

# MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY



## WEEKLY RESEARCH SEMINAR SERIES

**MUST Community and General Public are cordially invited to attend the 5<sup>th</sup> Research Seminar Presentation**

**INSTITUTE OF SCIENCE AND TECHNOLOGY (IST)**

**DEPARTMENT OF ELECTRICAL ENGINEERING**

**RESEARCH TOPIC: Emission Constrained Economic Dispatch using Moth Flame Optimization and Bat Hybrid Algorithm**

**SPEAKER : Mr. Wilbert Ruta (Masters in Electrical Power Systems Engineering )**

**BIOGRAPHY OF THE SPEAKER :** Mr. Wilbert Ruta is an Assistant Lecturer in the Department of Electrical and Electronics Engineering at Mbeya University of Science and Technology. Mr. Wilbert Ruta possesses an Ordinary Diploma and Bachelor Degree in Electrical Engineering both from Mbeya Institute of Science and Technology and a Masters Degree in Electrical Power Systems Engineering from Pan African University and Jomo Kenyatta University of Agriculture and Technology (Joint Degree). He is interested in researching on Electrical Power Systems Optimization. Mr. Wilbert Ruta is a Co-author of two research papers on Electrical Power Systems Optimization using Bio-inspired algorithms.



**R-ID NO: 0015**

**DATE: Wednesday 15<sup>th</sup> May, 2019**

**TIME: 04:00 PM**

**VENUE: NYERERE HALL**

**SUMMARY OF THE PRESENTATION:** The study focused on development and application of a novel Moth Flame Optimization and Bat hybrid algorithm in the area of emission constrained economic dispatch with the main goal of minimizing the cost of thermal electric generation and emissions from thermal power plants. The IEEE 30 bus test system was used for implementing the study while the results obtained were found to be promising in terms of cost and emissions reduction as compared to those reported in the literature.

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**SCHOOL OF HUMANITIES AND BUSINESS STUDIES (SHBS)**

**DEPARTMENT OF BUSINESS MANAGEMENT**

**RESEARCH TOPIC:** *The effectiveness of TASAF Intervention in Food Security of Vulnerable Communities in Makete and Rungwe Districts*

**SPEAKER :** *Dr. Asheri M. Mwidege (PhD in Agricultural Economics)*

**BIOGRAPHY OF THE SPEAKER :** Dr. Asheri M. Mwidege is a Senior Lecturer in the Department of Business Management of the Mbeya University of Science and Technology with both PhD and Masters Degree qualification awarded by Sokoine University of Agriculture, and a Bachelor Degree awarded by the University of Dar es Salaam. Dr. Mwidege has more than 21 years of experience in academics and his research interest area is on economics and project management. Dr. Mwidege has published more than 14 paper in peer-reviewed journals. Currently, Dr. Mwidege is the Director of Rohila Secondary School and the Acting Director of Postgraduate Studies, Research and Publications at Mbeya University of Science and Technology.



*R-ID NO: 0016*

**DATE: Wednesday 15<sup>th</sup> May, 2019**

**TIME: 04:45 PM**

**VENUE: NYERERE HALL**

**SUMMARY OF THE PRESENTATION:** This study examined the effectiveness of Tanzania Social Action Fund (TASAF) intervention in food security of the vulnerable communities in Makete and Rungwe districts. A sample of 192 recipients and 108 non-recipients were interviewed. A quasi-experimental design and Heckman selection model two stage estimation approaches were used to collect and analyze cross-sectional data, respectively. Survey findings showed that recipients in Makete district were significantly ( $P < 0.01$ ) food insecure than those in Rungwe district. Conversely, participants were insignificantly food insecure than non participants. Based on these findings, it was concluded that participation had no impacts on food security. Therefore, it is recommended that intervention should be on prevention basis rather than coping strategies so as to strengthen recipients from adaptive capacity for increased resilience for food insecurity risk.

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**COLLEGE OF ENGINEERING AND TECHNOLOGY (CET) DEPARTMENT OF SETTLEMENT PLANNING AND DESIGNING TECHNOLOGY**

**RESEARCH TOPIC: Implementing Building Information Modelling in Tanzania**

**SPEAKER : Dr. Juma Mpangule (PhD in Engineering Science)**

**BIOGRAPHY OF THE SPEAKER :** Dr. Juma Mpangule is a Lecturer in the Department of Settlement Planning and Designing Technology at the Mbeya University of Science and Technology with PhD qualification awarded by TU-Dortmund and both Masters and Bachelor Degrees awarded by Ardhi University. Dr. Juma Mpangule has more than 10 years of experience in academics and he is Quantity Surveyor by profession. His research interest area is on Building Information Modelling.



**R-ID NO: 0014**

**DATE: Wednesday 15<sup>th</sup> May, 2019**

**TIME: 05:30 PM**

**VENUE: NYERERE HALL**

**SUMMARY OF THE PRESENTATION:** In an effort to improve productive decision making in construction project management, Building Information Modelling (BIM) has increasingly shown a positive result in information integration. This study has specifically described the productivity of BIM in Total Cost Management and suggested the crucial parameters necessary for the BIM adoption in Tanzania, as its contribution in the appraising of the value of BIM for the country. Through a cross-sectional design the hypothesis was not rejected, proposing that BIM Usage has no significant impact to the completeness of the Bills of Quantities. Despite the fact that the study concluded on the presence of low BIM practice in Tanzania, it was recommended that there is a need for more rigorous testing and re-testing of other BIM parameters like collaboration.

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