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The facilities available for the university

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6. The facilities available for the University

The building, its equipment and other facilities
In Malmö the WMU will have its administrative buildings as well as the lecture rooms and workshops of the former Malmö Merchant Marine Academy. These comprise:

- classrooms and working tutorial rooms (two rooms accommodating 35 people and three rooms accommodating 24 people each);
- lecture theatre, to seat 60 students at a time;
- lecture rooms and workshops of the former Malmö Merchant Marine Academy;
- administrative buildings;
- accommodation for staff;
- tutors’ preparatory rooms;
- equipment room for audio visual aids, films and projectors;
- engine room demonstration block;
- laboratories dealing with oil, chemical, and gas transportation;
- coffee room;
- lounge/ante-room.

The roof is provided with an open area for celestial observations and a moving circular platform with binnacle for magnetic compass adjustments.

The fifth floor comprises a moving circular platform with a bridge mock-up installed with radio direction finders to ascertain radio deviation. Decca receiver, Omega receiver, and a radar covering the Baltic Sound. A room is also available for repairing equipment, laboratories for dismantling radars, and rooms for tutors’ preparatory work.

The fourth floor is equipped with radar telephone stations, ship’s model for studies in compass work; ship design; static water tank; rigging model; ship’s behaviour and wire tensions; cargo handling and loading computers; puncher keyboard for making morse programmes; sextants and transport laboratory experimental utensils are also available.

In an annex to the main building, ship’s engines and auxiliary engines are located for engine tests and educational purposes. The engine hall has evaporators, separators, oil content meters, crude oil washing demonstration model, model inert gas generator, reeler chamber, gas measuring instruments etc. Laboratories for various tests and research work are available, as well as an infraspectrofotometer, gaschromatographs etc.

In Malmö the WMU will have its administrative buildings as well as the lecture rooms and workshops of the former Malmö Merchant Marine Academy. These comprise:

- technical professions;
- administrative, economic and social professions;
- medical and paramedical professions;
- pedagogical professions;
- culture and information professions.

Some important pre-requisites for the development of a scientific approach to studies at the World Maritime University are ready access to laboratories of high standards.

Engineering, mechanical engineering, civil engineering and engineering sectors. Its standard of education in mathematics, physics, chemistry and similar subjects is internationally accepted.

In the section of electrical engineering all research projects are centred around light-current technology. There are basic courses in theoretical electromechanics and applied courses in telecommunication theory, telecommunication systems and applied electrical and electromechanical technology. In all these fields applied technology has come to play an increasingly dominant role.

In the section of mechanical engineering, work is concentrated into three main areas; design and production, energy and traffic and economy.

There is also research and education in civil engineering, traffic engineering, water resource engineering, geotechnical geology.

The chemical centre is the largest institution for research education in chemistry in northern Europe.

The Planetarium of the Lund Observatory specializes in travel. It contains unique equipment for demonstration education.

The Environmental Studies Programme engages in future and strategic studies in the field of energy, notably questioning energy and environment. Interdisciplinary graduate level include e.g. tracer analyses and environ measurement techniques.

At the Kockums Shipyard, which is adjacent to the W number of sophisticated laboratories constitute the basic which the progress of the shipbuilding industry is founded. The understanding of shipbuilding technique is fundamental all those who are involved in shipping industry. In Malmö Kockums Shipyard has developed a productive way of building highly sophisticated ships as gas tankers, chemical tankers, ferries and combination ships. The laboratory of mechanics materials which occupies an important place in a shipyard p an ideal opportunity for the accurate calculations of str strength of materials.

7. Conclusions

Shipping is international by nature and a great deal of its suc its safety depends on international co-operation among maritime administrations all over the world. It is also an intensive industry. It is, therefore, vital for its success that World countries’ senior maritime officials are properly trained and fully qualified.

In most cases, each of these countries needs only a few r who are specialized and aware of the most modern technol specific fields of shipping. The availability of the services experts would then ensure safe and economical shipping act well as efficient protection of the marine environment benefit not only of the country concerned but also of international trade everywhere in the world.

The proposed World Maritime University would thereby contribute a contribution of exceptional value in the global education for safer shipping and cleaner oceans in a world d by the growing use of modern technology.