	Activity No												
CHT AX	Activity No COMPONENT	Achieving	Learning Excellence										
	SUB-COMPONENT ACTIVITIES	Component 1: Stre	Activity: 1.1 Implementation of Master programs		Activity 1.3  Development and implementation of short training courses		Activity 1.4 Development and continuous update of teaching materials		Acquisition of convenient teaching demonstration kits	Activity 1.6 Library upgrade, acquisition of relevant O&G literature	Activity 1.7 Acquisition of adequate computing hardware and educational software incences		Activity 1.8 Development and implementation of an e-learning platform
	ACTIVITIES	Component 1: Strengthening Africa Centers of Excellence Activity: 1.1 Review of already implemented MSc in To	Review of already implemented MSc in Petroleum Engineering and MSc in Hydrocarton Processing Engineering	Development of new curricula (MSc in Safety and Environmental Engineering and MSc in Petroleum Geology)	Conception and design of short training To give professionals from OSG companies and other irrestructures opportunities to have a chaince to apportunities to have a chaince to gain more trowledge in a topic of interest for the field.	Preparation (teaching materials, human resources, publicity, selection and admission) and delivery (remuneration of facilitators)	Development and update of teaching materials for all subjects of the MSc programs currently being implemented	Posting developed and edited materials in sharepoint	Needs assessment, procurement and acquistion of teaching demonstration kits	Developing list, procurement, acquisition, reception and organising new relevant literature	Acquisition of Hardware	Acquisition of Educational Software licences, installation, and training	IT staff works on producing the specs for the hard and software needed, procurement is developed and strategies for training are considered
	OBJECTIVE	To Strenothen capacity to provide	To Strengthen capacity to provide relevant quality training in key areas of oil & gas at MSc level.		To give 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.		To qualitatively improve the teaching and learning environment		To improve the visual and hands- on exposure to practical demonstrative activities in order to enhance the quality of the teaching and learning experience	To equip the library with relevant O&G reference books in order to enhance the teaching, learning and research experience	To foresee the hardware and Availability of modern con- software capability to support the hardware declarational educational structure software produces positive (management, beaching and cone by studiers and nee- research)		To develop and implement a  The availability of an online multi-purpose e-learning platform altornative for teaching and research will enhance the academic environment quall
	JUSTIFICATION	There is a need to detect and	il There is a need to detect and eliminate gaps in the current curricula being implemented, keeping them aligned to current and future needs of the O&G professional market in the country and in the country	Safety, environment, and geology of Petroleum are other important technological disciplines needed to adress the current and future demand for professionals in the OBG industry.	Needs assessment for topics, contents, and resources are required to provide a basis to e better design of a short training course.	A good planning and preparation are a key ingredient to a successful implementation of the short training course	Teaching materials well structured to all subjects are essential to ensure a qualitative teaching/learning environment	This materials should be made available to all interested parties (students, professors and researchers) in a dedicated academic electronic platform	There is a need to increase the quantitative and qualitative exposure to practical activities in order to balance and complement the theoretical load in the MSc programmes	The learning and teaching experience will be highly benefited by the existence of a modern and well equipped library room for O&G teachers, students and researchers, and the exactly that of the experience of th	Availability of modern computing hardware and educational software produces positive impact on the quality of the work being done by students and researchers.		The availability of an online alternative for teaching and research will enhance the academic environment quality.
	оитрит	MS- (MDE and MILDE) 6.6.	2 MSc (MPE and MIPE) fully approved Master programs are implemented. Need for review is evaluated.	MSEEPI and MPG curricula developed and ready to undergo the approval steps.	1 short training course developed \$6,000.00 to be delivered in 2017	At least 20 professionals are trained in a specific O&G relevant topic.	I All MSc programmes being implemented have a complete and comprehensive set of teaching materials.	Teaching and learning materials are posted and available to all students, professors, and researchers in sharapoint.	2 subjects of each MSc program (MPE, MHPE) have at least 1 demo-kit for practical activities in class in 2017	5 courses of each of the MSc programmes being implemented (MPE and M+PE) have at least 10 reference book and at least 10 units of each title	Expected hardware acquisitions in 2017: 3 deakrops, 2 laptops, 2 network scanner/printers.	At least 2 educational relevant softwares softwares southly, researchers and students are trained and able to	Procurement on expected hardware and software acquisitions: I server, I licence for educational e- learning platform. IT technician trained as
	ESTIMATED BUDGET (\$)	430000	\$300.00	\$4,700.00	\$6,000.00	\$9,000.00	\$8,400.00	\$1,600.00	\$10,000.00	\$10,000.00	\$21,000.00	\$9,000.00	\$5,000.00
	RESPONSIBLE UNIT	COCCUTA AND AND	CS-OGET + MPE and MHPE Coordinators	CS-OGET + Chemical Engineering Department + Geology Department + NTNU + Tubelft	CS-OGET + Umak + NTNU + TuDeift	CS-OGET + Uniturio + ENPCT	CS-OGET + MPE and MHPE Coordinators + NTNU + TUDelft	CS-OGET + MPE and MHPE Coordinators	CS-OGET + MPE and MHPE Coordinators	CS-OGET + MPE and MHPE Coordinators	८- <u>०</u>	CS-OGET + MPE and MHPE Coordinators	
January - Decer	January Febrary	$\perp$	*	XX	×	x	*	x		×	×	*	
- December	March April		*	×	×	x	×	x x	Sizere	*	*	x x	(-0-412)
r 2017		•	*	* *	x x x	* *	XXX	x x x	*	* *	* *	x x x	×
	August September	_	*	×	* *	XX	X	×	<i>x x</i>	*	*	×	×
	October November		*	*	×	×	*	*	×	×	×	*	*
	December		×	*	×	×	×	×	×	×	×	× Since	*

LAUVERSIDADE GAS- UEM

ROBENHARIA DO FETROLEO E GAS- UEM

BURDINO MARIA DE FINANCIA DE FINANCIA

Eduardo

	Activity No	2		ži.					w
CMPXX	Activity No COMPONENT	Achieving Research Excellence							Quality Assurance
	SUB-COMPONENT	Activity 2.1 Building effective research teams and establishement of interdisciplinary O&G research topics	Activity 2.2 Organizing research seminars	Adalvity 2.3 Enrollmente Participation in preparation national, regional and presented international ORG conferences	Activity 2.4 Secure membership to the Society of	Petroleum Engineers	Activity 2.5 Subscription of OBG Scientific magazines and journals	Activity 2.6 Procurement, acquisition, msallatio n of relevant lab furniture, equipment and consumables	Activity 3.1 Arranging for national and international accreditation of programs
CHEXX	ACTIVITIES	Stablishment of effective research beams, discussion on stablishment of research topics relevant to the O&G areas:	Planning, preparation and implementation of a research seminar: conference room, logistics, banner, rollups, publicity, documentation (printing, copies)	Enrollmett, in 2018 confliences, preparation of materials to be presented of materials to be	Payment of subscription of SPE	Support to the SPE Student Chapter (contribution to the payment of some functional activities)	Payment of annual subscription to a relevant scientific journal	Offitie processes of liab furniture, equipment and consumbles; decision on terms to be acquired based on a prioritaming list; acquisition; installation and training	Stablishment of an accreditation committee; Planning the national and international accreditation routes; working toward national accreditation criteria (experies related to any goods or services required to achieve standarts); requiring accreditation by
	OBJECTIVE	To stablish O&G research teams and topics	To expose the students and researchers to presentation and discussion environment	Resarches from the Centre and key academic pathens in participate in national, regional and international OAG conferences	To subscribe SPE and benefit from their services and offers		To subscribe a reputable Journal and Scientific magazines provider to create a better scientific environment	To have well equipped laboratories or order to enhance the capability for practical traching/learning activities and research	To seek for national and international accreditation of the MSc programmes
	JUSTIFICATION	vibrant and robust research environment will be stablished and conditions will be created to produce sound research results Effective research teams will be built and interdisciplinary C&G topics will be established	The research environment is improved by exposing researchers and students to presentation and discussion of their scientific work	The exposure of researches from the Carte and key addent of the partners to presentations and discussions in missoul, regional and international OAG conferences will exhaus their capability and enhance the quality of their work.	Professors, students, and researchers benefit from the SPE multitude of resources and joint a	global network of engineers, researchers, and specialists in the OBG field	Access to convenient Oslo scientific magazines and jumas scientific magazines and jumas will enhance the quality of the research environment and allow professors, Researchers and Students to utilize those resources to produce scientific work based to produce scientific work based on updated state-of- art knowledge.	Laboration living experience will Contracts are established to the enhance the practical sailli or autodents and consolidate their theoretical background. At same carakyts, uncluding all the time, researches will have more incoded perferals for analytication, will be externelly valuable to their - Equipment for fluid and confidential confide	Accredited programs guarantee a good reputation for the institution and graduates
	оитрит	At least 20 MSc Students are engaged in research activities based on the topics identified, and at least 4 papers are published	A set of 2 research seminars are sorganized and delivered by researchers and students to present and discuss topics of interest in production and processing of Hydrocarbons		-	SPE Student chapter: accommodates all students of the MHPE (currently only students of the MPE belong to this chapter.	Subscription to Elivier margazines and journals is made (Engineering, Energy and Oil and Gas)	Corrocts are established to the acquaints of:  2 process units for teating of catalysts, including all the needed portifers is or analysical seems of the seems o	
	ESTIMATED BUDGET (\$)	\$6,000.00	\$3,500.00	\$9,000.00	\$3,000.00	\$1,000.00	\$30,000.00	\$300,000.00	\$5,000.00
	RESPONSIBLE UNIT	CS-OGET + MPE and MHPE Coordinators + Uniturio + ENPCT + Umak + NTNU + TUDelft	CS-OGET + MPE and M+PE Coordinators + Uniturio + ENPCT	CS-OSET + Uniturio + ENECT + Umak + NTNU + TuDelft	CS-OGET + Unilurio + ENPCT	CS-OGET + Coordinators of MPE and MHPE	CS-OGET + Coordinators of MPE and MHPE	CS-OEET + Coordinators of MPE and MI-PE	CS-OGET + Coordinators of MPE and MH-PE
Janua	January	×			×	×		×	The second
Year 2017 January - December	Febrary March	*		er er er er er er er	×	×	STATE OF STREET	*	
mber 2017	April May	*		A PART OF THE PART	×	*	×	×	
17	June July	×	×	*	×	×	*	* *	×
	August	×	*	*	×	×	×	×	×
$\ $	September October	×	*	*	×	x	×	*	×
11	November December	×	×	*	×	×	×	* *	*
11	Jecember								13

Universidade CENTRO REGIONAL DE EXCELENCIA EM ENGENHARIA DO PETROLEO E GAS-UEM

Mondlene

CENTER OF			Activity No			
OLOGICO IN CIN	2000		Activity No COMPONENT			
STREET, SALE SELECTION			SUB-COMPONENT ACTIVITIES	Activity 3.2 Arranging for external examination of MSc and PhD theses	Activity 3.3 - Monitoring, evaluation, verification and academic audit	Activity 3.4 Continuous supervision of research, approval and peer review before publishing
CENTER OF STODIES IN CHARACTERING WAS LECTURED OF OTT WAS GOOD IN CASE L'ON L'ON L'ON L'ON L'ON L'ON L'ON L'ON			ACTIVITIES	Design of na external examiner scheme; for average for na external Advertisement and reculting external examination scheme to tall examinates; implementation of the to the imperemented Mcc external examiner scheme (payment of programmes remunerations)	Internal and external evaluation and academic audit (payment of needed advisory consultancy and auditing services)	Stabishment of a supervision, peer Troilmenters a scheme for Troilmenters a scheme for supervision scheme with the supervision scheme (see search being continuously guarantee a better quality of all (remuneration of selected supervisors) supervisors, publications approved outniniation studies and research peer reviewed activities.
THORN FOR LOCK - DECEM			OBJECTIVE	or na external scheme to take over emented MSc	To create an academic auditing scheme to ensure a qualitative academic performance	To implement a scheme for research being continuously supervised, publications approved and peer reviewed
CALL CALL			JUSTIFICATION	MSc Thesis are externally examined and that fact contributes towards a better reputation of the programs	Systematic monitoring and assessment of the academic performance will guarantee will guarantee and manual the functional quality of all elements	The supervision scheme will guarantee a better quality of all culmination studies and research activities
			оитрит	External examinations is warranted to at least 50% of all thesis defendants	Academic activity will be systematically scrutinised with the aim of providing guidince for a permanent improvement of all academic processes and mechanisms (teaching and research)	50% of publications produced are peer reviewed
			ESTIMATED BUDGET (\$)	\$9,500.00	\$4,500.00	\$4,500.00
			RESPONSIBLE UNIT	CS-OGET + Coordinators of MPE and MHPE + Umak + NTNU + TUDelft	CS-OGET + Coordinators of MPE and M+PE + Umak + NTNU + TUDelft	CS-OGET + Coordinators of MPE and MHPE + Umak + NTNU + TUDeift
	1001	Jan	January	×		×
	M AVA	January - December 2017	Febrary	x		×
		Decem	March	*	Alexandra I	*
		iber 2	April	×		×
		217	June	*		×
		-	July	*	×	×
			August	×	*	×
		-	September October	×	*	×
			November	*	×	×
L	Ĺ	1	December	74	*	*



Act:					v				6	
vity No			11							
Activity No COMPONENT		Equity Dimensions			Attracting Academic Staff and Students from the Region				Collaborative Activities	
SUB-COMPONENT ACTIVITIES		Activity 4.1 Gender and academic career awareness creation initiative for national and regional representativiness	Activity 4.2 Engagement of people with disabilities and marginalised rural communities	Activity 4.3 Establishment of a Scholarship program for MSc and PhD to incentivate national disadvantaged young talented students	Activity 5.1 Building a strong advertisement program to attract regional students and staff	Activity 5.2 Establishing special support services for non-national students	Activity 5.3 Offering bridge courses	Activity 5.4 Establishment of a Scholarship program for MSc and PhD to attract and incentivate regional young talented thickness	Activity 6.1 National capacity building	Activity 6.2 Professors, researchers and students exchange
ACTIVITIES		Discussions and decision about the gender and academic awareness scheme and strategies; Implementation of the gender and academic awareness scheme (logistics for high school visits, publicity means, travel to selected provinces)	Establishment and implementation of a strategy for engagement of people with disabilities and from marginalized communities (logistics and travel to secondary and high schools in selected secondary and pright schools in selected services)	Scabilishment and implementation of a suchastiful softene for national sucients (a)exhibitionent and award of selected types of scholarshipp)	Design and implementation of advertisement campaigning strategy to attract regional students and staff (production and dissemination of advertising material)	Language courses (remuneration for facilitators); participation in local social and cultural events (logistics and related costs); organisation of a dedicated help desk	Bridge programs are stabilished and implemented (remuneration of lecturers involved and administrative costs)	Stablishment and implementation of a schokaliship scheme for regional students (a) dentisement and award of selected types of scholarships)	Meeds assessment; academic and public/private instantional agreements for implementation of actions towards capacity building	Definition of needs/opportunities for exchange; Selection of poterrial beneficiaries; implementation of the exchange program (travel and related
ОВЈЕСТІУЕ		To design and implement a national and regional strategy for gender OSG academic awareness	To implement a strategy to engage, people with disabilities and coming from marginalised rural areas.	To stablish and implement a national schodarship scheme to ahact and benefit young talented students	To have regional students enrolled in the MSc programmes and Regional staff being actively envolved in the Centre activities	To stablish and implement special support services for non-national students	To stablish and implement a bridge course squeme to support regional students in need to overcome specific gaps	To stablish and implement a regional scholarship scheme to alract and benefit young talented students	To stabish and implement to mational capacity busing strategy in order to share the toronicose produced at the Center	Stablishement and implementation of a student, professor and researchers exchange
JUSTIFICATION		Gender and academic career awareness creation initiative implemented at national and regional level will increase the female stident population in the MSC programmes	Disable and marginalised communities people should have equal opportunity to join the CSCORT training programmes.	National young talented students will be attracted and benefit from scholarships provided by the scholarships provided by the Centre, with special regard for talented young women, disable and marginalised communities people	Regonalisation of the Center is one of the most important objectives of the Center.	Regional students and staff will need support to overcome some barriers to social insertion (language) and for other specific needs	Regional students without a specific background in O&G will have a need for support to overcome their knowledge gaps though hadden support.	Regional young talented students will be attracted and benefit from scholarships provided by the chrite, with special regard for talented young women, disable and marginalised communities people	(Knowledge produced at the Centre shall be shared among other national relevant restbuctors, benefiting, in that way, national facular, researches and other experts in oil and gas.	Improved performance in teaching, research and learning.
оитрит		The percentage of female students in the C&G programs will jump from the typical 10% of the overall student population to about 20%	At least 10% of the student population come from marginalised communities or suffer from any form of disability	3 partial MSc scholarships are provided (emotiment and monthly fees); 2 full MSc Scholarships are provided (enrolment, monthly fees, accomposition and living allowance)	Regional students are 10% of the student population in 2017. Staff start to become interested and look for information. A regional staff database starts to be developed	Accommodation and language course are available for regional students	Regional students benefit of bridge courses to overcome difficulties and facilitate their integration in the respective	4 full MSc scholarships are provided (travel, enrolment fee, unition fees, living expenses)	At less 1 agreement with an nat \$5,000.00	2 faculty, 1 researchers and 1 student will have visited and worked in a partner or non-partner institution.
ESTIMATED BUDGET (\$)	3	\$6,750.00	\$3,750.00	\$15,000.00	\$6,000.00	\$8,000.00	\$10,000.00	\$34,000.00	\$5,000,00	\$37,500.00
RESPONSIBLE UNIT		CS-OGET + Coordinators of MPE and MHPE + Uniturio + ENPCT + Umak	CS-OGET + Coordinators of MPE and MHPE + Uniturio + ENPCT	CS-OGET + Coordinators of MPE and MHPE + Uniturio + ENPCT	CS-OGET + Coordinator of MPE and MHPE + Umak	CS-OGET + Uniturio + ENPCT	CS-OGET + Coordinators of MPE and MHPE	CS-OGET + Umak	CS-OGET	CS-OGET + Coordinators of MPE and MHPE + Umak + NTNU + TUDelft
ary	Janu	in Scapery (		×	×	*	×	×		
	Marc		Mark Sale	*	*	*	×	×		
	April May			* *	×	*	×	×		
	June	×	×	* *	*	*	×	×	×	×
ust	Augu	×	×	*	*	*	×	×		×
ember	Sept	*	*	*	*	×	×	*	×	X
ember	Nove	×	*	×	×	*	×	×	×	TTIX
ember	Dece	*	×	×	×	*	×	×	*	무나

Universidade

CENTRO REGIONAL DE EXCELENCIA EM

BNOENHARIA DO PETROLEO E GAS- UEM

BNOENHARIA DO PETROLEO E GAS- UEM

ENTER OF	CENTER OF STUDIES IN ENGINEERING AN	INEERING AND TECH	CENTER OF STUDIES IN ENGINEERING AND TECHNOLOGY OF OIL AND GAS (CS-OGET) WORK PLAN (JULY - DECEMBER 2017)	) WORK PLAN (JULY - DECEM	BER 2017)				Vour 3	2017								
									1001	1000			1					l
									Janua	W-D	lanuary - December	er 201	17	-				
Letivity No	Activity No COMPONENT	SUB-COMPONENT ACTIVITIES	ACTIVITIES	OBJECTIVE	JUSTIFICATION	оитрит	ESTIMATED BUDGET (\$)	RESPONSIBLE UNIT	January Febrary	March		April May	June	July	August	September	October	November
		Activity 6.3 Internship and field visits	Definition of reeds/opportunities for internships and field visits; contact to refevant institutions; implementation of the internship and field visits programs (travel and related costs)	To stablish a internship and field visit squeme	Exposure to a live industrial environment enhances the teaching and learning experience	5 internships and 2 field visits will have been completed	\$10,000.00	CS-OGET + Coordinators of MPE and MHPE					×	~	*	*	*	×
		Activity 6.4 Joint supervision, research and publications	tunities for I publications audents to be with esearchers and tudents ans isors and 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.	15 students (MPE) supervised by \$12,500.00	\$12,500.00	CS-OGET + Coordinators of MPE and MHPE + Uniturio + ENECT + Umak + NTNU + TUbelft					*	NEO ELIDINA	*	×	×	*
		Activity 6.5 Research engagement (R&D)	(logistics for ith stakeholders ent (visits and final design of 18	To engage the Center in R&D aiming to meet industry needs in specific challenges	Improved number and quality of research programs will be met to satisfy the specific needs of the industry al all levels	Strengthened capacity and quality of research.  Diversification of research topics in Oil and Gas field.	\$2,500.00	CS-OGET + Coordinators of MPE and MHPE + UniLurio + ENPCT	1000				*	4	*	*	×	×



	9			COL		7	Activity No	
	Monitoring and Evaluation			Management and Governance		Infrastruture Development	Activity No COMPONENT	CHAN
	Activity 9.2 Internal and External Auditing	Activity 8.4 Periodic perfomance reviews	n nal, and and and generals	Activity 8.1 Recruit staff and faculty	Acquisition of transport means, fuel and repairs	Activity 7.1  Civil works (upgrading and rehabilitation) for the building hosting the Center	SUB-COMPONENT	
	Internal and external audit	Establishment of a performance review system; Implementation of the periodic performance review (consulting services)	RSC meetings (local travel for selected 170 participate in national, neglocal, and international meetings). ACEL in egional, and international regional meetings (figured for CL and coordination and beachm. OCL and related costs). Travel to Chypa activates and events with Figure 17 participate in the control of the province of the pr	(TGR 5; Reculturest of staff and Guilty (TGR 5) Reculturest of staff and Guilty positions such as administrator, accountant and executive secretary)	Acquistion of a 49/D vehicle; fuel and maintenance	Planning/design; Schematic design; Design development; Construction documents; Bidding; Construction; Inspection and audit	ACTIVITIES	CHEAN
	To stablish and implement internal and external audit schemes	To establish and implement a perfomance review system	regional in national, regional, and international coordination and benchmarking activities and events	To enhance Audemic and administrative performance by recruiting silled and competent soff to bey administrative and academic positions	to provide the Center with a vehicle	To design and build (or renovate) facilities for the Center	овлестие	
	There is a need to get audited and approved all Center activities and Financial Reports	This activity entails a semestral review of the academic and administrative functions by the Control leadership members, followed by an annual Centre Council meeting for presentation of the findings and recoving on the first form the control of the findings and recoving the first form the council meeting for presentation of the findings and recoving the first form the council cou	In this activity, efforts will be made to the leaders of the Centre to participate in all ACE II coordination events. The Centre loyali also be received in the ACE in the control of the Centre of th	Aware of the task of expertate for CAG research, the Contra will recruit one Principal Investigator who is going to help in exabilishing a sound research exhibition as sound in will help in creating a spanisis networking environment. In Your 1, Tolk 1 for this positions will be developed and advertisement will be developed and advertisement will be developed and advertisement will be the chapter of a 2012. Additionally, although effects will be made to recruit flay. In the chapter is a sewer of the lumited pool of shilled people to fulfill positions such as fulfill positions such as fulfil	The Conter needs to have vehicles for various purposes starting with the Director transportation in 2017 and progressing in 2018 to another to multipurpose uses (counter, transportation, packages, staff transportation, perchangements)	The Certer needs to build or renovate an adequate building where its activities will take over	JUSTIFICATION	
	Statement of Approval of the CS- \$15,000.00 OGET Reports	Semestral review is made on the progress of the program prior to the planning of the following stage	Pardipation of the Leaders is all Pardipation of the Cantral and ACE II the Central tales responsibility for light specific responsibility for light specific appears of NCC Islandal meetings. Set of NCC Islandal meetings is 1801 with large partners (ENCT, URLIA'D, Umalk, Tu-Delft and MTNU).	One sour's Scientist recruited as principal investigator, box serior altiminatione offices recruited, one as Administrator and another one as serior secondarity one searchine secondarity one searchine.	3 -	3 nooms for laboratories, one meeting room, 4 working offices for the faculty, 2 administrative working rooms, 2 director and deputy director working rooms, 1 dascroom, 4 PhD working rooms, 1 computer room and anutiany heritims.	оитрит	
	\$15,000.00	\$3,000.00	\$50,000.00	\$29,700.00	\$60,000.00	\$562,500.00	ESTIMATED BUDGET (\$)	
	CS-OGET	CS-OGET; Coordinators of MPE and MHPE	CS-ORET + Uniturio +	CEOCETT	CS-OGET	C5-OGET	RESPONSIBLE UNIT	
			×	×	*	×	January	January
			*	×	*	×	Febrary March	
			NAME OF A PARTY.	×	×	*	April	- December 2
			* * * * * * * * * * * * * * * * * * *	ж ж ж	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	June July	2017
			A CANADA	and the second	×	X	August	
_	*	*	×	×	×	*	September	
_	×	*	×	×	×	×	November December	

