بهشی زانست و تهندر وستی ژینکه نموه بو تاقیکر دنهوه ی توانای زانستی پیشکه شکارانی خویندنی بالا (ماستر)

1. Environmental Microbiology

- -Impacts of Microbes on Ecosystems?
- -Mycorrhizal fungi.
- -Actinomycetes.
- -Nitrogen fixation.
- -Environmental factors influence on aquatic microorganisms.
- -Water-associated diseases by microorganism.

2. Fresh water Ecology (Limnology and phycology)

- -Distribution of dissolved oxygen in lakes
- -Lake Origin
- -Thermal Stratification in Lake
- -Cyanophyta
- -Stream characteristics, Stream flow, Stream erosion and deposition
- -Origin, occurrences and movement of groundwater

3. Soil and Soil pollution

A/ Soil sciences

- 1. Physical properties (Soil pH and Buffer capacity, Soil texture, Soil profile and water content)
- 2. Chemical properties (Ion exchange, clay minerals, and organic matter)
- 3. Soil formation factors, processes and functions

B/ Soil pollution

- 1. Soil quality and degradation
- 2. The Soil Pollutants and their transformation and Metabolite Formation
- 3. Risks and Remedies

4. Water and Air pollution

- -Metals pollution
- -Organic degradation
- -Groundwater pollution
- -Role of biological agents in water pollution
- -Oil spills
- -Air pollution and its impact on health and environment

5. Waste management

- Management of Solid waste
- Wastewater Treatment (MW treatment system, sludge treatment and disposal, disinfection)
- Landfill (Leachate and gas production in landfill)
- Hazardous waste management
- Treatment of waste (thermal treatment, biological treatment and physical treatment)