ARCHITECTURAL THEORIES

Residential Buildings

Dr. Kamal Mahmoud Elgabalawy Dr. Rasha Mohammed Shaban

مادة تاريخ ونظريات العمارة (٢-ب)

الفرقة الثانية - الترم الثاني - ٢٠٢٠

كود المادة: ع ١٢٣٢

د.م/ كمال محمود الجبلاوي د.م/ رشا محمد شعبان

The references to multiple sources are text & figures (sketches, drawings, pictures, photos,...etc.)

All the rights belong to original authors





Residential Buildings: المباني السكنية



Types Of Housing: أنواع السكن

- By Land Ownership من خلال ملكية الأرض (Rent Property, Ownership) ايجار/ تمليك
- حسب الموقع By location حسب الموقع (countryside, cites) بالمدينة الحضرية/ الريف
- •By height من خلال الأرتفاع (Multi-Storey Housing, Low-Rise Residential) متعدد الطوابق/ منخفض الأرتفاع
- من خلال التصميم By Design•



1. Bachelor Apartment:

شقة ستوديو متعددة الأستعمال

- 2. Junior Apartment
- 3. Condo
- 4. Duplex House, Apartment
- 5. Detached House
- 6. Semi-detached House
- 7. Townhouse



- 1. Bachelor Apartment
- 2. Junior Apartment

شُقة لزوجين مبتدئين

- 3. Condo
- 4. Duplex House, Apartment
- 5. Detached House
- 6. Semi-detached House
- 7. Townhouse





- 1. Bachelor Apartment
- 2. Junior Apartment
- 3. Condo
- شقة عائلية
- 4. Duplex House, Apartment
- 5. Detached House
- 6. Semi-detached House







- 1. Bachelor Apartment
- 2. Junior Apartment
 - . Condo
- 4. Duplex House, Apartment
- فيلا دورين بعمارة سكنية
- 5. Detached House
- 6. Semi-detached House
- 7. Townhouse



DUPLEX

12-0 X 12-0

DONESHED PORCH 126 X 120



- 1. Bachelor Apartment
- 2. Junior Apartment
- 3. Condo
- 4. Duplex House, Apartment
- 5. Detached House
- 6. Semí-detached House
- فيلا أو بيوت شبه منفصلة
- 7. Townhouse









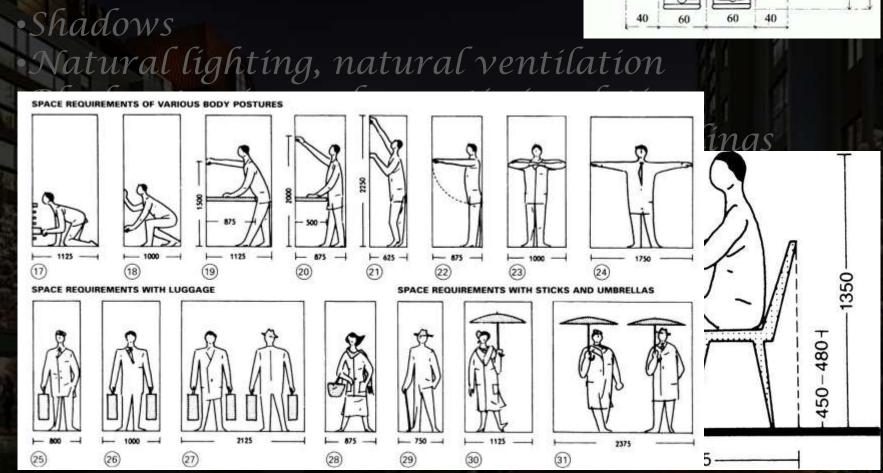
- 1. Bachelor Apartment
- 2. Junior Apartment
- 3. Condo
- 4. Duplex House, Apartment
- 5. Detached House
- 6. Semi-detached House
- 7. Townhouse

فيلات أو بيوت متصلة





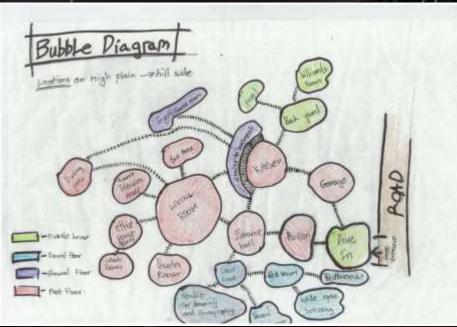
- •constructive program
- ·Functional relationships
- Solarisation



- •constructive program
- Functional relationships
- Solarisation
- ·Shadows
- ·Natural lighting, natural ventilation
- ·Block out noise and acoustic insulation
- •Thermal properties of the walls and ceilings

· Fire protection





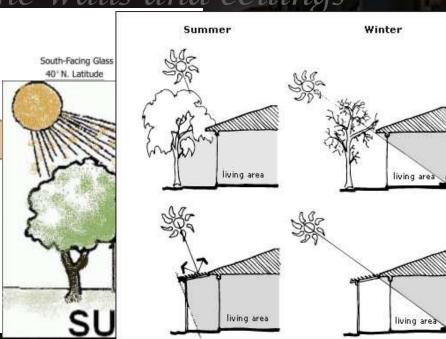
- •constructive program
- ·Functional relationships
- Solarisation
- ·Shadows



·Block out noise and acoustic insulation

Thermal properties of the walls and ceilings

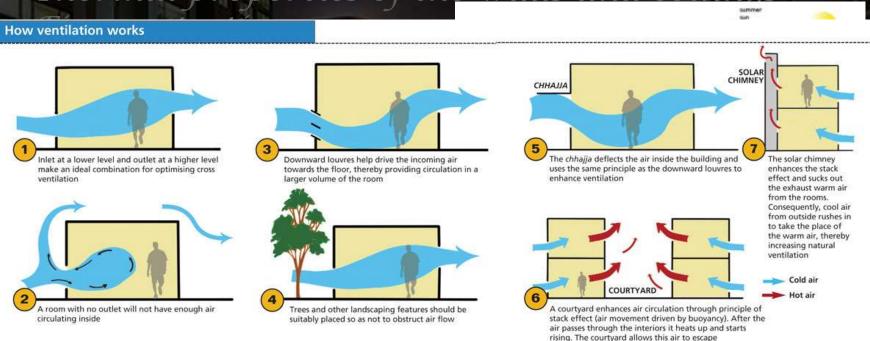




Sun's path in summer

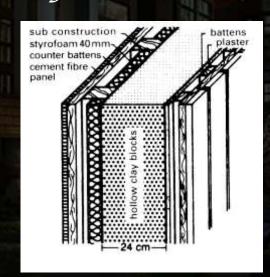
Sun's path in spring and fall
Sun's path in winter

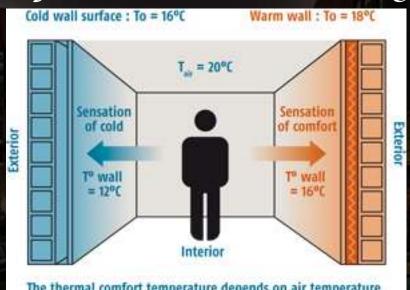
- •constructive program
- ·Functional relationships
- · Solarisation
- ·Shadows
- •Natural lighting, natural ventilation
- Block out noise and acoustic insulation
- ·Thermal properties of the walls and ceilings



- •constructive program
- Functional relationships
- ·Solarisation
- ·Shadows
- ·Natural lighting, natural ventilation
- ·Block out noise and acoustic insulation
- •Thermal properties of the walls and ceilings

• Fire protection





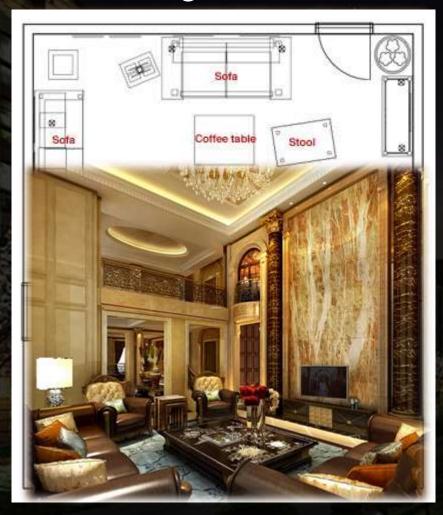
The thermal comfort temperature depends on air temperature and wall temperatures.

Components of residential buildings: مكونات المباني السكنية

- Entrances + Lobby: بهو المدخل
- معيشة: Living Room
- Reception Hall: صالون
- Bedrooms: غرف النوم
- Master bedroom: غرفة نوم رئيسية
- Children's room: غرف نوم أطفال
- Library : مكتبة
- Music Hall: مكان للموسيقى
- Bathrooms:
- Balcony: بلكونات
- Parking: جراج
- Gardens : حدائق

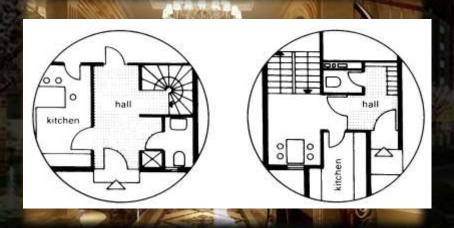


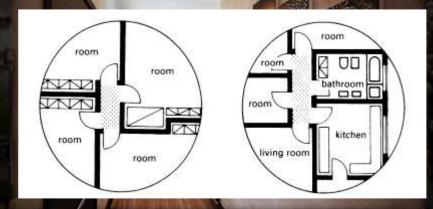
Living Room















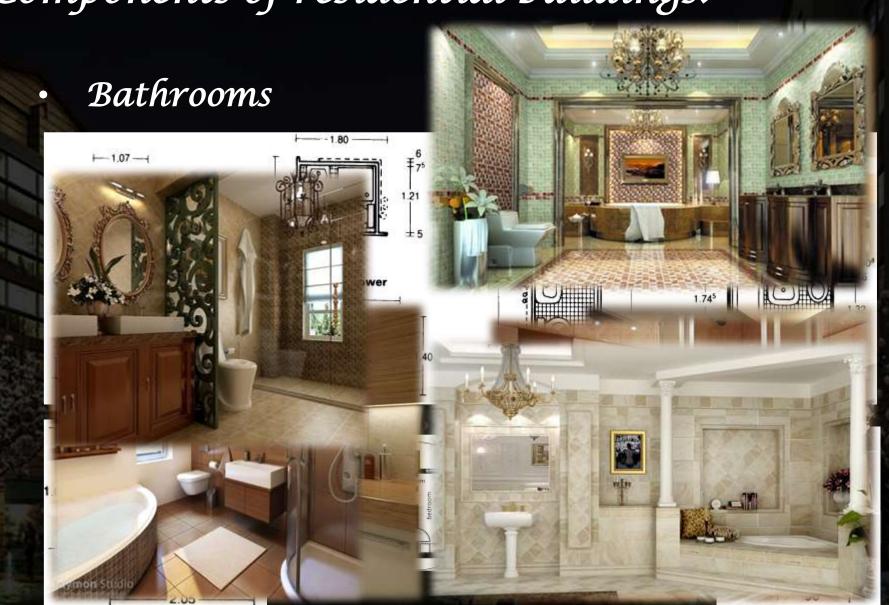








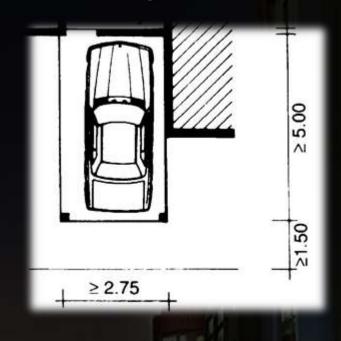






Garage









ARCHITECTURAL THEORIES

Residential Buildings

Dr. Kamal Mahmoud Elgabalawy Dr. Rasha Mohammed Shaban

مادة تاريخ ونظريات العمارة (٢-ب)

الفرقة الثانية - الترم الثاني - ٢٠٢٠

كود المادة: ع ١٢٣٢

دم كمال محمود الجبلاوي دم رشا محمد شعبان

THE REFERENCES TO MULTIPLE SOURCES ARE TEXT & FIGURES

(SKETCHES, DRAWINGS, PICTURES, PHOTOS,...ETC.)

ALL THE RIGHTS BELONG TO ORIGINAL AUTHORS