



# Soil Microbiology

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## Introduction

The section of Soil Science was among the oldest units of the Faculty of Agriculture teaching all soil science and related courses in the faculty. In 1976. The department launched a Bachelors and Master’s degree programme in Soil Science and thereafter a Doctoral programme. This programme aims to equip students with the scientific knowledge and skills required to tackle technical issues on management of agriculture-related aspects in the environment such as reduction or control of degradation and pollution, and promotion of environmentally acceptable and sustainable production practices.

### Head of Soil Section



**Mr. Joseph M. Ndotu**

Bsc(UoN),MSc (UoN), PhD (On-going)

A Lecturer, Graduated from University of Nairobi with BSc in Range Management and Msc Soil Science . He has supervised four MSc. Students with whom he has presented papers in conferences and currently writing journals. He has 3 publications. Mr Ndotu head Soil section in this department.

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### Soil Microbiology and MICERN Lab



**Prof. Nancy K.N. Karanja**



BSc (UoN),MSc (UoN),PhD( UoR)

She is a full Professor in Soil Ecology, and Director of Microbial Resources Centre (MIRCEN), University of Nairobi. She has many years of experience in BNF with legumes in SAA including managing inoculant production and use by farmers. She has also coordinated urban agriculture and it plays in addressing food insecurity and livelihoods to the urban poor and other related issues in SSA and has published widely in this subject. [Read More](#)



Currently [Chancellor of Dedan Kimathi University](#) of Science and Technology and professor of Land Resources Management and Agricultural Technologies, University of Nairobi. He attended Wang’apala, Kisii and Kakamega schools and graduated from Makerere University (BSc), Cornell University (MSc and PhD) [Read More](#)



<p><b>Prof. Shellemiah Okoth Keya</b> BSc (Makere),MSc and PhD(Cornell University)</p>	
 <p><b>Mr. Aggrey K. Mwala</b> BSc (UoN), MSc (UoN)</p>	<p>A lecturer in the Department of Land Resource and Agricultural Technology (LARMAT). He is a Soil Scientist Specialized in Soil biology and Fertility. He holds a BSc and MSc degrees from the University of Nairobi, Kenya. He has also attended many courses locally and internationally on advanced soil management. He has taught at the University of Nairobi since 1988. He has served as Chairman Farm Practice Committee and member of the Faculty Time Table Committee. <a href="#">Read More</a></p>
 <p><b>Dr. Anne N. Karuma</b> BSc (UoN), MSc (UoN), PhD (-----)</p>	<p>A lecturer in the Department of Land Resource and Agricultural Technology (LARMAT).....</p>
<p><b>Carolyn Odori Achieng (Mrs)</b> Dip,HND,BSc (TUK)</p>	<p>Carolyn Odori Achieng Senior Technologist, Department of Land Resource Management and Agricultural Technology (LARMAT) College of Agriculture and Veterinary Sciences, University of Nairobi, Kenya. She is a specialist in Microbiology techniques. Ms. Achieng was former Technologist (ABC ), in the Department of Plant Science and Crop Protection. <a href="#">Read More</a></p>
	<p>A Technologist Grade ABC in the Department of Land Resource Management and Agricultural Technology. He possess many skills including Preparation of practical material, Laying and cleaning of the laboratory, Production and Sale of Inoculants Preparing and setting green houses for soil micro biology research work. he has a work experience of over 24 years. <a href="#">Read More</a></p>



**Mr. Stanley Kisamuli**

DIP (UoN)

**Projects ongoing and past**

<p>Past</p>	<ul style="list-style-type: none"> <li>• <a href="#">Making the best of climate - Adapting agriculture to climate variability</a></li> <li>• Towards Increased Agricultural Productivity and Food Security in East Africa through Capacity Building in Agroecological Intensification”</li> <li>• Modelling the potential impact of climate change on sorghum (<i>Sorghum bicolor</i>) and cowpea (<i>Vigna unguiculata</i>) production in semi-arid areas of Kenya using the agricultural production systems simulator (APSIM)</li> <li>• Capacity Building in sustainable soil resource management and intergrated soil fertility management</li> <li>• Crop Production In Water Scarce Environments: Strengthening local capacity building as an exit strategy</li> <li>• Development And Uscaling Of Soil And Water Conservation Technologies. The case of ‘Macro – Contour lines’ in Kathekakai Settlement Scheme, Machakos District.</li> <li>• development of waterhole monitoring system for livestock early warning.</li> </ul>
<p>Ongoing</p>	<ul style="list-style-type: none"> <li>• Sustainable dryland project (Centre for sustainable Dryland ecosystems and societies)</li> <li>• Potential of productive and multiple water and waste (re-) use in Kajiado district</li> <li>• Potential of productive and multiple water and waste (re-) use in Kajiado district</li> <li>• Mapping the mind of consumers and traders of fresh vegetables at open-air markets with respect to food safety and security in Kenya: An application of the Zaltman Metaphor 28.Elicitation Technique (ZMET)</li> <li>• Evaluating ways of developing a fertilizer product from human excreta.</li> <li>• Putting Nitrogen Fixation to Work for Smallholder Farmers in Africa (N2Africa)</li> <li>• Improving bean yields by reversing soil degradation and reducing soil borne pathogens on small-holder farms in Western Kenya.</li> <li>• <a href="#">Creating Wealth For Smallholder Farmers In Arid Areas Of Kenya: The Case of Mukau (Melia Volkensii)</a></li> <li>• modelling of climate change effects on pastoral livestock production performance in arid northern kenya(Nurturing grant)</li> </ul>



	<ul style="list-style-type: none"> <li>• proposal for reserach grants on innovative application of ICTs in addressing water related impacts of climate change</li> <li>• Screening finger millet varities for the adaptation to drought prone ecological regions of estern kenya as a strategy to compact food insecurity and climate change</li> <li>• Building human and institutional capacity for enhancing the conservation and use of neglected and uderutilized species of crops in west Africa, and Eastern and Southern africa</li> </ul>	
<b>Degree courses or units</b>		
Undergraduate	<a href="#">Bsc Management of Agroecosystems and Environment</a>	
Postgraduate	<ul style="list-style-type: none"> <li>• <a href="#">MSc Land and water</a></li> <li>• <a href="#">MSc Soil Science</a></li> <li>• <a href="#">MSc Sustainable Soil Resource Management</a></li> <li>• <a href="#">Msc Management of Agroecosystems and Environment</a></li> <li>• <a href="#">PhD Dryland Resource Management</a></li> </ul>	
<b>Possible career opportunities</b>		
<ul style="list-style-type: none"> <li>• National and International Research Organization</li> <li>• Government Ministries a and Departments</li> </ul>	<ul style="list-style-type: none"> <li>• Teaching in Environmental/Natural Training Resources</li> <li>• Consultancy firms</li> <li>• Self Employment</li> </ul>	
<b>Alumni</b>		
<b>Year</b>	<b>No</b>	<b>View Lis</b>
2013	52	<a href="#">View</a>
2012	45	<a href="#">View</a>
2011	43	<a href="#">View</a>
2010	14	<a href="#">View</a>
2009	21	<a href="#">View</a>
2008	9	<a href="#">View</a>

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