

**INAR 325: BUILDING SERVICES**

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**HOMEWORK 1: ARCHITECTURAL PROGRAMMING TABLE**

**HOMEWORK-1 DUE: 31 OCT 2019**

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For this homework you should;

List **all different spaces** in your INARxxx Design Studio Project and prepare a TABLE to give information for each different space on aspects such as;

- Spatial Requirements
  1. Function of space
  2. Area in m2
  3. Height
  4. Volume in m3
  5. User density (how many people will use this space)
  6. Relationship between neighbouring spaces
- Indoor Environmental Quality Requirements
  1. Thermal Req.
  2. Lighting Req.
  3. Acoustical Req.
  4. Air Quality and Ventilation Req.
  5. Humidity Req.
- Building Service Requirements
  1. Plumbing Req. (clean/waste water, natural gas necessities)
  2. Electrical Req.
  3. Special Architectural Elements (fireplace, water features, skylights...etc.)
- HARD AND SOFT COPY OF YOUR TABLE ON **A4** FORMAT (example of a table is given).
- This homework constitutes **%5 of your final grade!**

| REQUIREMENTS        |                                      | SPACE NAMES |  |  |  |  |  |  |  |
|---------------------|--------------------------------------|-------------|--|--|--|--|--|--|--|
|                     |                                      |             |  |  |  |  |  |  |  |
| SPATIAL REQ.        | 1. Function                          |             |  |  |  |  |  |  |  |
|                     | 2. m2                                |             |  |  |  |  |  |  |  |
|                     | 3. Height                            |             |  |  |  |  |  |  |  |
|                     | 4. m3                                |             |  |  |  |  |  |  |  |
|                     | 5. User density                      |             |  |  |  |  |  |  |  |
|                     | 6. Neighbouring spaces               |             |  |  |  |  |  |  |  |
| INDOOR ENV. REQ.    | 7. Thermal Req.                      |             |  |  |  |  |  |  |  |
|                     | 8. Lighting Req.                     |             |  |  |  |  |  |  |  |
|                     | 9. Acoustical Req.                   |             |  |  |  |  |  |  |  |
|                     | 10. Air Quality and Ventilation Req. |             |  |  |  |  |  |  |  |
|                     | 11. Humidity Req.                    |             |  |  |  |  |  |  |  |
| BUILDING SERV. REQ. | 12. Plumbing Req.                    |             |  |  |  |  |  |  |  |
|                     | 13. Electrical Req.                  |             |  |  |  |  |  |  |  |
|                     | 14. Special Architectural Elements   |             |  |  |  |  |  |  |  |

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**HOMEWORK 2: CIRCULATION PATTERN**

**HOMEWORK-2 DUE: 31 OCT 2019**

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Draw the circulation project of your INARxxx Design Studio Project:

1. **Draw circulation scheme in color**
2. **Identify circulation pattern and types in your scheme**
3. **Identify mechanical circulation elements and types in your scheme**

- HARD AND SOFT COPY OF YOUR TABLE ON **A4** FORMAT
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## HOMEWORK 3: HANDICAPPED BATHROOM

## HOMework-3 DUE: 12 DEC 2019

- You should research about handicapped bathrooms and;
- Draw plan and 2 sections in 1/20 OR 1/50 scale of your handicapped bathroom in your INARXXX Design Project with proper detailing and material selection.
- HARD AND SOFT COPY OF YOUR TABLE ON **A3** FORMAT
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GOOD LUCK ☺

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**HOMEWORK 4: INDUSTRIAL KITCHEN**

**HOMEWORK-4 DUE: 12 DEC 2019**

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- You should research about industrial kitchens in café or restaurants
- Analyze and sketch your kitchen in your INARXXX Design Project considering 4 factors:
  1. Type
  2. Working triangle and distances
  3. Working zones
  4. Dimensions (doors, counter top, cabinets, etc.)
- HARD AND SOFT COPY OF YOUR TABLE ON **A4** FORMAT
- This homework constitutes **%5 of your final grade!**