



## Hegazi F. Ibrahim

Assistant Prof.

### EDUCATION

---

- **Ph.D., In philosophy in Engineering, Electric Communications Engineering, Oct. 2018 Mansoura University, Egypt.**  
"Quality of Access Optimization for Streaming Multimedia Over Wireless Networks"
- **M.Sc., in Engineering, in Electrical Communication Engineering, Feb.2014, Faculty of Engineering.** " Improving QoS for IPTV based WiMAX"
- **B.Sc., in Electronics and Communications Engineering, July 2010, Faculty of Engineering, Mansoura University, Mansoura, Egypt.**

### ACADEMIC EXPERIENCE (FULL-TIME)

---

- **Assistant Professor** at Communication and Electronics Department, Nile Higher Institution of Engineering and Technology, October 2019.
- **Lecturer** at Electrical Eng. Dept., Faculty of Eng., Jouf University, Sakaka, KSA. Sep. 2016.
- **Assistant Professor** at Electrical Communication Engineering Department of Communications and Electronics, Nile Higher Institution of Engineering and Technology, Mansoura, Egypt. 2018.
- **Teaching Assistant** at Electrical Communication Engineering Department of Communications and Electronics, Nile Higher Institution of Engineering and Technology, Mansoura, Egypt. 2016.
- **Instructor** at Electric power Eng. Dept., Higher institution of engineering and technology in New Damietta. Sep. 2010 – May 2014.

### NON-ACADEMIC EXPERIENCE (FULL TIME)

---

- **Site engineer and supervisor** of designs for the communication stations of both:
- **AIRTEL Indian Company** (Nairobi - Kenya) in the period from **25/1/2012 to 25/2/2012.**
- **NEC Corporation of Japan** (Lusaka - Zambia) in the period from **1/3/2012 to 25/4/2012.**
- **Company MTN** (Johannesburg - Cape Town - South Africa) in the period from **1/5/2012 to 5/6/2012.**

### PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

---

- A certificate of training in the field of communications, **NEC** has a main branch in the state of Kenya **28/10/2011** and recorded a number **NRB/TC/018ip-02/04/05.**
- Holds a certificate of accreditation from the Higher Institute of Engineering State of Zambia on **20/3/2012** and approved by the State Institute of Cambridge Britain and registered number. **EIZ NO.0130247734.**
- **IEEE Communications Society Membership - Jul 2022**



## PROFESSIONAL ORGANIZATIONS

---

- Jouf University, Sakaka, KSA.
- NEC COOPERATION (Kenya)
- MTN COMPANY (South Africa)
- ZANTEL COMPANY (Zambia)
- AIRTEL COMPANY (MALAWY)

## HONORS AND AWARDS

---

- Jouf university award in scientific research and quality of publication 2017.
- Deanship of Quality and Accreditation - Jouf University - KSA -May 2021
- A certificate of thanks and appreciation as a quality coordinator for the effective and sincere participation that contributed to the electrical engineering program obtaining full academic and program accreditation from the national ETEC for the period from May 2021 until April 2028
- Deanship of Quality and Accreditation - Jouf University – KSA-Sep 2022 - Present
- A certificate of thanks and appreciation as a quality Coordinator for the effective and sincere participation in meeting the requirements of institutional accreditation, which contributed to the university's obtaining full institutional accreditation for the period from May 2021 until April 2028
- Deanship of Quality and Accreditation - Jouf University- KSA -May 2021
- A certificate of thanks and appreciation as a quality coordinator for the effective and sincere participation that contributed to the electrical engineering program obtaining full academic and program accreditation from the ABET for the period from October 2020 until September 2026.
- Certificate of Honor from the President of Al-Jouf University in the Kingdom of Saudi Arabia - May 2021
- Al-Jouf University extends its thanks and appreciation for the sincere and effective efforts within the work teams to fulfill the requirements for academic and program accreditation until obtaining full accreditation from the ETEC from May 2021 until April 2028.

## PUBLICATION LIST

---

1. M.A. Mohamed, Mohey.E. Abou-Elsoud and Hegazi.Ibrahim,"Improving QoS for IPTV over WiMAX Networks", IEEE Transactions on Networking, 23rd ICCTA, Alexandria, ID 48\_2 , Vol.12, Issue 8, PP 96:101, 2013.
2. M.A. Mohammed, M.A. Abou-Elsoud and H. Ibrahim, "Effect of WiMAX Networks on IPTV Technology", IJCSI International Journal of Computer Science Issues, Vol. 10, Issue 6, No.2, PP 235:243, November 2013.
3. M.A. Mohammed, and Hegazi Ibrahim, "QoS Optimization for Multimedia Streaming using Hybrid RRM and DASs over LTE Networks", The Second Euro China Conference on Intelligent Data Analysis and Applications ECC 2015, 29-31 July 2015, Ostrava, Czech Republic,2015, Springer; 305-318.



4. M. A. Mohamed, M. Zubair, and H. M. Ibrahim, "QoS Based IPTV Over Mobile WiMAX Networks," *Wirel. Pers. Commun. (Springer)*, vol. 96, no. 2, pp. 1711–1740, 2017.
5. M. A. Mohamed and H. F. Ibrahim, "Performance Evaluation for Video Streaming Data over LTE-A Networks," 12th International Conference on Computer Engineering and Systems (ICCES), IEEE Xplore Digital Library, DOI: 10.1109/ICCES.2017.8275396, pp. 701-707, 2017.
6. M. A. Mohamed and H. Ibrahim, "Studying the Performance of Streaming Data over LTE-A Networks based on HARQ Mechanism," *International Journal of Scientific and Engineering Research (IJSER)*, vol. 9, no. 2, pp. 1289–1297, 2018.
7. Samrah, A.S., Khalil, A.T. and Ibrahim, H.M., "Improving Quality of Service for Internet Protocol Television and Voice over Internet Protocol over Long-Term Evolution Networks", *Int. J. Communication Networks and Distributed Systems [IJCNDs]*, vol.22, No.4, 409-446, 2019.
8. Hegazi Ibrahim and Hesham Sakr, "Improving QoS for Accessing Multimedia Streaming Data over 5G networks using RRM and Smart Antenna Techniques", *Wireless Mobile Communications*, "Under Publication".
9. H.A. Sakr, H.M. Ibrahim, and A.T. Khalil "Impact of Smart Power Efficient Modes on Multimedia Streaming Data beyond 5G Networks ", *Wireless Personal Communications*, doi.org/10.1007/s11277-022-09573-6, April 2022.
10. Abd El-Mawla, N., & Ibrahim, H. (2022). Green Cloud Computing (GCC), Applications, Challenges and Future Research Directions. Journal Webpage: <https://njccs.journals.ekb.eg>, 2(1).
11. Ibrahim, H., Abd El-Mawla, N., & Team, G. (2022). Proposed Model for Sustainable and Scalable Vertical Farm. Journal Webpage: <https://njccs.journals.ekb.eg>, 2(1).

## PROFESSIONAL DEVELOPMENT

### 1. Quality Assurance Committee – JOUF University – KSA for the following academic years (Institutional and Program Accreditation)

2016/2017.  
2017/2018.  
2018/2019.  
2019/2020.  
2020/2021

### 2. Laboratories Committee – JOUF University – KSA for the following academic years:

2016/2017.  
2017/2018.  
2018/2019.  
2019/2020.  
2020/2021

### 3. Strategic Plan Committee (Institutional) – Executive Plan Committee and its follow-up (Electrical Engineering Program) – JOUF University – KSA for the following academic years



2016/2017.  
2017/2018.  
2018/2019.  
2019/2020.  
2020/2021

**4. Program Accreditation Committee for NCAAA Criteria and the Supervisor for Standards 1 and 2 – Electrical Engineering Program– JOUF University – KSA.**

2018/2019.  
2019/2020.  
2020/2021

**5. ABET Coordinator – Electrical Engineering Department – Joutf University – KSA – (2017-2021)**

**Academic Affairs Committee** JOUF University – KSA for the following academic years:

2016/2017.  
2017/2018.

**6. Graduation Projects Committee – JOUF University – KSA for the following academic years:**

2016/2017.  
2017/2018.

**SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)**

---

- **Working on the accreditation standards and writing self-evaluation (SESP) and self-study reports (SSRP) for both accreditation criteria's NCAAA and ABET.**
- **Preparation Program and Institutional strategic plan and their annual reports.**
- **Measuring course learning outcomes (CLOs) and make mapping with program learning outcome (PLOs) and Key Performance Indicators (KPIs). (National Accreditation).**

**TRAINING WORKSHOPS**

---

1. **Achieving and Writing Scientific References Electronically | Center for Skills and Abilities Developments at Al-Jouf University, University Vice Presidency for Development and Quality, Saudi Arabia , Sakaka - Jouf - Saudi Arabia Feb 2020**
2. **Use of Technology in Teaching | Center for Skills and Abilities Developments at Al-Jouf University, University Vice Presidency for Development and Quality, Saudi Arabia , Sakaka - Jouf - Saudi Arabia -Feb 2020**



3. Recent Trends in Higher University Education | Center for Skills and Abilities Developments at Al-Jouf University, University Vice Presidency for Development and Quality, Saudi Arabia , Sakaka - Jouf - Saudi Arabia -Feb 2020
4. Publication Mechanisms in ISI Journals | Center for Skills and Abilities Developments at Al-Jouf University, University Vice Presidency for Development and Quality, Saudi Arabia , Sakaka - Jouf - Saudi Arabia -Aug 2019
5. Electronic Analysis and Design for Electronic Surveys | Center for Skills and Abilities Developments at Al-Jouf University, University Vice Presidency for Development and Quality, Saudi Arabia , Sakaka - Jouf - Saudi Arabia -Mar 2021
6. Quality Aspects in Designing Electronic Courses | Center for Skills and Abilities Developments at Al-Jouf University, University Vice Presidency for Development and Quality, Saudi Arabia , Sakaka - Jouf - Saudi Arabia -Sep 2020
7. Key Performance Indicators (KPIs) for Academic Programs | Center for Skills and Abilities Developments at Al-Jouf University, University Vice Presidency for Development and Quality, Saudi Arabia , Sakaka - Jouf - Saudi Arabia Aug 2020
8. Statistical Analysis Using SPSS | Center for Skills and Abilities Developments at Al-Jouf University, University Vice Presidency for Development and Quality, Saudi Arabia , Sakaka - Jouf - Saudi Arabia -Mar 2021.
9. Internal Audit - (2-3/1/2022)- Nile Higher Institute of Engineering and Technology
10. External review - (6-7/2/2022) - Nile Higher Institute for Engineering and Technology.
11. Effective Communication Skills - (22-23/1/2022) - The Nile High Institute for Engineering and Technology.