Program	Level	Schort cycle
	Name of the program	Infomation Technologies

COURSE

Course title	**Web Programming II**			
Course code	Semester	Course status	ECTS	Contact hours (L+AE+LE)
IT 270	IV	Mandatory course	5	2+0+2
Lecturer				
Course Goals	The module's objectives are to familiarize students with creating dynamic web systems through scripting languages and connecting with databases—knowledge of client-server technology. In addition, students are introduced to the methodology of solving problems by creating a dynamic website.			
Learning Outcomes	Through the mentioned module, students will master the use of scripting languages and databases through independent work on laboratory exercises as a means for designing and implementing an information system, as well as training students to develop these systems.			

COURSE CONTENT

- Basics of PHP language;
- Creating PHP scripts;
- Scalar values;
- Advanced PHP programs;
- PHP and My SQL;
- Node.js;
- Npm;
- Asynchronous programming;
- React framework - Git and GitHub;
- Web services SOAP and REST models;
- WSDL;
- Writing web services;
- MongoDB;
- Mongoose;
- Express;
- Socket.IO;
- Angular.JS;
- JWT Authentication.

LITERATURE

[1] Larry Ullman: PHP and MySQL for Dynamic Web Sites: Visual QuickPro Guide (5th Ed.), Peachpit Press, 2017.
[2] Jim Wilson: Node.js the Right Way: Practical, Server-Side JavaScript That Scales, 1st Ed., Pragmatic Bookshelf, 2013.
[3] Evan M. Hahn: Express in Action (Writing, building, and testing Node.js applications), Manning Publications, 2016.
[4] Basarat Ali Syed: Beginning Node.js, Apress, 2014.

STUDENT WORKLOAD (hours in a semester)

Lectures	30	Exercises	30	Individual work	65	T o t a l	125

GRADING			REMARKS	
Criterion	Maximum points	Minimum points		
Midterm exams	5	3		
Homework	5	3		

Projects	40	21	
Seminar	5	3	
Final exam	45	25	
T o t a l	100	55	