

Struttura Didattica Speciale di Architettura

School of Architecture

Syracuse - Sicily - Italy

BUILDING DATA

Building Typology:.....Building with Inner Courtyard

Owner:.....Italian State
Military Government Property

Primal Function:.....Barracks

Tenant:.....University of Catania

Present Function:.....School of Architecture

Legal Claim:...Public Licence of Free Loan for Perpetual Use

Building Characteristics

Number of Floors: - Underground Floors
3 Aboveground Floors

Courtyard: 1740 m²

Bearing Structure: Stonework Masonry

Number of Exterior Façades: 4

Vertical Closures: Wooden Doors and Windows

Number of Façades in the Courtyard: 4

Horizontal Closures: Wooden Trussed Roof

Maximum Height: 16 m

Vertical Interior Partitioning: Hollow Block Masonry

Useful Volume: 8433 m³

Horizontal Partitions: Beam-and-Block floor

Covered Area: 2028 m²

Inclined Partitions: Armoured Concrete Stairs

Activities and Dimensions

EDUCATION

Lecture Room - Drawing Room.....1236 m²

Computer Laboratory.....157 m²

RESEARCH

Office of Professors and Researchers.....748 m²

ADMINISTRATION

Directional, administrative, accounts and public relations offices.....185 m²

NUMBER of USERS

Professors/Researchers:.....39 Office worker:.....19

Students:.....1098 Custodian:.....7



Exterior façades



Lecture Room S

Fig. 2-a

RELATIONSHIP MATRIX

Fig. 2-b

			Efficiency status required to the room: LECTURE ROOM S																						
			Needs' significance	Efficiency of floor slabs	Efficiency of floor	Efficiency of false ceiling	Efficiency of partition walls	Efficiency of wall finishing	Efficiency of window frames	Efficiency of transparent panes	Efficiency of opaque panes	Efficiency of the obscuration system	Efficiency of the windows' maneuver system	Efficiency of the window's joints	Efficiency of door frames	Efficiency of the door's maneuver system	Efficiency of the door's joints	Efficiency of the doors' infill system	Efficiency of the electrical system	Efficiency of the video projection system	Efficiency of the audio system				
				1st level Class of needs	2nd level Class of needs	3rd level Class of needs	3	4	5	3	4	5	3	4	5	3	4	5	3	4	5	3	4	5	
				1st level Class of needs	2nd level Class of needs	3rd level Class of needs	3	4	5	3	4	5	3	4	5	3	4	5	3	4	5	3	4	5	
SAFETY	Protection of the Users	Roughness control	3																						
		Protection from falls	4																						
		Protection from shocks	5																						
		Electric insulation	5																						
		Easiness in integration	3																						
	Steadiness	Easiness in assembly/disassembly	3																						
		Reliability	3																						
		Resistance to static loads	4																						
		Resistance to dynamic loads	4																						
	Fire Protection	Resistance to impact	4																						
No emission of harmful substances		4																							
Limiting fire-propagation		3																							
Identifiability of escape routes		5																							
Tight	Safety of escape routes	5																							
	Fire resistance	4																							
	Heat-loss control	1																							
COMFORT	Thermal and Hygrometric Comfort	Waterproofing	3																						
		Airproofing	2																						
		Control of the solar radiation	4																						
	Visual Comfort	Thermal insulation	1																						
		Ventilation	4																						
		Control of the artificial lighting	5																						
Acoustic Comfort	Control of the natural lighting	5																							
	Visibility of the speaker	5																							
	Noise control	4																							
	Control of audibility teacher / student	5																							
USABILITY	Flexibility of space	Sound-proofing from external noise	4																						
		Noise reduction	3																						
		Control of audibility teacher / student	5																						
	Flexibility of finishes and mechanical elements	Capability of being equipped	3																						
		Comfort of use and maneuvering	3																						
Accessibility and practicability	Clearness of maneuvers	5																							
	Adjustability	3																							
	Accessibility	5																							

Importance degree of the efficiency status required to the room:
LECTURE ROOM 404 436 317 318 134 411 311 183 491 368 236 449 335 304 265 537 273 306