AFRICA CENTRES OF EXCELLENCE (ACE II)

CENTER OF STUDIES IN ENGINEERING AND TECHNOLOGY OF OIL AND GAS (CS-OGET) WORK PLAN (JANUARY - DECEMBER 2022)

CMP XX

Activity No	COMPONENT	SUB-COMPONENT	ACTIVITIES	OBJECTIVE	JUSTIFICATION	DLI #	DLR#	OUTPUT	ESTIMATED BUDGET ($)	RESPONSIBLE UNIT	Year 2020 January - December 2022													
											January	Febrary	March	April	May	June	July	August	September	October	November	December
		Component 1: Strengthening Africa Centers of Excellence																						
1	**Achieving Learning Excellence**	**Activity 1.2** Development,approval, and implementation of PhD Programs	Design and approval of a PhD program in Science and Technology of Hydrocarbons (in collaboration with a project leaded by RAMBOLL- Monitoring of the P4 at Sasol/Pande Field)	To strengthen capacity to provide relevant quality training in key areas of oil & gas at PhD level.	Needs assessment, discussion with stakeholders (public and private sector), and national and international academic partners in order to create relevant curricula	2	2,2	A PhD program designed and approved, ready to be implemented in 2022. 6 students (2 from the region) are selected to the program	**$6.000,00**	CS-OGET + Faculty of Engineering of UEM + Faculty of Science of UEM	x	x	x	x	x	x	x	x	x					
		Activity 1.3 Development and implementation of short training courses	Design and implementation of 4 short courses (2 courses in Drilling and Operation Control, 1 course in Petroleum Geology and 1 course in HSE)	To give students, researchers and professionals from O&G companies and other institutions opportunities to have a chance to gain more knowledge in a topic of interest for the field.	Needs assessment, discussion with stakeholders (public and private sector), equipments, human resources, and logistics	2	2,2	4 short courses designed and implemented. 120 students and professionals benefited	**$20.000,00**	CS-OGET			x			x			x			x	
		Activity 1.4 Development and continuous update of teaching materials	Posting developed and edited materiais in *sharepoint, moodle* or similar electronic platform	To improve the quality of the teaching and learning environment	Licenses for *sharepoint. Moodle* or other similar academic electronic platform are warranted and kept updated	2	2,3	Electronic management of classes, contents and other academic elements of all MSc and new PhD programs is warranted through the use of *sharepoint, moodle or other electronic platforms*	**$5.000,00**	CS-OGET + Faculty of Engineering + Faculty of Economics + CIUEM	x	x	x	x	x	x	x	x	x	x	x	x	x
		Activity 1.7 Acquisition of adequate computing hardware and educational software licences	Acquisition of licences for 4 software educational and research purposes	To strengthen capacity to provide relevant quality training in key areas of oil & gas at PhD level.	Teaching and research capability in O&G are improved.	2	2,3	2 licenses for MHPE, 1 license for MHSE and 1 license for MOGEM are used for students, lecturers, and researchers	**$30.000,00**	CS-OGET + Faculty of Engineering + Faculty of Economics	x	x	x	x	x	x	x	x	x	x	x	x	x
2	**Achieving Research Excellence**	**Activity 2.1** Building effective research teams and establishment of interdisciplinary O&G research topics	To (re)define 4 main research topics. To support and participate in the implementation of 4 research projects.	To establish a solid research capability aiming to produce and deliver consistent and sustainable research outputs	Travel and logistic for meeting with potential national and regional research partners (academic and industry). Implementation of research projects (acquisition of lab equipments and consumables, field work)	2	2,5	Formal agreements with academic and industry research partners aiming to produce joint research. Research teams established.	**$60.000,00**	CS-OGET + University of Pretoria + Universidade do Lúrio + Instituto Superior Politécnico de Tete + SASOL/RAMBOLL	x	x	x	x	x	x	x	x	x	x	x	x	x
		Activity 2.2 Organizing research seminars	Planning, preparation and implementation of a O&G research seminar and 2 webinars	To improve the research environment is improved by exposing researchers and students to presentation and discussion of their scientific work	conference room, logistics,banner, rollups, publicity, documentation (printing, copies)	2	2,5	1 research seminar and 2 webnars are organized and delivered by researchers and students to present and discuss topics of interest in the field of	**$10.000,00**	CS-OGET + Faculty of Engineering + Faculty of Science + Faculty of Economics				x	x	x	x	x	x	x	x	x
		Activity 2.3 Participation in national, regional and international O&G conferences	Participation in 2022 conferences	Researchers from the Centre and key academic partners to participate in national, regional and international O&G conferences (presencial and online)	Enrolment, travel and logistics for participation in national, regional and international O&G conferences to present work produced under the CS-OGET scope	2	2,5	2 participations in national, and 6 in regional/international conferences for presentation of scientific production in ghe O&G fiield (presencial and online)	**$15.000,00**	CS-OGET, Faculties	x	x	x	x	x	x	x	x	x	x	x	x	x
		Activity 2.4 Secure membership to the Society of Petroleum Engineers	Payment of subscription of SPE	To subscribe SPE and benefit from their services and offers	Professors, students, and researchers benefit from the SPE multitude of resources and joint a global network of engineers, researchers, and specialists in the O&G field	2	2,5	All CS-OGET professors, researchers and students of MSc and PhD programs are members of SPE.	**$4.000,00**	CS-OGET, Facultiies												
		Activity 2.6 Procurement. Acquisition, instalation of relevant furniture, equipment and consumables	Procurement, acquisition and instalation of equipment for HSE and Petroleum Engineering	To reinforce the teaching and research capability in relevante HSE and Petroleum Engineering areas	Costs for acquisition, training and instalation of the equipment.	2	2,5	Equipment for HSE and for Reservoir Engineering and Petrophysics is acquired, installed and in use.	**$300.000,00**	CS-OGET, Faculty of Engineering	x	x	x	x	x	x	x	x	x	x	x	x

3	**Quality Assurance**	**Activity 3.1** Arranging for national and international accreditation of programs	Continuing the national and international accreditation of MSc and PhD programs.	To seek for national and international accreditation of the MSc and PhD programmes	Consultancy, goods and services required to achieve standards; Payment of accreditation fees.	2	2,3	1 MSc Program (MSc in Oil and Gas Ecomics and Management) and 1 PhD program are nationally accredited. The route for the international accreditation of 1 MSc program is started.	**$50.000,00**	CS-OGET + Faculty of Engineering of UEM + Faculty of Economics + CNAQ + International Accreditation Agency		x	x	x		x	x	x	x		x	x	x	x	x	
4	**Equity Dimensions**	**Activity 4.1** Gender and academic career awareness creation initiative for national and regional representativeness	Presentations on different academic student foruns and gatherings; production, presentation and distribution of brochures and banners	To increase the level of awareness about the importance of the O&G sector in the country and region and the role of our training institution in fulfilling the HR needs for the sector	There is a need to increase the level of awareness about the O&G sector and the needs for well trained HR to fulfill the needs of the sector at national and regional levels.	2	2,2	Engage with CECAGE (Center for Gender Issues) and determination of mechanisms for better dissimination and attraction of women for O&G programs.	**$5.000,00**	CS-OGET + Faculty of Engineering of UEM + CECOMA + CECAGE		x	x	x		x	x	x	x		x	x	x	x	x	
		Activity 4.3 Establishment of a Scholarship program for MSc and PhD to incentivate national disadvantaged young talented students	Stablishment and implementation of a scholarship scheme for national students (advertisement and award of selected types of scholarships)	To stablish and implement a national scholarship scheme to atract and benefit young talented students	National young talented students will be attracted and benefit from scholarships provided by the Centre , with special regard for talented young women, disable and marginalised communities people	2	2,2	20 partial ongoing (2021) and 10 new (2022) MSc scholarships are provided (enrolment and monthly school fees)	**$70.000,00**	CS-OGET + Faculty of Engineering + UniLurio + Partners (MRV)		x	x	x		x	x	x	x		x	x	x	x	x	
		Activity 5.2 Establishing special support services for non-national students	Language courses (remuneration for facilitators); participation in local social and cultural events (logistics and related costs); organisation of a dedicated help desk	To implement special support services for non-national students	Regional students and staff will need support to overcome some barriers to social insertion (language) and for other specific needs	2	2,2	Accommodation and language course are available for regional students	**$10.000,00**	CS-OGET		x	x	x		x	x	x	x		x	x	x	x	x	
		Activity 5.4 Establishment of a Scholarship program for MSc and PhD to attract and incentivate regional young talented students	Stablishment and implementation of a scholarship scheme for regional students (advertisement and award of selected types of scholarships)	To implement a regional scholarship scheme to atract and benefit young talented students	Regionall young talented students will be attracted and benefit from scholarships provided by the Centre , with special regard for talented young women, disable and marginalised communities people	2	2,2	10 ongoing 2021 full MSc scholarships are provided (tuition fees, living expenses). 6 new 2022 full MSc scholarship and 2 PhD provisions (travel expenses, enrolment fees, tuition fees and living expenses).	**$150.000,00**	CS-OGET + Cooperation Directorate + DSS (Accomodation)		x	x	x		x	x	x	x		x	x	x	x	x	
6	**Collaborative Activities**	**Activity 6.2** Professors, researchers and students exchange	Definition of needs/opportunities for exchange; Selection of potential beneficiaries; implementation of the exchange program (travel and related costs)	To implement of a student, professor and researchers exchange program	Improved performance in teaching, research and learning.	2	2,6	4 faculty will have visited and worked in a partner or non-partner institution (national, regional or international).	**$30.000,00**	CS-OGET + Faculty of Engineering			x	x		x	x	x	x		x	x	x	x	x	
		Activity 6.4 Joint supervision, research and publications	Definition of needs/opportunities for supervision, research and publications for year 5; Selection of students to be supervised and contacts with institutions and faculty, researchers and experts to be involved; Students supervision and publications (remunerations of supervisors and payment of incentives for research	To design and implement a joint supervision, research and publication squeme	The success of this activity will improve research quality and increase number of publications.	2	2,5	At least 8 papers are published.	**$5.000,00**	CS-OGET + Coordinators MSc Programs		x	x	x		x	x	x	x		x	x	x	x		
7	**Infrastruture Development**	**Activity 7.1** Civil works (upgrading and rehabilitation) for the building hosting the Center	Planning/design; Schematic design; Design development; Constructiion documents; Bidding; Initial construction steps; Inspection and audit	To design and implement a new building to host the CS-OGET.	Planning/design; Schematic design; Design development; Constructiion documents; Bidding; Construction; Inspection and audit	2	2,3	New building for the Center (initiation). Drilling and Operation Simulator room rehabilitated	**$600.000,00**	CS-OGET + Infrastructure Directorate		x	x	x		x	x	x	x		x	x	x	x	x	
		Activity 7.2 Acquisition of transport means, fuel and repairs	Fuel and maintenance for CS-OGET vehicles	To keep operational the two vehicles already purchased	Fuel and maintenance			The 2 Vehicles are running in good conditions and performing the tasks	**$10.000,00**	CS-OGET		x	x	x		x	x	x	x		x	x	x	x	x	
8	**Management and Governance**	**Activity 8.1** Recruit staff and faculty	To contract 2 researchers.	To create more human capability for research.	Payment of 1 internally contracted researcher (while the paperwork proceeds to a definitive contract).	2	2,3	All legal procedures are followed in order to ensure the formal an definitive contract of 2 researchers	**$5.000,00**	CS-OGET + Human Resources Directorate		x	x	x		x	x	x	x		x	x	x	x	x	
		Activity 8.2 Participation in national,regional, and international coordenation and benchmarking activities and events	NSC meetings (local travel for selected members, logistics for meetings); ACEII regional meetings; benchmarking, negotiating and signature of MoU´s activities	To participate in national, regional, and international coordenation and benchmarking activities and events	Travel and logistics expenses related to coordination.	2	2,8	Participation in relevant coordinatiion meeting. Organisation of NSC meetings. Visits to planning and implementation of collaboration activities	**$20.000,00**	CS-OGET		x	x	x		x	x	x	x		x	x	x	x	x	

		Activity 8.3 Administrative Costs	Expenses for administrative functionalities	To have appropriate means to enable the professional and qualitative perfomance of all administrative functionalities	Furniture, administrative materials, equipments and tools, consumables, communication, miscellaneous	all	all	The administration of the Center runs with quality and professionalism	**$40.000,00**	CS-OGET		*x*	*x*	*x*		*x*	*x*	*x*	*x*		*x*	*x*	*x*	*x*	*x*	
		Activity 8.5 Staff Development Plan	Payment of enrolment and tuition fees	To train relevant CS-OGET staff to make them able to accomplish required tasks (teaching, research, administration) with quality and excellence	Enrolment fees, travel and logistics	all	all	2 Staff members training in English Language at the British Council + 2 staff members trained in Oil and Gas Operationsl Safety + 1 staff member finaliising his doctoral	**$15.000,00**	CS-OGET		*x*	*x*	*x*		*x*	*x*	*x*	*x*		*x*	*x*	*x*	*x*	*x*	
9	**Monitoring and Evaluation**	**Activity 9.2** Internal and External Auditing	Internal and external audit	To implement internal and external audit schemes	There is a need to get audited and approved all Center activities and Financial Reports	all	All	Statement of Approval of the CS-OGET Reports	**$15.000,00**	CS-OGET		*x*	*x*	*x*		*x*	*x*	*x*	*x*		*x*	*x*	*x*	*x*	*x*	
		Total							**$1.475.000,00**																		