

## Undergraduate Course in Shipbuilding Technology

FATEC: Jahu

| 1st. Term                                 | 2nd. Term                                     | 3rd. Term                                 | 4th. Term                          | 5th. Term                                                   | 6th. Term                                        |
|-------------------------------------------|-----------------------------------------------|-------------------------------------------|------------------------------------|-------------------------------------------------------------|--------------------------------------------------|
| Concepts on Multiple Uses of Waters (2)   | Fluvial and Offshore Works (2)                |                                           | Structural Strength of Vessels (4) | Shipbuilding Methods and Construction Site Organization (4) | Tests and Trials (4)                             |
| Aspects of Navigation (4)                 | Shipbuilding Materials I (4)                  | Shipbuilding Materials II (4)             | Thrusters (4)                      | Propelling and Process- Driving Systems (4)                 | Shipbuilding Project Planning and Management (4) |
| Machinery Workshop (4)                    | Machinery Elements (2)                        | Internal Combustion Engines (2)           | Vessels Project II - (PRO II) (4)  | Vessels Project III - Technical Project (4)                 | Vessels Project IV - Structural Detailing (4)    |
| Technical Design (2)                      | Shipbuilding Architecture (4)                 | Vessels Project I - Arranjos (4)          |                                    |                                                             |                                                  |
| Mathematics for Shipbuilding I (4)        | Mathematics for Shipbuilding II (4)           | Statics and Dynamics of Vessels (4)       | Computer Mathematics (2)           | Vibrations (2)                                              | Technical Standards on Shipbuilding (2)          |
| Physics I (4)                             | Physics II (4)                                | Mechanics of Solids (4)                   | Services Network (4)               | Vessels Electrical Grid (2)                                 |                                                  |
| Informatics Applied to Shipbuilding I (4) | Fluid Mechanics (4)                           | Hydrodynamics (4)                         | Cutting and Welding Technology (4) | Automation and On-board Systems (4)                         |                                                  |
| Business Communication (2)                | Computer Graphics Applied to Shipbuilding (2) | Shipbuilding Organization and Methods (2) | Electricity (4)                    | Informatics Applied to Shipbuilding Projects (4)            |                                                  |
| English Language I (2)                    | English Language II (2)                       | English Language III (2)                  |                                    | Quality in Shipbuilding (2)                                 | Personnel Management for Shipbuilding (2)        |
| Classes: Weekly 28 Term 560               | Classes: Weekly 28 Term 560                   | Classes: Weekly 26 Term 520               | Classes: Weekly 28 Term 560        | Classes: Weekly 26 Term 520                                 | Classes: Weekly 16 Term 320                      |

Curricular Internship: 240 hours

### DISTRIBUIÇÃO DAS AULAS POR EIXO FORMATIVO

| Disciplinas BÁSICAS                       | Aulas      | %           | Disciplinas PROFISSIONAIS                     | Aulas       | %           |
|-------------------------------------------|------------|-------------|-----------------------------------------------|-------------|-------------|
| Comunicação em Língua Portuguesa          | 40         | 1,3         | Materiais, Máquinas e Métodos construtivos    | 800         | 26,3        |
| Comunicação em Língua estrangeira: Inglês | 160        | 5,3         | Arquitetura e Projetos                        | 440         | 14,5        |
| Matemática                                | 200        | 6,6         | demais Específicas da tecnologia do curso     | 600         | 19,7        |
| Física                                    | 160        | 5,3         | Física Aplicada (Elettric., Mec. e Hidromec.) | 320         | 10,5        |
|                                           |            |             | Gestão                                        | 120         | 3,9         |
|                                           |            |             | Informática e Computação Gráfica              | 200         | 6,6         |
| <b>TOTAL</b>                              | <b>560</b> | <b>18,4</b> | <b>TOTAL</b>                                  | <b>2480</b> | <b>81,6</b> |

### RESUMO DE CARGA HORÁRIA:

**3040 aulas → 2533 horas (atende ao CNCST e ao CEE-SP) +  
240 horas de Estágio Curricular = 2773 Horas**