Hesham Ali Sakr
Assistant Prof.

EDUCATION

- **Ph.D., In philosophy in Engineering, Electric Communications Engineering, Jan. 2020 Mansoura   University, Egypt.**
  " Development of Accessing Multimedia Services over Wireless Technologies"
- **M.Sc., Master of science in Engineering, in Electrical Communication Engineering, Sep.2014, Faculty of Engineering, 2020 Mansoura   University, Egypt. "** Development of VoIP Systems using MPLS"
- **B.Sc., Science in Electrical Engineering, Aug 2009, Faculty of Engineering, 10th of Ramadan Engineering, 10th of Ramadan, Egypt**.

ACADEMIC EXPERIENCE (FULL-TIME)

- **Assistant Professor** at Communication and Electronics Department, Nile Higher Institution of Engineering and Technology, October 2020.
- **Lecturer** at Network and Computer Engineering Department, IPA - Abha, Saudi Arabia. Aug. 2015.
- **Assistant Lecturer** at Electrical Communication Engineering - Department of Communications and Electronics, 6th of October university, 6th of October, Egypt,10/2013 to 08/2015.
- **Teaching Assistant** at Electrical and Computer, 10th of Ramadan Engineering, 10th of Ramadan, Egypt, 08/2009 to 12/2013.

NON-ACADEMIC EXPERIENCE (FULL TIME)

- **Instructor** (YAT Training Centre-Egypt -2009-2013).
- **Instructor** (SEGMA Training Centre -Egypt- 2013-2015).
- **Instructor** (New Horizon-GULF Training Centre -KSA -2016-2017).

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

1.CCNA.
2.CCNP.
3.CCIP.
4.CEH.
5. MCSE.
6. MSCA.
7. MCITP.
8. Huawei Security.

PROFESSIONAL ORGANIZATIONS

- IPA Institute of Public Administration, Abha, KSA.
- 6th of October University-Egypt.

HONORS AND AWARDS

None.

SERVICE ACTIVITIES (INTERNAL AND EXTERNAL)

- Preparation of **Program Annual Report** through definite **KPIs**.
- Measuring **Course Learning Outcomes (CLOs)** through Mapping with **SOs.**

PUBLICATION LIST

1. M. Abdel-Azim, M., Awad, M. M., & Sakr, H. A.," VoIP versus VoMPLS Performance Evaluation", International Journal of Computer Science Issues (IJCSI), 11(1), 194, 2014.
2. M. Abdel-Azim, M., Awad, M. M., & Sakr, H. A.," RSVP Based MPLS versus IP Performance Evaluation", Mediterranean Journal of Computers and Networks (MEDJCN), 10(2), 2014.
3. H.A.Sakr, and M.A.Mohamed, "Performance Evaluation Using Smart: HARQ Versus HARQ Mechanisms Beyond 5G Networks", Wireless. Pers. Communication (Springer), pp.1-26, ISSN:1572-834X, June 2019.
4. Abeer Twakol Khalil, A. I. Abdel-Fatah and Hesham Ali sakr, "Rapidly IPv6 multimedia management schemes based LTE-A wireless networks", International Journal of Electrical and Computer Engineering (IJECE),vol. 9, no.pp. 3077-3089,2018.
5. H. A. Sakr, A. I. Abdel-Fatah, A. T. Khalil, "Performance Evaluation of Power Efficient Mechanisms on Multimedia over LTE-A Networks", International Journal on Advanced Science, Engineering and Information Technology, (IJASEIT), vol. 9, no. 4, pp.1096-1109, 2019 .
6. H.A. Sakr and M.A. Mohamed, 'Handover Management Optimization over LTE -A Network using S1 and X2 handover', Proc. of The Seventh International Conference on Advances in Computing, Electronics and Communication – ACEC 2018, ISBN: 978-1-63248-157-3 doi: 10.15224/978-1-63248-157-3-11, pp. 58–64, 2018.
7. Hesham Sakr and Hegazi Ibrahim, "Improving QoS for Accessing Multimedia Streaming Data over 5G networks using RRM and Smart Antenna Techniques", Wireless Mobile Communications, "Under Publication".
8. Sakr, H. A., Ibrahim, H. M., & Khalil, A. T. (2022). Impact of Smart Power Efficient Modes on Multimedia Streaming Data Beyond 5G Networks. Wireless Personal Communications, 1-37.
9. Abdul M. Soomro, et al. (2023). "Constructor Development: Predicting Object Communication Errors", Wireless Mobile Communications, "Under Publication".
10. Abdul M. Soomro, et al. (2023). "In MANET: An Improved Hybrid Routing Approach for Disaster Management", Wireless Mobile Communications, "Under Publication".
11. Mansour, Nehal A., and Hesham A. Sakr. "The Role of data mining in healthcare Sector." Nile Journal of Communication and Computer Science 4.1 (2022): 1-11.

PROFESSIONAL DEVELOPMENT

- **Director of E-Learning Unit.**
  At Nile Higher Institute for Engineering and Technology, Mansoura City, Egypt.
- **QAU Coordinator**
  At Communications and Electronics Department- Nile Higher Institute for Engineering and Technology, Mansoura City, Egypt.

- **International Reviewer**
    1. IEEE Access.
    2. International Journal of Wireless Communications and Mobile Computing.
- **IEEE Membership Society**
- **Laboratories Committee – IPA– KSA (2015-2021)**
- **KSA Strategic Plan 2030 Committee – IPA– KSA (2019-2021)**
- **Graduation Projects Committee – IPA– KSA (2016-2019)**
- **Project Supervision Committee- IPA -KSA for**
    - ✓ Control and protect WANs using a remote ACS server. **6ᵗʰ of October 2015**
    - ✓ Managing the technical college network using the Redhat server. **IPA – Saudi Arabia 2015.**
    - ✓ Managing Voice Networks Using Centos Server. **IPA – Saudi Arabia 2016.**
    - ✓ Managing voice networks using Redhat server in a network and securing it using ASA devices. **IPA – Saudi Arabia 2017.**
    - ✓ Networking techniques using VPN, VSAT and Leased line. **IPA – Saudi Arabia 2017.**
    - ✓ Mechanisms of Digital Forensics in Cybersecurity. **IPA – Saudi Arabia 2018.**
    - ✓ Mechanisms of system penetration Concepts, Attack Methods, and Defense Strategies. **IPA – Saudi Arabia 2018.**
    - ✓ Techniques for Detecting and Preventing IP Sniffing Amplification Attacks. **IPA – Saudi Arabia 2019.**
    - ✓ Controlling and protecting Wide broadband networks using ACS server against attacks. **IPA – Saudi Arabia 2019.**
    - ✓ A Framework for Confidential Document Leakage Detection and Prevention. **IPA – Saudi Arabia 2020.**
    - ✓ Techniques for Detecting and Preventing IP sniffing amplification Attacks. **IPA – Saudi Arabia 2021.**

Training Workshops

1. Application of National Academic Reference Standards NARS 2018 Engineering Sector – (5-6/7/2020) – Nile Higher Institute for Engineering and Technology.
2. Description of programs and courses according to NARS 2018, engineering sector - (12-13/7/2020) - Nile Higher Institute of Engineering and Technology.
3. E-learning - (6-7/9/2020) - Nile Higher Institute for Engineering and Technology.
4. Using electronic platforms - (20-21/9/2020) - The Higher Nile Institute for Engineering and Technology.
5. The system of credit hours and academic advising - (4-5/10/2020) - Nile Higher Institute of Engineering and Technology.
6. Hybrid Education - (11-12/10/2020) - Nile Higher Institute of Engineering and Technology.

7. Fundamentals of Scientific Research - (2-3/12/2020) - Nile Higher Institute for Engineering and Technology.
8. Statistical analysis using the SPSS program (2-3/1/2021) The Nile Higher Institute for Engineering and Technology.