures) + 16 hours (preparation) + 36 hours (additional work)</p>

Lessons attendance is mandatory for students, as well as doing home exercises and both tests.

Literature: L. Thomson, L. Welling: PHP i MySQL : Razvoj aplikacija za Web, Mikro knjiga, 2003.
H. E. Williams, D. Lane: Web aplikacije i baze podataka: PHP i MySQL, Mikro knjiga, 2003.
Internet resources: www.widgetmonkey.com; www.w3schools.com; www.webertrivia.com; www.zend.com etc.

The forms of knowledge testing and grading:

- Home exercises carry 5x1 points.
- Each test carries 25 points (50 points total).
- Final exam carries 45 points.

Student gets the passing grade by collecting 51 points at least.

Special remarks for the course: The lessons are organized for student groups with approximately 120 students. If needed, the course can be also taught in English.

Teacher(s) who provided the information: Ph.D. Budo Lutovac

Remark: