Scope		**Metallic materials – Tensile testing**			
Group		Team No.		Date	
Team members					
Comments					

1. Principle

   The test involves straining a test piece by tensile force to determine the mechanical properties of the steel material. The test should be performed in accordance with the standard EN ISO 6892-1

2. Basic data

   Designation of the test piece: ……

   Type of the material: ……..

   Type of the piece: ……...

3. Shape and the dimensions of the specimen

   Determination of the original cross-sectional area of the parallel length

Measurement No.	Cross-section diameter [mm]	Cross-sectional area [mm^2]
1		
2		
3		
Original cross-sectional area of the parallel length S_o [mm^2]:		

   Original diameter of the parallel length of a circular test piece d_o [mm]: ……..

   Original gauge length L_o [mm]: ……

4. The values measured after fracture the specimen

   Diameter of the gauge after fracture d_u [mm]: ……

   Final gauge length after fracture L_u [mm]: …….

5. Determined values

   Minimum cross-sectional area after fracture S_u [mm^2]: ……

   The force corresponding to the upper yield point F_{eH} [N]: ……

   The force corresponding to the lower yield point F_{eL} [N]: ……

   Maximum force F_m [N]: ……..

6. Test results

   Upper yield strength R_{eH} ……

   Lower yield strength R_{eL} ……

   Tensile strength R_m ……..

   Percentage elongation after fracture $A_{11,3}$ …….

   Percentage reduction of area Z …….

7. Modulus of elasticity E