



Grzegorz Banaszek, MSc
Dean's Proxy for Internship
Course: Mechanics and Machine Construction

Framework internship program
for the Faculty of Mechanical Engineering and Ship Technology,
for the students of Mechanics and Machine Construction 1st degree engineering course

The framework internship program is compliant with the assumed effects of education approved by the Senate of Gdańsk University of Technology. Company's internship supervisor prepares an "Individual internship plan for a given intern" which is attached to the intern's referral.

- I. Internship plan must contain at least **three selected tasks** from the block of technical-engineering skills specified below:
- 1. Research, design, construction and operation of machines and their elements.
 - 2. Research, design, construction and operation of machines and stationary objects.
 - 3. Research, design, construction and operation of machines and moving objects (airborne, land-based, water-bases and off-shore).
 - 4. Research, design, construction and operation of machines and mechanical systems: rotating (e.g. manipulators), gyrating, hydraulic, pneumatic, electric, based on bio-mechanical technologies, etc.
 - 5. Research, design, construction and operation of machines and mechanical systems on mini- and micro-scale.
 - 6. Research and development works associated with the design and simulation of machine operation, including production lines, in conditions approximating the reality.
 - 7. Research and development works associated with the operation of machines, including production lines, in conditions approximating the reality.
 - 8. Design and operation of machines and mechanical systems, including production and maintenance systems, etc.
 - 9. Design and operation of machines and mechanical systems aided by IT systems (mechatronic systems).
 - 10. Design and operation of semi-automatic, automatic or autonomous machines and mechanical systems.
 - 11. Application of machines and mechanical systems for transmission (transport) of fluid, energy, power, etc.



- 12. Design and operation of machines in systems for renewable energy sources.
- 13. Design and operation of machines in environmental protection.
- 14. Design and operation of machines in agriculture, forestry, mining industry, defence industry, etc.
- 15. Application of mechanical solutions in the measurement systems.
- 16. Diagnostics and maintenance of machines and mechanical systems.
- 17. Design and production documentation (calculations, CAD, CFD, CAM, CAE and others) operational procedures, delivery tests, certification of machines and mechanical systems.

Other tasks require the approval of the Dean's Proxy for Internship.

- 18.
- 19.

II. Regardless of the technical and engineering skills specified above, a student is required to obtain the ability of working in a team, planning and realization of individual and team tasks, efficient communication, adhering to values and principles of cooperation in a team and also obtain specific social competences:

1. Readiness to cultivate and disseminate the standards of proper behaviour at work and beyond, unassisted decision taking, critical assessment of one's own actions, team actions and organization, assuming the responsibility for the effects of these actions, responsible fulfilment of professional roles including:
 - following the rules of professional ethics and requiring others to do so,
 - taking care for the output and traditions of the profession.
2. Readiness to critically assess the possessed knowledge and recognizing the meaning of knowledge in solving cognitive and practical problems.
3. Readiness to fulfil social duties, co-organize activities benefiting the society, initiate activities benefiting public interest, think and act in a resourceful way.