Description: Course type: project
Assessment: 1. Project of energy efficient building: plot plan, plans of the building, elevations, sections, perspective, model.
2. Control review.
Aims and objectives: Learning by designing
Teaching methods: Introducing general methods and rules of energy efficient architecture
Course content: Project of energy efficient building.
Learning outcomes: Traditional solutions, idea of energy efficient architecture, climate conditions, interior comfort, environmental relations, temperature zoning, energy gains and losses, balance of the building. Energy efficient technologies: transparent insulations, solar collectors, photovoltaic panels, wind turbines, heat pumps, recuperators, modern lighting systems, double-skin facade, energy accumulators, controlling devices, BMS (Building Management System) Basic economy of energy efficient technologies