

Bonsai (Specialization Landscape design, IVth Year of study, VIIIth Semester)

Credit value (ECTS): 4

Course category: mandatory

Course holder:

Assoc. Prof. PhD Elena Liliana CHELARIU

Discipline objectives (course and practical works)

- knowing and adequate utilisation of terms regarding bonsai art;
- knowing and understanding by students of the main bonsai styles;
- understanding and explanation of some physiological and bio-chemical processes specific to plants shaped into bonsai from;
- achievement of knowledge and abilities regarding bonsai forming and maintenance.

Contents (syllabus)

Course (chapters/subchapters)	
1. Brief history and styles in bonsai art	
1.1. History of bonsai art	
1.2. Design principles	
1.3. Styles and traditions in bonsai art	
2. Technology of vegetal material production for bonsai art	
2.1. Yamadori – vegetal material gathered from natural environment	
2.2. Multiplication of plants utilised for bonsai. 2.2.1. Multiplication by seeds. 2.2.2. Vegetative multiplication: cuttings, layering, grafting	
3. Works for forming and maintenance of bonsai	
3.1. Forming works: forming cuts, maintenance cuts, leaf adjustment, pinching of sprouts, rolling with wire	
3.2. Maintenance works: transplantation, wetting, fertilization, combating of pests and diseases, physiological maladies	
4. Bonsai in Romania	
4.1. Bonsai obtained from ornamental arbours and shrubs (<i>Abies, Picea, Pinus, Juniperus, Taxus, Acer, Aesculus, Betula, Carpinus, Fagus, Fraxinus, Malus, Morus, Platanus, Populus, Prunus, Pyracantha, Pyrus, Quercus, Salix, Tilia, Ulmus, Chaenomelis, Cotoneaster, Crataegus, Eleagnus, Euonymus, Syringa</i>)	
4.2. Bonsai obtained from ornamental species cultivated in protected spaces (<i>Azaleea, Bouganvilea, Camelia, Crassula, Citrus, Ficus, Fuchsia, Hedera, Hibiscus, Murraya, Nerium, Pelargonium, Punica, Schefflera</i>)	

Practical works

Identification and choosing of saplings trees from their natural environment (Yamadori) and the technique for their transplantation.
Multiplication by seeds: preparation of seeds, preparation of substrate, sowing, maintenance of sowings.
Vegetative multiplication: by cuttings, layers, grafting.
Soil mixtures. Pots and utensils utilised in bonsai art.
Formation technique and maintenance of bonsai.
Species of plants utilised in bonsai art.

Bibliography

Bradley S., 2007 – *T ierea plantelor ornamentale* (traducere). Ed. RAO, Bucure ti

- Buller Lew, 2005** - *Saikei and art – miniature landscapes*. Ed. Toppan Printing Company, Hong Kong.
- Chelariu Elena Liliana, 2015** –*Floricultur –plante de apartament*. Ed. Ion Ionescu de la Brad, Ia i.
- Coussins C., 2002** – *The Bonsai school*. Ed. Silverdale Books, Devon, United Kingdom.
- Draghia Lucia, 2000** – *Producerea materialului și ditor dendrologic*. Ed. Ion Ionescu de la Brad Ia i.
- Draghia Lucia, Chelariu Elena Liliana, 2011** – *Floricultur* . Ed. Ion Ionescu de la Brad, Ia i.
- Kawollek W., 2006** – *Bonsai pentru interioare* (traducere). Ed. MASAT, Bucure ti.
- Kohlhepp W., 2001** – *Bonsai pentru grădini și terase* (traducere). Ed. MASAT, Bucure ti.
- Lewis C., 2007** – *Bonsai a care manual*. Ed. Chancellor Press, London, United Kingdom.
- Norman K., 2008** – *The complete practical encyclopaedia of Bonsai*. Ed. Hermes House, London, UK.
- Tomlinson H., 2003** – *Bonsai – 101 informații esențiale* (traducere). Ed. Vox, Bucure ti.
- Tomlinson H., 2004** – *The Complete Book of Bonsai*. Ed. D.K., London, UK.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Course	Written colloquium	60 %
	Monitoring of attendance	10 %
Practical works	Evaluation during semester	30 %

Contact

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