Lublin University of Technology, **Faculty of Environmental Engineering**
Responsible exchange co-ordinator: **Name,** **Prof. Dr hab. Lucjan Pawłowski, e-mail: L.Pawlowski@wis.pol.lublin.pl**
Name of the programme: **Environmental Protection Engineering**

Classes available in English
Current schedule – fall semester (October 1 – February 15)
Plans – to move into spring semester (February 15 – June 30)
due to transformation into 2 stage studies

Title of the class: **Advanced soil science**	
Lecturer: **prof. Witold Stępniewski** **e-mail: W.Stepniewski@wis.pol.lublin.pl**	
Keywords: International soil classification, soil chemistry, soil physics, soil physical chemistry, soil oxygenology, anthropogenic soils, soil degradation, migration and fate of pollutants in soil.	
Language: English	Type of class: lecture
Credits: **3**	Extent, total hours: 30
Semester: October-February	Length of the semester (weeks): 15

Title of the class: **A Sustainable Baltic Region**	
Lecturer**: dr Artur Pawłowski** **e-mail: a.pawlowski@wis.pol.lublin.pl**	
Keywords: Sustainable development: agriculture, forestry, fishery, sustainable industrial production, ecological economics, Baltic Region: law, culture, protection of the environment	
Language: English	Type of class: lecture
Credits: **3**	Extent, total hours: 30
Semester: October-February	Length of the semester (weeks): 15

Title of the class: **Computer Science II (programming)**	
Lecturer: **prof Henryk Sobczuk**, **e-mail:** h.sobczuk@wis.pol.lublin.pl	
Key words: programming in C, main structure of a code, loops, arithmetic and logical operators, functions, variables, and prototypes, strings and arrays, pointers, input/output, character manipulation.	
Language: English	Type of class: lecture + labs
Credits: **7**	Extent, total hours: 30 + 45
Semester: October-February	Length of the semester (weeks): 15

Title of the class: **Waste Management**	
Lecturer: **prof. Marzenna R. Dudzińska** **e-mail: m.dudzinska@wis.pol.lublin.pl**	
Key words: Basic definitions, waste classification, industrial and municipal wastes, nuclear wastes, medical wastes. Waste management strategies and waste utilization methods. Waste minimization, material recycling, energy recovery. Waste deposition on landfills – localization, construction, management and reclamation of landfill. Thermal, chemical and biological methods of waste utilization. Thermal methods: incineration, pirolysis, incineration in cement kilns. Biological methods: composting and methane digestions – basics of processes, installations Chemical methods – selected processes for selected industrial wastes, no-waste technologies	
Language: English	Type of class: lecture + seminars
Credits: **5**	Extent, total hours: 30 + 15
Semester: October-February	Length of the semester (weeks): 15

Title of the class: **Seminar on Advanced Methods for Water Purification/Technological Water and Wastewater Utilization**	
Lecturer**: prof. Lucjan Pawłowski** **e-mail: l.pawlowski@wis.pol.lublin.pl**	
Key words: Water pollutants; ion exchange - principles, terminology, classification of ion exchangers and resins, equilibrium and kinetics, technologies, water deionisation, water softening, fibrous ion exchangers; Ion exchange membranes, liquid membranes, electrodialysis, micro-, ultra- and nanofiltration, reverse osmosis.	
Language: English	Type of class: seminars
Credits: **3**	Extent, total hours: 30
Semester: October-February	Length of the semester (weeks): 15

Title of the class: **Seminar on land use and conservation**	
Lecturer: **prof. Witold Stępniewski** **e-mail: w.stepniewski@wis.pol.lublin.pl**	
Keywords: Soil degradation (physical, chemical and biological), soil protection against erosion and other forms of degradation, soil reclimation, environmental oxygenology, landfill linering and capping, landfill recultivation, recultivation of open cast mines.	
Language: English	Type of class: seminar
Credits: **3**	Extent, total hours: 30
Semester: October-February	Length of the semester (weeks): 15

Title of the class: **Characteristic of water supply and sewage treatments systems (field studies)**	
Lecturer: **prof. Lucjan Pawłowski, mgr inż. Ewa Szkutnik** **e-mail: L.Pawlowski@wis.pol.lublin.pl**	
Keywords: Water intake station, pumping station, filters, water distribution systems control, sewage treatment plant, advanced nutrient removal, sludge management, drying beds/lagoons, air tight sealing.	
Language: English	Type of class: lecture +field exerc.
Credits: **5**	Extent, total hours: 15 + 30
Semester: October-February	Length of the semester (weeks): 15

Title of the class: **Environmental Law**	
Lecturer: **Steven M. Sherman, visiting professor** **e-mail: ssherman@kdlegal.com**	
Keywords: Case study class led by USA specialist of environmental law and energy law	
Language: English	Type of class: lecture + seminar
Credits: **3**	Extent, total hours: 30
Semester: October-February	Length of the semester (weeks): 15

New propositions :

Title of the class: **Computer Aided Designing – 2D vector graphics**	
Lecturer: **dr inż. Grzegorz Łagód, dr inż. Zbigniew Suchorab** **e-mail:** G.Lagod@wis.pol.lublin.pl Z.Suchorab@wis.pol.lublin.pl	
Keywords: Computer Aided Designing, two dimensional vector graphics, technical drawing, drawing of environmental engineering devices by CAD tools, AutoCad, Autodesk Building System.	
Language: English	Type of class: lecture + labs
Credits: **2+3**	Extent, total hours: 15 + 30
Semester:	Length of the semester (weeks): 15

Title of the class: **Computer Aided Designing – 3D vector graphics**	
Lecturer: **dr inż. Zbigniew Suchorab, dr inż. Grzegorz Łagód** **e-mail:** Z.Suchorab@wis.pol.lublin.pl G.Lagod@wis.pol.lublin.pl	
Keywords: Computer Aided Designing, three dimensional vector graphics, drawing of 3D environmental engineering devices by CAD tools, AutoCad, Autodesk Building System.	
Language: English	Type of class: lecture + labs
Credits: **2+3**	Extent, total hours: 15 + 30
Semester:	Length of the semester (weeks): 15

Title of the class: **Computer Aided Designing – mathematical support of designing, MathCAD**	
Lecturer: **dr inż. Marcin K. Widomski, dr inż. Zbigniew Suchorab,** **dr inż. Grzegorz Łagód** **e-mail:** M.Widomski@wis.pol.lublin.pl Z.Suchorab@wis.pol.lublin.pl G.Lagod@wis.pol.lublin.pl	
Keywords: Computer Aided Designing, mathematical support of designing, designing environmental engineering devices by CAD tools, MathCAD.	
Language: English	Type of class: lecture + labs
Credits: **2+3**	Extent, total hours: 15 + 30
Semester:	Length of the semester (weeks): 15