



# CERTIFICATE

## Mateusz Pytel

Has successfully completed test requirements of  
The European Information Technologies Certification Programme

### EITC/INT/IT2 Internet technologies 2

**Certification Programme examination result:**



71%

**Certification Programme description:**

Server Side Includes (SSI), Active Server Pages (ASP), ASP.NET: dynamic web pages creation technology, Microsoft.NET platform, ASP.NET controls, ASP.NET session variables, code separation, ASP.NET and Visual Studio; PHP Hypertext Preprocessor: technology and PHP language, variables in PHP; JavaServer Pages (JSP) and JavaServer Pages Expression Language (JSP EL), server pages for Java servlets; Creating business logic, tag library; JavaBean components, JSP tag libraries, standard JSTL tag library, tag files; Database access mechanisms in web technologies: JDBC databases in Java EE applications, O/RM technologies and Java Persistence standard, ADO.NET databases in ASP.NET applications, databases in PHP applications; Web application infrastructure and ASP.NET Web Forms architecture: problems in Web applications, interface in Web Forms, Auto Post Back mechanism, interface state in ASP.NET, data validation in ASP.NET, security and navigation in ASP.NET; MVC architecture and its implementation for Java EE - Apache Struts: MVC architecture (Model-View-Controller), MVC in Java EE applications - JSP Model 2; Infrastructure for Java EE application - JSF (Java Server Faces): JSF technology, data presentation in tables (h:dataTable component), JSF in IDE; HTTP servers - Apache Server: Apache HTTP server architecture, configuration of Apache, Apache log, block directives in Apache, access protection in Apache server; Web application security: Web application threats (source code theft, attack on HTML hidden fields, attack on Cookies, "Path Traversal" attack, "SQL Injection" attack, session hijacking, "Denial of Service" attack, data validation in Struts), defensive mechanisms (validation of parameters passed by user, public website limitations and restrictions)

**Certificate Programme version/revision: EITC/INT/IT2v1r2**

**Earned ECTS credits: 2**



**CERTIFICATE ID: EITC/INT/IT2/MDL/10372430**

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