Module Descriptor							
	FM-ED	U-003	Rev. 002	Page 1 of	4	17-05-2014	BOTHO UNIVERSITY EXCLUSES ILLANGEMENT INNOVATION
Module Name		Innovation for Sustainable Development					
Module Code		E8-ISD-17		Version no.	02	Last Modified Date:	19-03- 2019
Level 8		8	Credits		20		
Aim		The overall aim of the module is to prepare students to develop solutions to meet laid down United Nations Sustainable Development Goals (SDGs). This is largely achieved through applying the design thinking process in a challenge driven human-centered, solutions-focused, action oriented manner to create innovative solutions. The students learn to identify and appreciate the human and environmental need behind a business opportunity.					
Rationale		Instead of traditional lectures, learning by doing is at the forefront of the design thinking process which nurtures creativity, self-competencies, group dynamics, project management, innovativeness and collaboration. Students will learn to work in small multidisciplinary groups, appreciate different views, cultures, develop patience, understanding and appreciate one another. They will also get immersed in a social environment wherein they identify challenge(s), reformulate problems and develop innovative and viable solutions that satisfy the needs of selected challenge givers and/or stakeholders.					
Pre-Requisites		None		Co-Requis	ites None		
			Campus Learning	g (CL)	Distance I	earning (DL)	
Delivery Approach		CL					
Notional Learning	Guided Learning		50				
Hours	Independent Learning		150				

100

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To be Filled By Accreditation Department [< Faculty code>/<Dep. Code>/<Programme Code>/<Module Code>/<Change Track>]

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Learning Outcomes	tcomes After passing the module the students should be able to:					
 Describe and apply systematic methods that and design thinking approach to different societal of 				•		
	 Appreciate the multidi problems; 	Appreciate the multidisciplinary learning process in solving societal problems;				
	 Define different typologies of challenges and explain how they relate to humans and then business; 					
	 Explain strategic and organizational problems related to innovation work; 					
	 Make assessments of the commercial potential of innovations; 					
 Write a brief business plan or gather potential of an innovation; 			formation neede	ed for assessing the		
	 Create and carry out a project plan; 					
	 Handle and tackle tech 	inical problems t	hat appear vagu	e and ambiguous;		
	 Independently collect problems; 	relevant data to :	solve technical a	and organizational		
	 Apply research in inno 	vation managem	ent and product	development;		
	 Communicate orally and done with data to back 	-	development p	rocesse(s) of work		
	 Study, judge and exchange 	ange feedback or	n project work in	a structured way.		
	 Work as a team and reflect on their own development (Self-competencies) and learning process. 					
	 Work collaboratively in a structured way, formulating, planning and carrying out a developmental project and coming out with a prototype and communicating with stakeholders and intended end-users. 					
	 Be able to relate to and promote awareness of the UN SDGs. 					
Assessment	Assessment Heading	Assessm	ent Type	Contribution (%)		
		CL	DL			

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			17-03-2014	UNIVERSITY EXCELLENCE LEADERSHIP INNOVATION	
	Attendance	N/A		5	
	Students should show participation by providing a signature on specified days.				
	Self-Reflective Essays An Essay based piece of writing that gauges the individual understanding of students in terms of; • Self-competencies • Group dynamics	Interim Self- Reflective Essay Submission		35	
	Project Report Assessment & Delivery For this project, deliverables consist of a draft plan, a set of presentation material, and an in-depth outline of the project based on the use of the Design Thinking Process.	Final Project Report Submission & Oral Presentation Delivery		60	
	Supplementary Assessment: Written Project Report of the Challenge.	Revised Project Submission		100	
Learning Resources	 Required reading: 1. Introduction to design thinking prepared by module facilitator(s); 2. Design Thinking (Innovation Trends Series) Kindle Edition, BBVA Innovation Center (EBook) 3. Design Thinking Methodology Book Kindle Edition by Emrah Yayici 				
	Reference Material: 1. Complete Design Thinking Guide for Successful Professionals Kindle Ling, Daniel Ling Delft Design Guide				

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	Open Education Resources: <to and="" be="" containing="" education="" electronic="" hyperlinks="" include="" information="" module;="" on="" open="" pages="" provided="" relevant="" resources="" this="" to="" web-based=""></to>				
Other Resources	Workshop examples from KTH and Youtube.				
Indicative Content	 Group dynamics:- It increases the group's efficiency and productivity. It increases the group's participation It increases group satisfaction. Running effective Multidisciplinary groups and encouraging the Design Thinking Process amongst groups. Developing facilitation skills Developing good research and analysis skills amongst students. Encouraging Students in Defining and analyzing real societal problems. Encouraging Students to put into practice their solutions using learnt self-competencies and group dynamics. 				