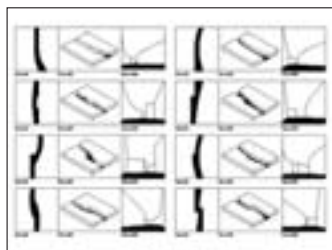
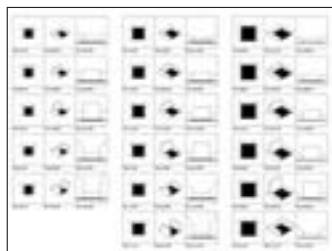
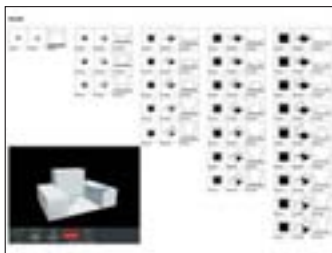


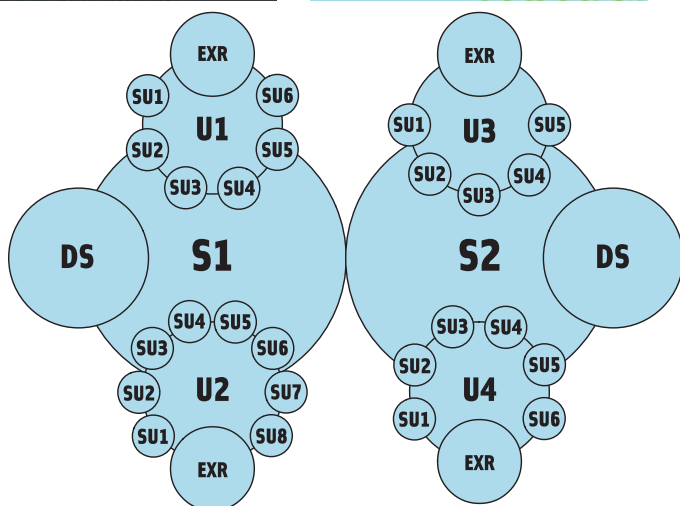
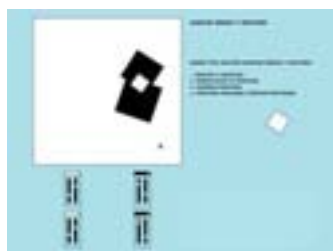
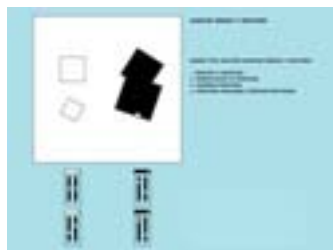
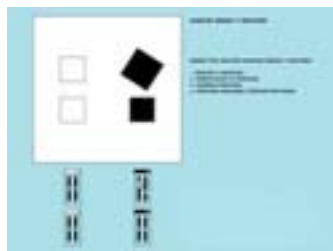
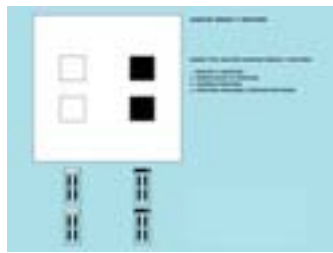
**knjižnica / library**  
"sense of spatiality recorder"



**knjižnica / library**  
"generative processor"



**vaje / exercises**  
"sense of place play-station"



**Arhitektura strnjenege mesta (S1)**  
 1. enota: Mesto kot sistem krajev (U1)  
 2. enota: Mesto kot struktura prostorov (U2)  
 3. enota: Regeneriranje strnjenege mesta (projektni studio - DS)  
*Architecture of the compact city (S1)*  
 1. unit: City as system of places (U1)  
 2. unit: city as structure of spaces (U2)  
 3. unit: regenerating the compact city (design studio - DS)

**Arhitektura razpršenege mesta (S2)**  
 1. enota: Mesto kot urbana krajina (U3)  
 2. enota: Mesto kot odprta struktura (U4)  
 3. enota: Generiranje razpršenege mesta (projektni studio - DS)  
*Architecture of the dispersed city (S2)*  
 1. unit: City as urban landscape (U3)  
 2. unit: City as open structure (U4)  
 3. unit: Generating the dispersed city (design studio - DS)

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 spletni naslov: <http://predmet.arh.uni-lj.si/siwinds>

# SIWINDS - POSTAVITEV PREDMETA ARHITEKTURA MESTA NA INTERNETU *SIWINDS - POSITIONING THE SUBJECT URBAN DESIGN ON THE INTERNET*

raziskava, research

## povzetek

SIWINDS je podprojekt krovnega projekta WINDS, Virtualne evropske fakultete za arhitekturo, gradbeništvo in okoljsko inženirstvo na medmrežju. Cilj projekta SIWINDS je vzpostavitev sistema WINDS v okviru študijskega programa Fakultete za arhitekturo v Ljubljani. Vzpostavitev sistema obsega digitalizacijo študijskega gradiva iz analognih medijev in obdelavo študijskega gradiva za uporabo na Internetu. V operativnem smislu to pomeni naslednje aktivnosti:

1. priprava specialnih orodij za izvajanje on-line opravljanja vaj iz novega programa predmeta Urbanistično projektiranje,
2. priprava specialnih orodij za poučevanje digitalnih metod projektiranja in uporabe informacijskih tehnologij,
3. razvoj in oblikovanje uporabniškega vmesnika, organizacija študijskega gradiva, instrumentov orodij in pedagoških postopkov v interaktivno študijsko platformo,
4. testiranje delovanja sistema SIWINDS v študijskem procesu oz. projektnih delavnicah v okviru programa FA.

Z uporabo dostopnih programov smo razvili naslednja orodja za strateško načrtovanje in urbanistično projektiranje:

1. "datascape interpretator": orodja za manipulacijo relevantnih informacij: stratifikacija in superpozicija layerjev,
2. "sense of place play-station": orodja za hitro in nezahtevno raziskovanje likovnih kompozicij,
3. "sense for spatiality recorder": prikazovalniki za preizkušanje različnih prostorskih situacij in merjenje razmerij,
4. "lego assembler": CAD orodje za testno vnašanje, prilagajanje in agregiranje 3D objektov,
5. "generative processor": FLASH 5 animirana knjižnica različnih urbanih učinkov oz. operacij postavitve elementov, ki služi za simulacijo porajanja različnih urbanih stanj.

## doseženi cilji, namen in rezultati

Cilj projekta SIWINDS je podpreti z novimi didaktičnimi in operativni orodji novo zasnovan predmet Urbanistično projektiranje. Novo postavljen predmet sestavljata dva samostojna vsebinska sklopa (section) Arhitektura strnjenege mesta in Arhitektura razpršenega mesta, ki naj odgovarjata dvojnosti sodobnega mesta.

## problematika v arhitekturi, umestitev obravnavane teme v te tokove in njen pomen

V informacijski družbi sta proces dela in učenja neločljivi dejavnosti, isto velja za spoznavni in ustvarjalni proces v postopku projektiranja. Zato je bil poseben napor pri razvoju predmeta usmerjen k temu, kako čimbolj poenostaviti logistiko učenja, prilagojeno specifičnemu on-line okolju. Za komunikacijo med profesorjem in študenti smo razvili vmesnik z učinkovitimi rešitvami samo-preverjanja, ki temeljijo na ustvarjanju v variantah in primerjalnemu samo-vrednotenju, na metodah learning-by doing in multiple-choice testiranju danih možnosti.

## ključne besede

SIWINDS, on-line Urbanistično projektiranje, orodja za študij projektiranja na daljavo, strnjeno in razpršeno mesto

## summary

SIWINDS is a sub-project under the umbrella of the project WINDS the virtual European faculty for architecture, civil engineering and environmental engineering on the web. The SIWINDS project's goal is to set up the WINDS system within the framework of the study course at the Faculty of architecture in Ljubljana. Establishment of the system includes digitalisation of study material from analogous media and preparation of study material for use on the Internet. In the operative sense the following activities are implied:

1. Devising special tools for implementing on-line execution of exercises according to the new programme of the Subject ;
2. Devising special tools for teaching digital design methods and the use of information technology;
3. Development and design of a user interface, organisation of study material, instruments and tools, as well as teaching procedures on the interactive study platform;
4. Testing the SIWINDS system operation in the study process and design workshops within the Faculty's programme.

By using available programmes we developed the following tools for strategic planning and urban design:

1. "Datascape interpreter": tool for manipulating relevant data: stratification and super-positioning layers;
2. "Sense of place play-station": tool for quick and simple research of artistic composition;
3. "Sense for spatiality recorder": displays for testing different spatial conditions and measuring relations;
4. "Lego assembler": CAD tool for pilot input, adaptation and aggregation of 3D objects;
5. "Generative processor": FLASH 5 animated library of various urban effects and operations for positioning elements.

## intentions, goals and results

*The SIWINDS project's goal is to support the new course subject Urban design with new didactic and operative tools. The new subject's content is composed of two independent sections: architecture of the compact city and architecture of the dispersed city, which should correspond to the contemporary city's duality.*

## architectural issues, positioning the topic in ongoing debate and its' significance

*Processes of work and learning are inseparable activities in the information society and the same applies to cognitive and creative processes in design procedures. For this reason, special effort in the project's development was directed towards responding to the issue, how to simplify teaching logistics adapted to the specific on-line environment. For communication between professors and students we devised an interface with efficient self-testing solutions that are based on designing in variations and comparative self-evaluation, learning-by-doing methods and multiple-choice testing of given possibilities.*

## key words

SIWINDS, on-line Urban Design, remote design teaching, compact and dispersed city