Course code	Course title	Responsible lecturer
FONC-625	Climate Change mitigation and	
	adaptation	
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Contents and goals	<u>Contents</u> :	
of qualification	Abiotic factors with relevance for climate, and the feedbacks of	
	ecosystems, atmosphere and hydrosphere. Climate systems, certain	
	stocks, fluxes of matter and land-use with examples from the tropics.	
	Biophysical and economic impacts of climate change on forests in	
	tropical and sub-tropical countries. Impacts of climate change on	
	socioeconomics of rural communities. Role and mechanism of forests for	
	climate change mitigation and adaptation. Vulnerability and resilience of	
	natural systems, Ecosystem services of forests. Payment for	
	environmental services and carbon projects. Global climate change	
	negotiations. Local perspectives of climate change based on case analysis,	
	estimation of aboveground and belowground carbon stocks in forests and	
	protected areas, impacts of climate change, impacts of climate change on	
	forests and protected areas, contribution of forests and protected areas to	
	climate change adaptation and mitigation.	
	Goals of qualification:	
	The students will acquire knowledge of climate change impacts as well as	
	adaptation and mitigation strategies from t	the perspective of forestry.
Modes of teaching	The course comprises:	
and learning	2 hr/wk Lecture and 3 hrs/wk practical (field visits, exercise, and	
	independent studies)	
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Applicability	Compulsory
Credits and	3 (2+3) Credit hour;
assessment	Seminar paper (30%), Group project and presentation (20%), Written exam (50%)
Text books	Freer-Smith PH. Broadmeadow MSJ. Lynch JM. (eds) 2007. Forestry and climate change. Columns Design Ltd, Reading, UK Recent peer reviewed journal papers published in the Ethiopian context shall be used for seminars