Course Syllabus

Course Basic Information			
Academic Unit:	**Faculty of Civil Engineering**		
Course Name:	**Metallic structures**		
Level:	**Bachelor**		
Course Status:	**Mandatory**		
Year of Study:	**III– (third)**		
Number of Hours per Week:	**2+1**		
ECTS Credits:	**3**		
Time /Venue:			
Course Teacher:	Mr.Sc. Ali Muriqi		
Contact Details:	ali.muriqi@uni-pr.edu www.fn.uni-pr.edu		
Course Description:	***Te Plotesohen***		
Course Goals:	***Te plotesohen***		
Expected Learning Outcomes:	***Te plotesohen***		
Student Workload (Consistent with the Learning Outcomes)			
Activity	**Activity**	**Activity**	**Activity**
Lectures	2	15	30
Theory/ Lab Work/Exercises	2	15	30
Practical Work	0	0	0
Consultations with the teaher	2	2	4
Field Work	0	0	0
Test, seminar paper	2	3	6
Homework	2	15	30
Self-study (library or home)	2	15	30
Preparation for final exam	4	5	20
Assessment time (test, quiz, final exam)	2	3	6
Projects, presentations, etc.	1	7	7
Site Visits of the Buildings	2	2	4
Student Workload	8	2	16
Total			**183**
Teaching Methods:	- *Lectures with presentation and practical demonstrations of elements, materials for Structures.* - *Numerical exercises* - *Semester Seminar concrete examples.* - *intercommunication during lections.* - *Exercises on Group.*		
Assessment Methods:	*During the semester is organize three colloquiums with below assignments:* - *colloquium I 10%,* - *colloquium II 10%* - *colloquium I 10%* - *presence 5%*		

	- *home work 5%* - *design work 20%* - *Final exam 40%*
Literature	
Primary Literature:	Mr.sc.Faik Hasani (Dispatch with Authorized Lectures), FNA, Prishtina Basics of Metal Constructions by: Milosavlevic, Radojkovic, Kuzmanovic G.K.Beograd
Additional Literature:	Steel construction basis – Milosavlevic & Kumanovic. Prof. Dr. Ivica Dzeba Construction metalic –I-, FN, Zagreb Eurocode 1 and 3

Design and Teaching plan:	
Week	**Title of the Lecture**
Week 1:	- Introduction, the history of the development of metal buildings in general. - Roof covers in general – corrugated tile covers. - Cover plates "Durisol". - - Cover plates "Siporex" and polyester.
Week 2:	- Roof loads in general - permanent loads. - Temporary loads (snow, wind, maintenance worker). - Types of ribs in general - the way of construction. - - rafter from pressured profiles.
***Week 3*:**	- Winches from welded profiles. - Rafters with light walls (with holes). - Capricorn-shaped fins. - - "R" rafters
Week 4:	- General, Linear main bearer. - Steel main bearer. - Steel truss bearer. - Combined steel Bearer
Week 5:	- Arrangement of the steel main bearer - Computation of steel profile as a main bearer - Computation of the steel trusses as a main bearer. - Arrangement of the mounting joints and fabricated joints at the main bearer.
***Week 6*:**	- Horizontal and vertical joint connections at the roofs. - General, the spatial structural members. - Linear – spatial structural members.
Week 7:	- Three dimensions steel trusses. - Static methods for computation of the spatial steel trusses, joint details.

	- Steel membranes – their network. - Hanged roofs.
Week 8:	- Natural light of industrial halls. - Ventilations of the Industrial halls. - In general, Steel Columns - The cross sections for steel columns.
Week 9:	- Design of head of columns. - Base design of the steel columns. - Connection of the main steel trusses with the columns.
Week 10:	- In general, the supports. - Areas supports. - Tangential supports. - Supports over the cylinders. - Spherical supports.
***Week 11*:**	- In general, the front cover structure. - Longitudinal building structure with the massive members. - Longitudinal/transversal closing with the plate "sandwich" panels. - Longitudinal/transversal closing with the durisol or siporex panels.steel trusses with the columns.
***Week 12*:**	- Longitudinal building steel structure. - Transversal building steel structure. - Specific cases of the transversal structures. - Bracing of the long/tran walls.
***Week 13*:**	- Structural Static systems for the halls. - Halls with the one span. - Halls with the two or more spans. - Arrangement of the interior columns at the halls.
***Week 14*:**	- In general, routes at the Crane bridges. - Movement cranes. - Cantilever and rotate crane bridges. - Beams or routes under the cranes - Support of crane beams.
***Week 15*:**	***Student tests***

Academic Policies and Rules of Civility:

We start and finish class on time.
Tools used during class must be cleaned and stored away at the end of class.
Mobile/smart phones, and other electronic devices (e.g. iPods) must be turned off (or on vibrate) and hidden from view during class time.
Laptop and tablet computers are allowed for quiet use only; other activities such as checking personal e-mail or browsing the Internet are prohibited.