<table>
<tr><th colspan="2">Course Description Form</th></tr>
<tr><td>Course Code and Name</td><td>5161329 Next Generation Internet Technologies</td></tr>
<tr><td>Course Semester</td><td>Fall - Spring</td></tr>
<tr><td>Catalog Content</td><td>Internet core components - HTTP, DNS, TCP and Web server IP - what they are and how they serve HTML 5, JSP, PERL</td></tr>
<tr><td>Textbook</td><td>Programming The World Wide Web, By Robert W. Sebesta (5th Edition)</td></tr>
<tr><td>Supplementary Textbooks</td><td>-</td></tr>
<tr><td>Credit</td><td>8</td></tr>
<tr><td>Prerequisites of the Course
(Attendance Requirements)</td><td>There is no prerequisite or co-requisite for this course.</td></tr>
<tr><td>Type of the Course</td><td>Elective</td></tr>
<tr><td>Instruction Language</td><td>Turkish</td></tr>
<tr><td>Course Objectives</td><td>The aim of this course is to ensure that students have the knowledge and skills in user and server side software development using modern and up-to-date Internet development technologies.</td></tr>
<tr><td>Course Learning Outcomes</td><td>1. Providing sufficient knowledge about internet technologies.
2. Ability to apply theoretical and applied knowledge in these areas to model and solve engineering problems.
3. Having the competence to manage and develop new generation communication technologies.</td></tr>
<tr><td>Instruction Methods</td><td>The mode of delivery of this course is Face to face</td></tr>
<tr><td>Weekly Schedule</td><td>1. Week: Introduction to Internet Technologies
2. Week XHTML: Basic HTML Consumer
3.Week XHTML: Frames & Forms
4. Week XHTML: Frames & Forms
5. Week JAVASCRIPT: Global Functions
6. Week JAVASCRIPT: Cookies
7. Week MID-TERM EXAM I
8. Week Extendable Marking Language (XML)
9. Week Introduction to Database and MYSQL
10. Week PHP: String Processing and Rational Expressions
11. Week PHP: Form Processing and Business Management
12.Week HTML 5 Concepts And Samples
13.Week Active Server Pages (ASP)
14.Week JSP And PERL With Server-Side Codecs</td></tr>
<tr><td>Teaching and Learning Methods

(These are examples. Please fill which activities you use in the course)</td><td>Weekly theoretical course hours
Reading Activities
Internet browsing, library work
Preparing a Presentation
Preparation of Midterm and Midterm Exam
Final Exam and Preparation for Final Exam</td></tr>
<tr><td>Assessment Criteria</td><td>
<table>
<tr><th></th><th>Numbers</th><th>Total Weighting (%)</th></tr>
<tr><td>Midterm Exams</td><td>1</td><td>60</td></tr>
<tr><td>Assignment</td><td>5</td><td></td></tr>
<tr><td>Application</td><td></td><td></td></tr>
<tr><td>Projects</td><td></td><td></td></tr>
<tr><td>Practice</td><td></td><td></td></tr>
<tr><td>Quiz</td><td></td><td></td></tr>
<tr><td>Percent of In-term Studies (%)</td><td></td><td></td></tr>
<tr><td>Percentage of Final Exam to Total Score (%)</td><td></td><td>60</td></tr>
<tr><td>Attendance</td><td></td><td>40</td></tr>
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Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours	14	3	42
Weekly Tutorial Hours			
Reading Tasks	12	3	36
Studies	12	3	36
Material Design and Implementation			
Report Preparing			
Preparing a Presentation	4	8	32
Presentations	4	1	4
Midterm Exam and Preperation for Midterm Exam	1	15	15
Final Exam and Preperation for Final Exam	1	20	20
Other (should be emphasized)			
Total Workload			185
Total Workload / 25			7.68
Course Credit (ECTS)			8

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Reaches the expansion of knowledge by conducting scientific research in the field of engineering and evaluation, interpretation and application of information.					x
2	Has extensive and in depth knowledge including the latest techniques, methods applied and their limitations in engineering.				x	
3	Completes and applies knowledge by using scientific methods by using limited or missing data and integrates information from different disciplines.			x		
4	Be aware of new and developing practices of the profession, examines and learns when needed.				x	
5	Defines and formulates problems related to the field, develops methods to solve them and applies innovative methods in solutions.		x			
6	Develops new and / or original ideas and methods, designs complex systems or processes and develops innovative / alternative solutions in their designs.			x		
7	Designs and applies theoretical, experimental and modeling based researches, examines and solves the complex problems encountered in this process.		x			

	8	Works effectively in disciplinary and multidisciplinary teams, leads such teams and develops solution approaches in complex situations, works independently and takes responsibility.			x			
	9	Communicates oral and written using a foreign language at least at the level of European Language Portfolio B2.		x				
	10	Conveys the process and results of the studies in written and oral form in a systematic and clear manner in national and international environments within or outside the field.		x				
	11	Knows the social, environmental, health, security, legal aspects of engineering applications; project management, and business life applications and be aware of the constraints of these engineering applications.				x		
	12	Considers social, scientific and ethical values in the stages of data collection, interpretation and announcement and in all professional activities.				x		
The Course's Lecturer(s) and Contact Information	Name Surname: Prof.Dr.Şeref SAĞIROĞLU E-mail address: ss@gazi.edu.tr							