Curriculum Vitae

Full Name: Hassan Ibrahim Mohammed

Education:

1- **Diploma in Farm Irrigation System Design and Evaluation and On-farm Irrigation Scheduling at International Irrigation Center - Department of Agricultural Engineering Utah State University Logan – Utah, USA (1991).**
2- **Attained Academic Courses.**
   - **Surface Irrigation Design.**
   - **Surface Irrigation Engineering.**
     At Department of Agricultural Irrigation Engineering Utah State University Logan Utah- USA (1991).
3- **20th International Course on And Drainage at International Agricultural Center – The International Institute for Land Reclamation and Improvement and The International Agricultural Center – Wageningen, The Netherlands (1981).**
4- **Diploma – International Courses on Irrigation of Agricultural Crops held by Institute for Field and Vegetable Crops in cooperation with The Agricultural University of Wageningen and The Institute for Land Reclamation and Improvement – Wageningen – The Netherlands. Held at Navisad-SFR Yugoslavia (July 1, - October 30, 1979).**
5- **Training Course: Design and Evaluation of Irrigation Systems (Nov. 1988) Arab Organization OF Agricultural Development in Collaboration with Ministry of Agriculture and Fisheries – EL Ain , United Arab Republic Emirates.**

6- **Ph.D. February 1992**
   - **Department of Agric Engineering Faculty of Agricultural Sciences, University of Gezira Wad Medani Sudan Major Field of Study Irrigation Engineering with Specialization in On-Farm Irrigation and Land Leveling Machinery**
   - **Thesis Title: "Analytical and Optimization Decision-making Models for Multi-objective On-farm Irrigation Improvement".**
7- **M.Sc. March, 1982**
   Department of Agricultural Engineering Faculty of Agriculture University of Khartoum Shambat Sudan.
   Thesis Title: "Hydraulics of Long Farrow Irrigation with Reference to Rahad Irrigation Project".
8- **B. Sc. September, 1976**
   Faculty of Agriculture, University of Khartoum Shambat, Sudan. Major Field of Study: Agricultural Mechanization

(Honors) Second Class, Five years Study Covering courses in Agricultural Sciences with emphasis on mechanization and irrigation., Languages of Studies for B.Sc., M.Sc. and Ph. D. is English.

Academic Appointment at SUST:

2005-to date: **Associate Professor, Department of of Agricultural Engineering Faculty of Agricultural Studies, Sudan University of Science and Technology.**

2003 – 2005: **Head Department of Agricultural Engineering Faculty of Agricultural Studies, Sudan University of Science and Technology.**

2000 – 2003 **Assistant Professor, Head of Irrigation and Drainage Section at Department of Agricultural Engineering, Faculty of Agricultural Studies, Sudan University of Science and Technology**

Other Related Experience

1. **Team leader: Feasibility and Design Of Abu Hamra Water Harvesting Project. North Darfour 2005-2006.**
2. **Team leader: Feasibility and Design Of Um Bayada Rural Development Project. North Darfour 2006-2007.**

Member ship in Professional Societies:

- **Sudanese Agriculturalist Council, 1982. , member.**
- **National Council of Mechanization of Sudan, 1996. , member.**
- **Consultative committee – Rahad Corporation –Farmer Union, Ministry of Irrigation and IIMI- Sudan for Water Management in Rahad Scheme, 1997. (member)**
- **Member of Faculty Board, Faculty of Agricultural Studies, Sudan University of Science and Technology, 2003.**
- **Rahad` Corporation Board of Directors, 1984. –member**

Honors & Grants:

Water Harvesting Study in Dry Land Areas-The case of Gadarif rain fed areas. .Research Project as grant from Ministry of Higher Education-2007

Publications:

1. **Bakhit S. E., El Shami, O.M and Mohamed, H.I. (2000) Field Operating Parameters Affecting Harvesting Losses of Wheat in Rahad Scheme. (Sudan, University of Khartoum, Journal of Agricultural Sciences 8(10) 134-150.**
2. **Bakhit S. E.,El Shami, O.M and Mohamed, H.I. (2004) Management Parameters Affecting Harvesting Losses of Wheat in Rahad Scheme. (Sudan, University of Khartoum, Journal of Agric Sciences 12(3) 405-414.**
3. **Al Fadil A. D., Ali, A.M and Mohamed H.I. (2004) Soil Moisture Content as a Determining Factor for Machinery Selection:**

I: Development of a computerized simulation model for the prediction of daily fluctuation in soil moisture content. Gezira Journal for Agricultural Science 2(2).

4. Al Fadil A. D., Ali, A.M and Mohamed H.I. (2004) Soil Moisture Content as a Determining Factor for Machinery Selection:

II: Determination of Soil workability for Tillage operations as a function of soil moisture content. Gezira Journal for Agricultural Science 2(2).

5. Al Fadil A. D., Ali, A.M and Mohamed H.I. (2004) Soil Moisture Content as a Determining Factor for Machinery Selection:

6. Estimation of Field Working Days for Machinery Selection Under Dry-farming Condition. Gezira Journal for Agricultural Science 2(2).

7. Abass, O.M., Mohamed H. I. And El Shami O.M (2005). Derivation of A Mathematical Model to Describe the Threshing Process for Different Crops. Sudan University of Science and Technology, Journal of Sciences and Technology, Vol (1)78-88.

8. Abass, O.M., Mohamed H. I. And El Shami O.M (2005). Modification and Performance of Multi-crop Thresher. Sudan University of Science and Technology, Journal of Science and Technology, Vol (1)89-107.

9. Musnal H.A, Musa, T.E., Mohamed, H. I., Hassan A E, El Obied A. M., El Gamri T,Hamid I. H, Yousif, A. Y., El Mahal A. E. and Mohammed A. G. (2000). Integrated Water Resources Management, Sudan University of Science and Technology, Scientific Research and Foreign Affairs Center. Technical Paper Series TPS No (2) pp 64.

10. Bakhit S. E., El Shami, O.M and Mohamed, H.I. (2006) An Emprical Simulation Model Of Costs Of Wheat Combine Harvesting Losses In The Rahad Scheme- Sudan. Sudan University of Science and Technology, Journal of Sciences and Technology, Vol (7) 84-97.

11. Osama A. Muhi eldeen, Omer A. Rahama and Hassan I. Mohemed (2005). Effect of tire Lug height, forward speed and cast iron ballast on tractor performance. Gezira Journal of Agricultural Science. Deanship of Graduate.

cast iron ballast on tractor performance. Gezira Journal of Agricultural Science. Deanship of Graduate.

Institutional and Professional Services

2005-to date: **Associate Professor, Department of of Agricultural Engineering Faculty of Agricultural Studies, Sudan University of Science and Technology.**

2003 – 2005: **Head Department of Agricultural Engineering Faculty of Agricultural Studies, Sudan University of Science and Technology.**

Professional Activities and Consultancies

1. Consultant for Greater Nile Petroleum Company and for Solar Energy Company for the disposal and bio-

remediation of produced water in Higlig basin 2000-2002

2. **Consultant, design and implementation of drip irrigation System, Sidgo Farm, West Omdurman- 2002**
3. **Member, Feasibility Study of Agricultural Service Center, Mahjoub Awlad, 1998.**
4. **Member, Feasibility Study of Agricultural Service Center, Military Corporation, Sudan University Consultancy and Studies Unit, 2002.**
5. **Rehabilitation and Modernization Study for Abu Habel Agricultural Project 1998.**
6. **Design and consultancy for Sawlail Company Farm 80 ha) for installation of submersible pump and 1.5 km main pipe line for surface and sprinkler system using hydroflume (gated pipe) 2001.**
7. **Member, technical and economic feasibility and design of Trabi-Sugar Production Scheme at white Nile for Newtech. Consultancy Company. 2003.**
8. **Member, Consultancy team for privatization of Agricultural Engineering Department of Rahad Corporation Sudan 1995.**
9. **Member Board of Directors University of Gezira Service Company 1995.**
10. **Member Board of Quality of Control of Agricultural Machinery – Sudan Quality Control Unit 1996.**
11. **Consultant, Farmer Bank for Agricultural Engineering 1996.**
12. **Registered Design and Fabrication of Kenaf Harvesting Machine, Ministry of Justice 1998.**
13. **Registered Design and Fabrication of minimum tillage cheisel-ridger implementing collaboration with MF-British Company 1998.**
14. **Registered Design and Fabrication of Planter-ridger machine 2000.**
15. **Registered design and fabrication of Multi-crop Thresher 2002.**
16. **Team leader: Feasibility and Design Of Abu Hamra Water Harvesting Project. North Darfour 2005-2006.**
17. **Technical Advisor for Lamir International Company, Tender Design of Marawi Irrigation Project. 2005-2006.**