

# **College of Science and Technology**



#### UNIVERSITY OF RWANDA

## AFRICAN CENTRE OF EXCELLENCE IN ITERNET OF THINGS (ACE-IoT)

## ANNUAL WORK PLAN FOR THE FISCAL YEAR 2022/2023

#### **Timeline**

COMPON ENT	Activity No	DLIs	Type of expenditure	ACTIVITIES	OBJECTIVE	OUTPUT	JUSTIFICATION	ESTIMATED BUDGET	RESPONSIBLE	July	August	September	October	November	December	January	February	March	April	May
										1	2	3	4	5	6	7	8	9	10	11 12
Learning excellence	1.1	2	Operating cost	To obtain International Accreditation of the new curricula of masters and PhD programs	To Ensure that the programs offered by the center meet the international standards	2 Masters and 2 PhD programs internationally accredited by AQAS	To increase the quality of the programs and the center is internationally recognized	16,100	Head PhD and Center Director										$\Box$	
	1.2	2	Operating cost	To train high level professionals in the field of IoT through Masters Programmes	Increase the number national and regional students trained in the field of IoT at MSc level	30 (5 regional) new students enrolled, 5 visiting Professors invited to teach cohort 4 and 5, 40 Students of Cohort 3 research projects supervised, supervisor payment, tickets for	Train students in IoT field for solving problems using IoT technology, to build the africans capacity in IoT	417,036	Head of MSc and admin for postgraduate											
	1.3	2		To train high level professionals and academics in the field of IoT through PhD Programmes	Increase the number of PhD students trained in IoT field and enhance the capacity building of africans	36 students continues, 5 new students admitted under sponsorship of PASET, 8 new PhD students enrolled under sponsorship of the Center; at least one DC meeting conducted with min 5 external DC members and supervisor	Train students in IoT field for solving problems using IoT technology, to build the africans capacity in IoT	. 7 .	Head of Research and PhD program, admin for postgraduate											
	1.4	2	Operating cost	To train professionals in IoT through Short Courses/Training Programmes	Increase the number national and regional professionals trained in IoT through Short Courses/Training		Train professionals in IoT for the capacity building and efficient service delivery		Research Assistants, Head PhD and Research											
	1.5	2	Operating cost	To develop a 3rd MSc. program to produce skills researchers in IoT	Develop a new MSc. program at ACE-IoT	One Master program developed	To deliver high quality programs to skilled researchers and professionals in IoT.	5,000	Head Masters, admin for postgraduate, accountant, administrator											

				Total for Lear	ning excellence			595,656					
Teaching and Research	2.10	2.00	Operating cost	Increase IoT applied research through Internships for Masters and faculty	To develop skills of MSc, PhD and staff of the center	MSc Student experience the working environment in the industry.	For research capacity building of MSc, PhD	6,000	Head of Research and PhD program				
excellence	2.20	2.00	Operating cost	Prepare and conduct a community awareness activities about emerging innovative technologies in IoT.	Share knowledgge and skills To develop industry, government and academic collaboration	At least two community awareness about new emerging innovative technologies in IoT	*Exhibition of new technologies and prototypes at Kigali convention and Exhibitation Village (KCEV). *Community awareness in secondary schools (Lycee Notre Dame de Citeaux, Lycée de Kigali, St André Kigali) in collaboration of STEM power center.	10,000	Center Director, Communication and marketing specialist, Head of MSc. programs and Center administrator				
	2.30	2.00	Operating cost	Increase IoT applied research output through International conference Presentations and Journal Publications by staff and students	To enhance ACEIoT standing at international level	At least 15 publications supported by the Center	Desseminate results, network and enhancing visibility	15,000	Head of Research and PhD program, Administrator for PG studies and research, Head of MSc. programs				
	2.40	2.00	Capital expenditure	Establishing an Artificial intelligence lab in the center to serve the entire University	To handle AI specialised research laboratories and support Applied research by students and staff	Artificial Intelligence (AI) lab at the Center to support in generation of externally revenues and enhance AI skills for students and staff	The community of ICT and IoT in the University of Rwanda have to conduct experiments and researches in AI lab and conduct consultancies in IoT.	30,000	Head of Research and PhD program, procurement, Head of master, IT and Webmaster, Center Director				
	2.50		Operating cost	Organize and conduct an open day during the induction week	into the Center.	Open day during the induction week (1)	Induction of new students,  * The new students have to be induce in the environment of CST and IoT.		Head of Master's studies, administrator for postgraduate				
	2.60	2.00	Operating cost	To equip the video conference and smart classroom for high performance	Purchase of a licence of programs and furnituresrelevant to a high performance of a video conference at ACE-IoT	* Procure a licence of polycom software, * Purchase furnitures to equip classroom of students	The Video conference room has to use licenced software. The classrooms of MSc. programs have to be equiped with smart tools for a conducive environment of teaching.	10,000	Head of MSc. programs, procurement officer, IT and Webmaster				
	2.70	2.00	Capital expenditure	Equip classrooms with desktop computers	Purchase computers and accessories for research fafilities	enhanced learning environment	Providing convincing teaching and working environment	20,000	Head of MSc. programs, procurement officer, IT and Webmaster				
	2.80		Operating cost	Organize a workshop for Supervision training	To increase the supervision capacity and skills	capacity	To provide quality supervision		Head Masters, admin for postgraduate, accountant,				
	2.90	2.00	Capital expenditure	Provide seed funds for best projects from students	To awareness of the center and make impactful projects	At least 5 project supported, 20,000 each	To create impactfull project	100,000	Head Masters, admin for postgraduate, accountant, administrator				
	3.00	2.00	Capital expenditure	Equip the IoT lab with additional equipment that may be needed by students	To increase the research capacity	More research projects developed	To attract funds and best students		Head of Research and PhD program, Administrator for PG studies and research,				
	3.1	2	Capital expenditure	Renovation of center premises	Renovation of center premises	refurbished rooms, enhanced learning and working environment	Providing convincing learning and working environment		Head of MSc. programs, procurement officer, IT and				
					d Research excellence			327,000					
Regional/Int ernational partnerships and programs	3.10	2.00	Operating cost	Advertise and marketing of activities and achievements of the Center	Advertising all activities and programs of the center	* All promotional materials development and publishing. * Updates on the Center's website and on social media : Twitter, facebook.	To attract regional, nationa and international partners/stakeholders	15,000	Communication and marketing specialist				
	3.20	2.00	Operating cost	Establish a framework for facilitating joint research collaboration with partners and enhanced infrastructure for the center	To develop collaborative research framework within partners for support in infrastructure setting up	enhanced	networking in research and teaching	10,000	Center Director/ CST Principal				
	3.30	2.00	Operating cost	Establish exchange programmes for strengthening the capacity of staffs	To facilitate skills and knowledge sharing	At Leat 5 Exchange programs	Promotion of sharing of skills, knowledge and resources among partner institutions		Center Director,Head Master studies				
	3.40	2.00	Operating cost	Create a forum for knowledge transfer and community outreach	Facilitation of knowledge transfer and dissemination	Seminars (12), Public talk (2) in collaboration with partners	Fostering collaboration and networking with the community	200	Center Director, Head PhD and research				

				Total Regional/International	partnerships and pro	grams		35,200					
Managemen t and governance	4.10	2&3 and	operating cost	Establishment & Running of ACEIoT Office	Purchase stationnaries and other office related material needed to ruth the center activites including IT equipments		Suport the center by providing all materials and stationnaries that are needed in running activities, some maintenace and refurbishing of center allocated rooms, support adult, procurement, steering meeting logistics, planning, multi-task printer.	27,000	administrator, Accountants, procurement officer				
	4.20	2.00	operating cost	Coordination of regular international Scientific Advisory board meetings	To ensure that IoT training programs meets international standards	At least one advisory board meeting organized in a face to face meeting	* Effectiveness of the IoT training program to meet international standards. * To involve the partner institutions in different activities of the Center	15,000	Center Director				
	4.30	2.00	operating cost	Facilitation of travels Local/International) for IUCEA/AAU/World Bank workshops	Pay accomodation, airtikets and other related travel cost to the centers leaders	2 TAM meetings and other WB/IUCEA meetings as invited	Center Leaders need to attend workshhop and meetings whhich are oranized by IUCEA/WB and othher stakeholders	10,000	Center Director, Admin, acountant				
	4.40	2&3 and	operating cost	Provide Salaries for non-academic staff /Support staff	Pay the montly salary to the support staff	IT officer,M&E officer,Accountant, Center Administrator, Internal auditor specialist, Administrator in charge of pstgraduate, Procurement officer,	To support the center in its day to day activities	97,485.14	Accountant, Administrator				
	4.50	3 and 4	operating cost	Participation in center activities and preparation of center documents by all center staff		at least one retreat for self assessments	To support the center in its day to day activities and producing the required document on time, planning, budget revision, development of Center sustainability plans.		Accountant, Administrator, M&E officer				
	4.60	2&3 and 4	operating cost	The evaluation of the assets, store of the center	To monitor the assets of the center	Quarterly physical verification reports of store and semi- annual updated independent verification reports and updated assets register of the center	Reporting on assets and store of the Center		Center administrator and IT Officer				

				Total for Managem	ent and governance			153,485				
Sustainable financing	5.10	2.00	Operating cost	Recruit self sponsored students	Visit private and public institutions for sensibilisation for possible funding of their employees to study in the center	At least 5 private students recruited	For the sustainability of the center after the WB finaning		Head PhD , Head Masters, admin, accountant			
	5.20			Identify potential private companies, institutions to host student conducting industrial attachments /internships		10 institutions or industries working in the field of IoT identified to partner in the provision of	The students will be placed in good companies for their intership and get experience with industrie		Head of Master's studies, admin for postgraduate			
	5.30	2.00	Consultancy	Development of the center strategic plans including the Center sustainability plan	to increase income generation for sustainability of the center and show the center projection		To develop Center' sustainability plan and its annexes to shape the vision of ACE-IoT after World Bank funds.	20,000	Center Director, Procurement officer, M&E officer			
	5.44	2.00	operating cost		Strengthen capacity and skills in wireless sensor Network for teaching staff	At least one Staff trained in Wireless Sensor Networks modules	To increase the inhouse staff and enhanced the teaching staff capacity	10,000	Head of PhD and Director			
	5.50	2.00	Operating cost	To build the capacity building of	Strengthen capacity in Artificial Intelligence and machine learning	At least staff trained in Artificial intelligence( AI)	To increase the inhouse staff and enhanced the teaching staff capacity	15,000	Head of PhD and Director, admin			
	5.60	2.00	Operating cost	faculty staff for their expertise in areas needed by the Center.	Strengthen capacity in Embedded computing systems	At least one staff training in Embedded computing modules	To increase the inhouse staff and enhanced the teaching staff capacity	10,000	Head of PhD and Director, admin			
	5.70	2.00	Operating cost			At least One faculty staff trained in short course development and delivery	To increase the capacity of staff in short course development and delivery	8,000	Head of PhD and Director, admin			
	5.80	2.00	Operating cost	Facilitate Grant Proposal writing	Attract external and internal generated resources	Generate at least USD 200,000 through grants	To offer scholarship to masters' and PhD students and staff motivation		Accountant and PG Studies administrator, Director, Head of Research,			
					nable financing			83,000 1,194,341				
TOTAL BUDGET												

3: DLIs Explanation: DLIs#2: Excellence in education and research capacity and development impact

DLIs#3: Timely, transparent and institutionally reviewed Financial Management

DLIs#4: Timely and audited Procurement

On the 31 March, 2022

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