



**ANNEX 1**

**Department of Engineering**

<b>POSTI</b>	N. 1
<b>S.C.</b>	08/A1 – Hydraulics, Hydrology, Hydraulic and Marine Constructions
<b>S.S.D.</b>	ICAR/02 – Hydraulic Structures, Maritime Engineering and Hydrology
<b>Location of research activities:</b>	Department of Engineering
<b>Teaching venue:</b>	Department of Engineering
<b>Functions to be performed - type of teaching and scholarly engagement:</b>	<p>The teaching activity will be carried out within the disciplinary area of SSDICAR/02 primarily for the relevant study courses of the Department and/or in other study courses of the University for which a request will be made to the Department as provided for by the University regulations.</p> <p>The scientific activity must be carried out consistently with the declarations of SC 08/A1 and mainly on the activities of the research convention HYDROBALANCE (CON-458): COLLABORATION AGREEMENT for the implementation of the Project "Basin Authority of the Hydrographic District of Sicily - Interventions for the improvement of the quality of water bodies CUP: F62G1600000001" - Intervention Line L1 Water balance - Studies for the analysis of hydrological pressures - sustainable management of water resources according to directive 2000/60 and for governance in times of drought and adaptation to climate change.</p> <p>In particular, the research concerns the development of methodologies for the analysis of hydrological pressures with particular reference to reservoirs and the main diversion weirs for river water bodies, and the development of methodologies aimed at defining ecological flows downstream of reservoirs and main diversion weirs. These analyses will allow for the sustainable management of water resources according to directive 2000/60 and for governance in times of drought and adaptation to climate change.</p> <p>These research activities are consistent with the implementation of the PNR 21/27: Major research area: 5.3 SECURITY FOR SOCIAL SYSTEMS Intervention area: 5.3.1 Security of structures, infrastructures, and networks Articulation: Articulation 4. Security and resilience for society and sustainable development</p>
<b>Maximum number of publications:</b>	12
<b>Language skills:</b>	English