Topic	***Description // Potential Sub-Topics***	***Study Programme***	***Requirement***	***Contact Person***
Urban Livability as a way to endorse Climate Change Adaptation (CA) in Certification Systems (CS) for neighborhoods: Focus on floods and droughts.	a. How do the most globally well known CS for districts approach CA (with a focus on water topic and particularly stormwater management)? What is the contribution of CS to CA not only with regards to rating, but also to the provision of guidelines for planning. From theory, to planning and implementation. b. How do the most globally well known CS approach Livability on the district/neighborhood scale. Identification and analysis through cases. c. Blue Green Infrastructure in certified neighborhoods. A comparative analysis from certified projects. Planning, implementing and evaluating – Lessons learnt.	REAP, Urban Planning and Civil Engineering		Marianna Giannousopoulou <maria.giannousopoulou@hcu-hamburg.de>

Topic	***Description // Potential Sub-Topics***	***Study Programme***	***Requirement***	***Contact Person***
ZUGABE für die Altstadtküste – Anwendung des ZUkunftschancen GAnzheitlich BEtrachten (ZUGABE) Tools für die Identifikation von Maßnahmen zur dezentralen Regenwasserbewirtschaftung	Application of ZUGABE Tool for area of Altstadtküste (in Hamburg) to identify ways and options for a decentralised rainwater management. A short description for the ZUGABE Tool can be found in the Blue Green Streets Toolbox Teil A (page 16). Guiding question could be: How can the rainwater at the Altstadtküste be collected/treated to increase the dwell time of the rainwater in the area and how can it work as source for evapotranspirating/irrigation? Close connection to LILAS im Wandel research project and coorperation with Ingenieurgesellschaft Prof. Dr. Sieker mbH.	REAP, Urban Planning, Urban Design and Civil Engineering	Basic GIS skills	Justus Quanz <justus.quanz@hcu-hamburg.de>

Topic	***Description // Potential Sub-Topics***	***Study Programme***	***Requirement***	***Contact Person***
Financial and institutional arrangements for improved Faecal Sludge Management (FSM) with a focus on Dar es Salaam (DAR)	a. What are improved arrangements for FSM which lead to cost reduction - Global lessons learnt b. Comparison of different sanitation planning tools c. What are the current costs for FSM in DAR and comparable cities d. How high is the willingness to pay for FSM services in DAR and comparable cities e. Computing costs for FSM in DAR when applying the improved arrangements	REAP, Urban Planning, Urban Design and Civil Engineering	Good English Skills, basic understanding of sanitation and wastewater management, specific experience and interest in any of the listed sub-topics	Tim Fettback <tim.fettback@hcu-hamburg.de>

Themen für studentische Abschlussarbeiten in „Umweltgerechter Stadt- und Infrastrukturplanung“ //
Theses Topics in “Environmentally Sound Urban and Infrastructure Planning“

Topic	***Description // Potential Sub-Topics***	***Study Programme***	***Requirement***	***Contact Person***
Decentralized Stormwater Management, within a Research Project which is currently being implemented in Dar es Salaam (DAR) in collaboration with Ardhi University and BORDA	a. Identification of improved concepts for decentralized stormwater management - Global lessons learnt which are applicable in the DAR context b. Assessment of current guidelines, legal frameworks and institutional arrangements for decentralized stormwater management in Tanzania and DAR c. CDevelopment of improved and context specific stormwater management concepts d. ontext specific landscape design for improved scalability of decentralized stormwater management systems e. M&E of performance of the implemented pilot system (focussed on the water balance of the infiltration basin) f. Cost-Effectiveness analysis of the developed concepts	REAP, Urban Planning, Urban Design and Civil Engineering	Good English Skills, basic understanding of stormwater management, specific experience and interest in any of the listed sub-topics	Tim Fettback <tim.fettback@hcu-hamburg.de>
Blue-Green Tram Tracks for Sustainable Stormwater Management	How Tramways can safely and efficiently reduce stormwater runoff and improve water quality? And What are the potentials, considerations and limitations to integrate bioretentions, infiltration trenches, permeable pavers, open channels and tree pits along the corridor?	REAP Urban Planning, Urban Design Civil Engineering		Mahmoud Moursy mahmoud.moursy@hcu-hamburg.de

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Topic	***Description // Potential Sub-Topics***	***Study Programme***	***Requirement***	***Contact Person***
Circular economy for green urban infrastructure materials	What is the status quo for the usage of recycled or recyclable materials for different green urban infrastructure types like f.e. green roofs and facades? Is there a market potential? Which material types could be replaced by “circular materials”? Which legal and technical requirements have to be noted and what are other challenges?	REAP, Urban Planning, Urban Design Civil Engineering	Die Arbeit kann in deutsch oder englisch verfasst werden	michael.richter@hcu-hamburg.de
Regenwassereinleitung und Behandlung am Kanal	Rainwater gets differently drained within Hamburg, depending on surface and location of the site. As several waterbodies are used as drainage systems for surface water which comes from heavily used roads, the waterbodies are polluted after each rainfall. To minimise those impacts on the water quality, the thesis should develop solutions for decentralised management and purification. Focusing therby on the canals that are also area of interest for the LILAS im Wandel research project (cannals at Bille). Thesis will be supervised by members from LILAS and be developed in close connection to the research project where research is also focusing among others also on Kanäle at the Bille, but with a different thematic focus.	REAP, Urban Planning, Urban Design and Civil Engineering		Justus Quanz <justus.quanz@hcu-hamburg.de>; Katarina Bajc <katarina.bajc@hcu-hamburg.de>