

Noble Banadda Ephraim	
Sex	Male
Rank	Professor
Highest qualification	PhD
Department	Department of Agricultural and Bio systems engineering School of Food Technology, Nutrition and Bio engineering College of Agricultural and Environmental Sciences, Makerere University P.O. Box 7062, Kampala, Uganda
Professional Training and Experience	Noble received his Ph.D. in Chemical Engineering, from Katholieke Universiteit Leuven, Belgium in 2006. He holds an MSc in Processing Engineering from the Katholieke Universiteit Leuven (Belgium) and a BSc Food Science and Technology from Sokoine University of Agriculture (Tanzania).
Teaching subjects	FST 301 Food Engineering II FST 3104 Sanitation and Waste Management AEN 4106 Agricultural Materials, Design and Construction AEN 7101 Energy Conversion and Utilization AEN 7201 Bio-Engineering AGE 7201 Graduate Seminars FST 7204 Industrial Waste Management AEN 7230 Agricultural Materials, Design and Construction
Research Interests/Expertise	His primary areas of interest are Mathematical modeling; Food Processing Engineering; Waste Engineering; Renewable Energy; Chemical reactor design and optimization.
Publications	He has published widely including: <ol style="list-style-type: none"> 1. N. Kiggundu, S. Cherotich, Banadda N., D. Ogaram and I. Kabenge. 2016. Impact of diurnal and seasonal variation of raw water quality on treatability: A case of Gaba Complex Global Journal of Engineering Science and Research Management Journal Paper vol. 3 series, 2 pages 11 2. Daniel Kimuli, Ahamada Zziwa, Noble Banadda, Isa Kabenge, Nicholas Kiggundu, Robert Kambugu, Joshua Wanyama, Peter Tumutegyereize and Julia Kigozi 2016 Quantification Of Physico-Chemical Characteristics and Modeling Faecal Sludge Nutrients from Kampala City Slum Pit Latrines International Journal of Research in Engineering and Advanced Technology Journal Paper vol.3, series 6 pages 12 3. Samuel Gyebi Arhin, Noble Banadda, Allan John Komakech, Isa Kabenge and Joshua Wanyama 2016 "Membrane fouling and control in low pressure membranes: a review on pre-treatment techniques for fouling abatement" Environmental Engineering Research Journal Paper vol. 21 series, 2 pages 11 10.4491/eer.2016.017 4. Irene Nansubuga, Noble Banadda, Willy Verstraete and Korneel Rabaey 2016 A review of Sustainable Sanitation Systems in Africa Reviews in Environmental Science and Bio-Technology Journal Paper vol 15, series 3, pages 13 10.1007/s11157-016-9400-3 5. Nicholas Munu and Noble Banadda 2016 Can Cities Become Self-

	<p>Reliant in Energy? A Technological Scenario Analysis for Kampala, Uganda Environmental Engineering Research. Journal Paper vol. 21 3 series, pages 7 10.4491/eer.2016.023</p> <p>6. Irene Nansubuga, Noble Banadda, Willy Verstraete and Korneel Rabaey. A review of Sustainable Sanitation Systems in Africa. Reviews in Environmental Science and Bio-technology, 1-14, 2016</p> <p>7. Kyagulanyi J., Banadda N., Mulamba P., Kabenge I., Kiggundu N. and Muyonga J. Estimation of spatial and temporal grain amaranth water requirements using satellite, local and virtual weather stations datasets in Uganda. International Journal of Agricultural and Biological Engineering, 9(2): 85-97, 2016</p>
Innovations Developed and Awards Won	Invented the MV Muliimi tractor, solar powered irrigation pump
Research Projects	<p>1. Fruits and Vegetables for all seasons: Improved resource-efficient processing techniques and new markets for surplus fruits and vegetables for rural development in Sub-Saharan Africa; BLE Germany Government; EUR 976,200; Co-PI</p> <p>2. Capacity Building for Quality Graduate Training in Engineering in African Universities; INTRA ACP-EU MOBILITY; EUR 2,548,800; PI"</p> <p>3. Modeling of non-point source pollution in the Lake Victoria basin; SIDA; USD 150; 000; PI</p>
Professional Membership and Activities	Noble is a registered Professional Engineer in The Institution of Engineers Tanzania #MIET1572, Next Einstein Fellow Laurate, Fellow of the Uganda National Academy Sciences, Fellow of the Global Young Academy, Member of the American Society of Agricultural and Biological Engineers (ASABE) #1051201