

# MIPET



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# MIPET TEMPLATE



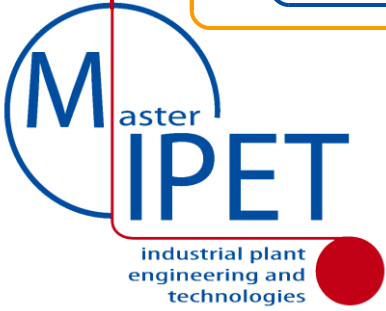
Prof. A.G. Bruzzone  
MIPET Director

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# Regular Slide

- Please use this as Template for Presentation at MIPET
- Review the Teacher Guidelines and Handbook (download it from [www.itim.unige.it/mipet](http://www.itim.unige.it/mipet))
- Use English
- Introduce the topics and proceed clearly
- Present clearly your points with description of each acronym (i.e. R&D\*)
- Introduce Your Contacts at the End as well as Technical and Scientific References
- Prepare a Version of your Presentation to be available for students in Web Repository, so clean it up from any sensible, confidential or classified data



\* R&D Research and Development



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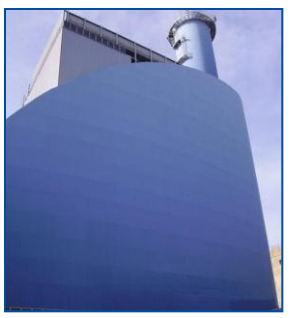
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# Put Images for Explaining your concepts

Jack Welch (GE CEO 1981-2001 from \$14 billions market value to over \$410 billions): Globalization has changed us into a company that searches the world, not just to sell or to source, but to find Intellectual Capital - the World's Best Talents and Greatest Ideas



Scientists investigate that which already is; Engineers create that which has never been  
*Albert Einstein (Physics Nobel Prize 1921, Princeton University)*

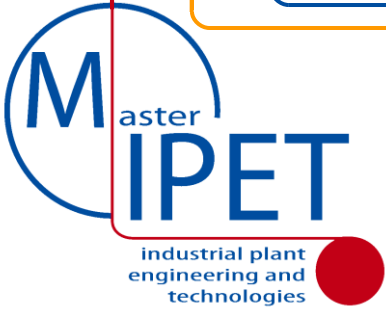


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# Provide Figures & Schemes when Required

## Educational Framework



**Basic Modules**  
~80 hours



**Operative Modules**  
~180 hours



**Thematic Modules**  
~160 hours



**Internship**  
~400 hours

420 hours as Classroom Lectures

400 hours as Project Work



The Education framework of MIPET is focusing on industrial plant engineering and technologies by adopting different methods such as lectures, case study, exercises, common experiences, RPG (Role Play Games), simulations, use of models and software tools, interactive blended education (i.e. clickers), industrial plant guided visits and R&D\* Lab experiences

\* R&D Research & Development



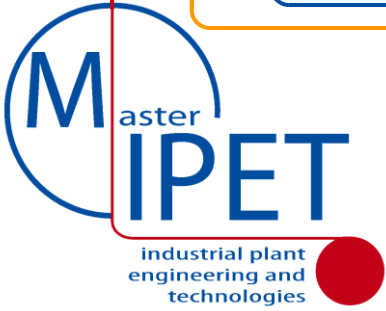
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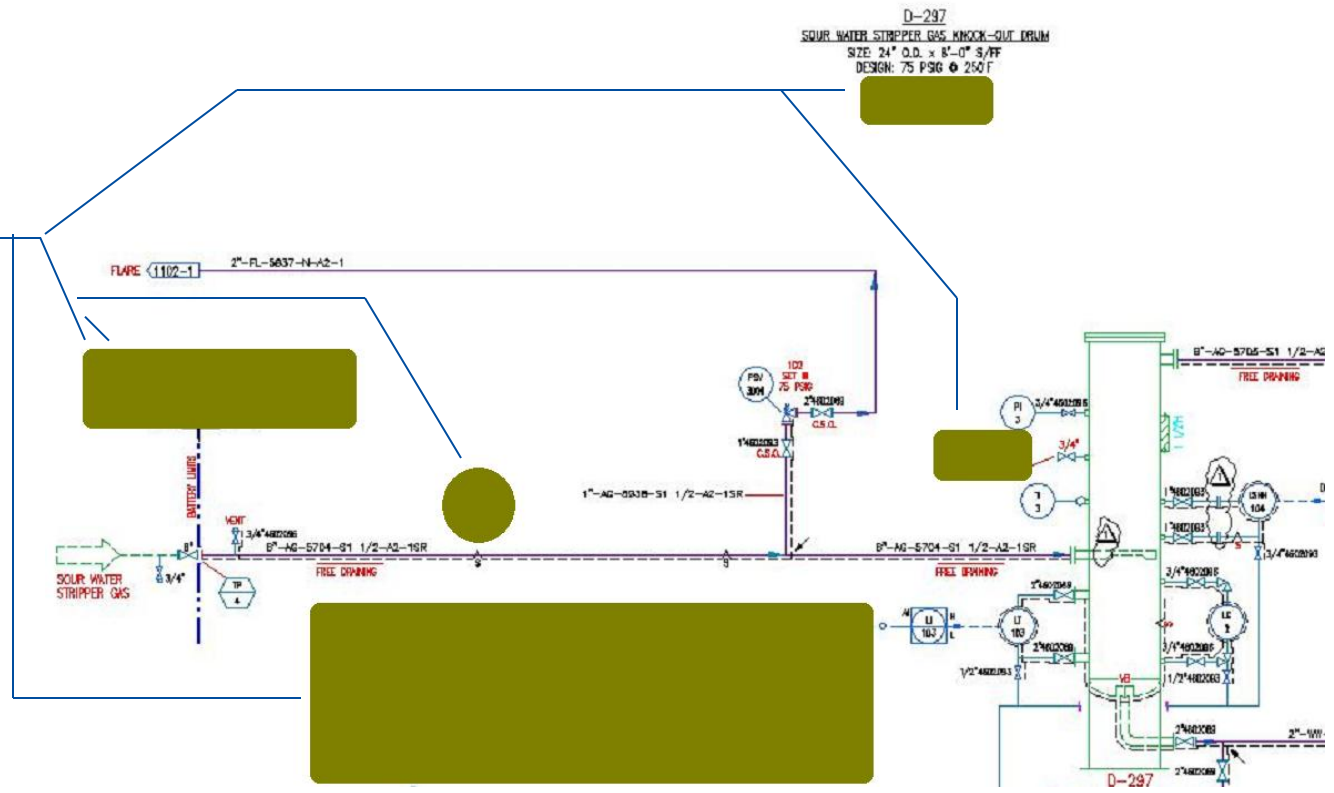
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# Provide Drawing when Appropriate

You are entitled to Clean up your Material for Confidentiality or Clearance



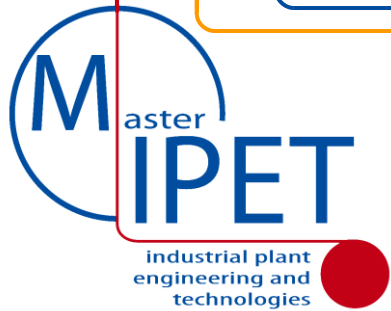
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# Use Formulas and Graphs when Required

$$\begin{aligned} \rho &= 1.325 \rho_{in\ Hg} / T_R \\ &= 2.7 \rho_{psia} / T_R \\ &= 2.7 (\rho_{psig} + 14.7) / (T_F + 459.7) \quad (1) \end{aligned}$$

where

$\rho$  = density (lb/ft<sup>3</sup>)

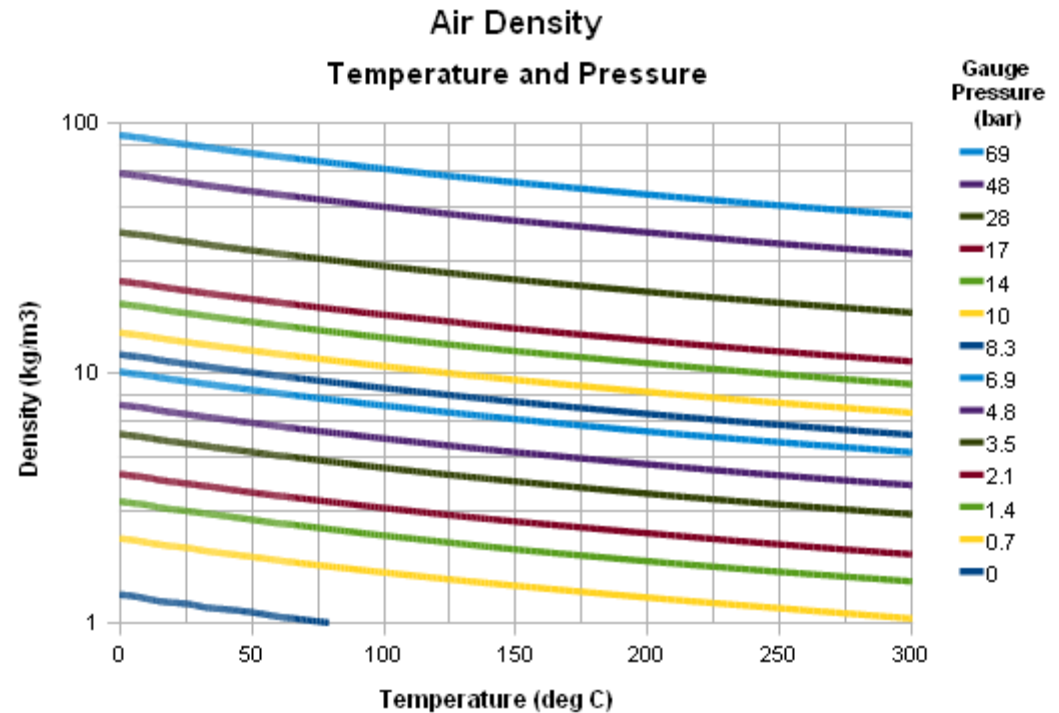
$\rho_{in\ Hg}$  = absolute pressure (inches Hg)

$T_R$  = absolute temperature (Rankine)

$\rho_{psia}$  = absolute pressure (psia)

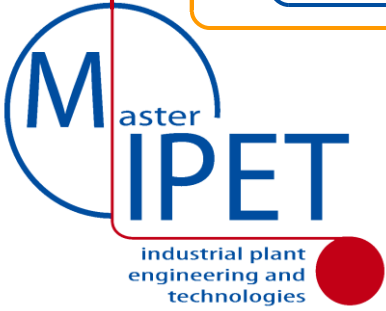
$\rho_{psig}$  = gage pressure (psig)

$T_F$  = temperature (°F)



Remember unit of measures in your Presentations when applicable and when they don't violate confidential nature of the graph/data





# Provide Tables when Useful

| Density of air <sup>1)</sup> (lb/ft <sup>3</sup> ) |                      |       |       |       |       |       |       |       |       |       |       |       |
|--|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Air temperature (°F)                               | Gauge Pressure (psi) |       |       |       |       |       |       |       |       |       |       |       |
|  | 0                    | 5     | 10    | 20    | 30    | 40    | 50    | 60    | 70    | 80    | 90    | 100   |
| 30   | 0.081                | 0.109 | 0.136 | 0.192 | 0.247 | 0.302 | 0.357 | 0.412 | 0.467 | 0.522 | 0.578 | 0.633 |
| 40   | 0.080                | 0.107 | 0.134 | 0.188 | 0.242 | 0.295 | 0.350 | 0.404 | 0.458 | 0.512 | 0.566 | 0.620 |
| 50   | 0.078                | 0.105 | 0.131 | 0.185 | 0.238 | 0.291 | 0.344 | 0.397 | 0.451 | 0.504 | 0.557 | 0.610 |
| 60   | 0.076                | 0.102 | 0.128 | 0.180 | 0.232 | 0.284 | 0.336 | 0.388 | 0.440 | 0.492 | 0.544 | 0.596 |
| 70   | 0.075                | 0.101 | 0.126 | 0.177 | 0.228 | 0.279 | 0.330 | 0.381 | 0.432 | 0.483 | 0.534 | 0.585 |
| 80   | 0.074                | 0.099 | 0.124 | 0.174 | 0.224 | 0.274 | 0.324 | 0.374 | 0.424 | 0.474 | 0.524 | 0.574 |
| 90   | 0.072                | 0.097 | 0.121 | 0.171 | 0.220 | 0.269 | 0.318 | 0.367 | 0.416 | 0.465 | 0.515 | 0.564 |
| 100  | 0.071                | 0.095 | 0.119 | 0.168 | 0.216 | 0.264 | 0.312 | 0.361 | 0.409 | 0.457 | 0.505 | 0.554 |
| 120  | 0.069                | 0.092 | 0.115 | 0.162 | 0.208 | 0.255 | 0.302 | 0.348 | 0.395 | 0.441 | 0.488 | 0.535 |
| 140  | 0.066                | 0.089 | 0.111 | 0.156 | 0.201 | 0.246 | 0.291 | 0.337 | 0.382 | 0.427 | 0.472 | 0.517 |
| 150  | 0.065                | 0.087 | 0.109 | 0.154 | 0.198 | 0.242 | 0.287 | 0.331 | 0.375 | 0.420 | 0.464 | 0.508 |
| 200  | 0.060                | 0.081 | 0.101 | 0.142 | 0.183 | 0.225 | 0.265 | 0.306 | 0.347 | 0.388 | 0.429 | 0.470 |
| 250  | 0.056                | 0.075 | 0.094 | 0.132 | 0.170 | 0.208 | 0.246 | 0.284 | 0.322 | 0.361 | 0.399 | 0.437 |
| 300  | 0.052                | 0.070 | 0.088 | 0.123 | 0.159 | 0.195 | 0.230 | 0.266 | 0.301 | 0.337 | 0.372 | 0.408 |
| 400  | 0.046                | 0.062 | 0.078 | 0.109 | 0.141 | 0.172 | 0.203 | 0.235 | 0.266 | 0.298 | 0.329 | 0.360 |
| 500  | 0.041                | 0.056 | 0.070 | 0.098 | 0.126 | 0.154 | 0.182 | 0.210 | 0.238 | 0.267 | 0.295 | 0.323 |
| 600  | 0.038                | 0.050 | 0.063 | 0.089 | 0.114 | 0.140 | 0.165 | 0.190 | 0.216 | 0.241 | 0.267 | 0.292 |

1 Put additional information if required to avoid misunderstandings



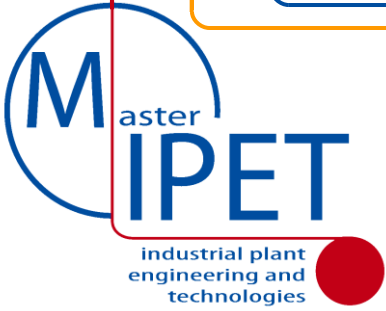
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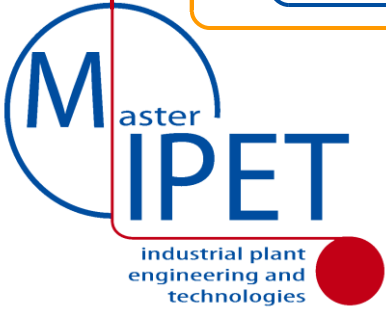


# Summarizing

- Remember to summarize your presentation at the end
- Please invite people to interact and to propose questions
- Teachers are invited to dedicate 14 minutes at the end of the lecture for asking, around the table, to each student to report you back in English his synthetic feedback







# Example of Technical & Scientific References



- Arcibald R.D. (1994) "Project management. La gestione di progetti e programmi complessi", Franco Angeli, Milan
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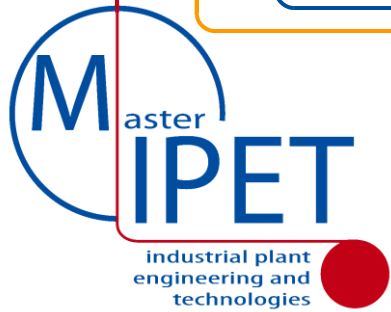
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# Example of Point of Contact

[www.itim.unige.it/mipet](http://www.itim.unige.it/mipet)  
[mipet@itim.unige.it](mailto:mipet@itim.unige.it)



**Dr. Sam Spade**  
P.I.  
*Columbus Circus, NYC*  
Email [Ss@pi.nyc.edu](mailto:Ss@pi.nyc.edu)  
URL [www.pi.nyc.edu](http://www.pi.nyc.edu)

