

## EPM 5130 Corrosion Protection of Construction

### Assessment criteria

Grading methods	Graded final written test
Grading criteria	<p>0 – Inadequate knowledge of Basic criteria;</p> <p>1 – Appears mistakes complying to Basic criteria;</p> <p>2 – Basic knowledge about corrosion protection :            Basic knowledge about types of corrosion processes and phenomena caused:</p> <ul style="list-style-type: none"> <li>- Aggressive environmental, industrial and climatic exposure conditions. Selection of proper materials, construction and building technology. Maintenance and durability behavior. Life time and durability.</li> <li>- Specifications of climate, environmental, industrial and exposure conditions. Humidity, moisture and water absorption. Standards and norms. Methods of testing.</li> <li>- Influence of the composition, technology and hardening conditions of various concrete and mortar products on durability of these materials. Evaluation and protection.</li> <li>- Corrosion symptoms and mechanisms in various timber-, polymer-, glass-, metal-, natural and artificial stones, ceramics, insulation-, bituminous and finishing materials and using their together in the constructions. Conditions. Testing. Selection of materials and assembly structures</li> <li>- Maintenance and durability behavior. Environmental impact and life cycle evaluation of materials. Prevention of corrosion</li> </ul> <p>3 – has ability to understand, justify and explain Basic criteria</p> <p>4 – knowledge of the various corrosion processes ,their causes and protection methods conform to Basic criteria with explanations and argumentations,</p> <p>5 – Advanced knowledge of the corrosion risks and protection of materials and constructions are profound and impeccable. Knowledge performed intelligibly and profoundly using specific engineering vocabulary.</p>
Allowance to grading	<p>Prerequisites for grade:</p> <ol style="list-style-type: none"> <li>1. Accepted research resume of freely selected by student one corroded building or construction object: construction, materials, signs of corrosion, conditions inducing aggressive impact, possible measures and materials for renovation.</li> <li>2. results of the two midterm individual test results must give more than 50 points (arithmetic mean)</li> </ol>

Forming the final grade	Final grade according to knowledge. Results 0-5: valuation 5 – 91-100 points, valuation 4 – 81-90 points, valuation 3 – 71-80 points, valuation 2 – 61-70 points, valuation 1 – 51-60 points, valuation 0 – < 50 points
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