

CURRICULUM VITA

Name Prof. Dr. *Abdelkader Abdelkarim Ibrahim*
Birth Date 28 Dec. 1960 - Egypt
Major specialty Mechanical Engineering
Minor specialty production Engineering, System Dynamics
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Academic Edu <https://independent.academia.edu/AbdelkaderIbrahim>
ResearchGate <https://www.researchgate.net/profile/Aa-Ibrahim>
Linked-in www.linkedin.com/in/dr-abdelkader-attia-20168b53



QUALIFICATIONS

- Ph.D.** Mechanical Eng. (Design and production Engineering), Zagaaig University, 1990.
- M.Sc.** Mechanical Eng. (Design and production Engineering), Zagazig University, 1987.
- B.Sc.** Mechanical Eng. (Design and production Engineering), Zagazig University, with general grade “Excellent with honor degree” MAY 1983.

The most important leadership experiences:

1. **Acting President** of Misr University for Science and Technology, Feb. 2022.
2. **Vice President** of Misr University for Science and Technology for Quality and Accreditation Affairs. Academic year 2021/2022.
3. **Dean** of the Institute of Aviation Engineering and Technology - from Feb. 2017 to Jan. 2021.

(Most important achievement is accreditation of the institute by the Union of Arab Engineers and Apply for accreditation from the National Authority for Quality

Assurance of Education).

4. **General Coordinator** for Administrative Quality - Benha University - from Dec. 2016 up to now.

(The University has obtained the ISO 9001-2008 in March 2017, and ISO 9001-2015 in March 2018, and 2020).

5. **Head of Quality and Accreditation** Department, Yanbu Industrial College, Royal Commission in Yanbu - from Feb. 2009 to July 2013.
6. **Director of Quality, Accreditation** and General Coordinator for communication with the international academic accreditation bodies in the colleges and institutes sector - Royal Commission in Yanbu from 2011 to 2013 - where the Royal colleges and institutes of Yanbu have received international accreditation from ABET, ACBSP and CEA.
7. **Coordinator** of general Subjects in Special Programs - Faculty of Engineering, Shoubra Faculty of engineering, Benha University- from 2017 to 2018.
8. **Expert in the Project Management Unit** - Ministry of Higher Education - Director of New Programs and International Accreditation of Laboratories – 2013 to 2014.
9. **Participate in the evaluation** of high institutes of engineering and technology (Industrial and engineering Institutes committee) from 2013 to 2014.
10. **Auditor** of the Ministry of Higher Education to follow up the progress of the educational process in private engineering institutes in academic year 2013/2014.
11. **B.Sc. Program coordinator**, Yanbu Industrial College, Royal Commission in Yanbu - from 2007 to 2009.
12. **Head of the General Technical subjects Section**, Vocational Training Center, Central Military Command, Dubai, from 1990 to 1996, participated in the establishment of the Center.

EXPERIENCE

• Academic Activities

1 Shoubra faculty of Engineering, Benha university as:

- Teaching assistant, May 1983- Mar. 1987.
- Ass. Lecturer, Mar.1987- Oct.1990.
- Ass. Prof., 1990 - 2003
- Associate Professor, 18 Nov. 2003- June 2013
- Full professor, June 2013- Now

Teaching the following subjects:

- Quality Control.
- Production management and Quality control

- Machine Design.
- Theory of Vibration
- Machine Construction.
- Theory of Machines.
- Engineering Drawing.
- Non-traditional machining.
- Engineering metrology.
- Computer Aided Manufacturing (CAM)
- Computer Numerical Control.
- Maintenance using vibration and computer applications.

2. Benha Higher Institute of Technology, Part time, 1997- 2006

Supervising B.Sc. Projects, and Teaching the following subjects

- Quality Control.
- Mechanics of machine.

3- Delta Academy for science – Al-Mansoura, Part time. 2002- 2005

Teaching the following subjects

- Production Management
- Operation research 1, and 2
- System programming
- Management Information System (MIS)
- Project Management

4- Misr University for science & Technology, Faculty of Engineering, Part time, 2nd term 2005, teaching the following subjects:

- Total Quality Management
- Reliability and availability

5. Head of general technical subjects and welding section, Vocational Training Center, Defense, Dubai, 1991:1996

- Supervise workshop layout and machines installation,
- preparing and supervise the courses of different technical seminars,

6. Yanbu Industrial college, Yanbu El-Senaia, K.S.A. (ABET, CEA, and ACBSP Accredited college), Sep. 2006- July 2013.

- Assistance professor, Teaching the following courses:
 - Mechanical Design II.
 - Introduction to manufacturing technology.
 - Introduction to drafting
 - Mechanical drafting
- Member of the committee for preparing the training program for 2 years SAFRA Co. students training.
- B.Sc. program Coordinator from Sep. 2007- Feb. 2009.
- Member of the ABET accreditation committee For Associate degree programs 2007/2009, and B.Sc. program 2008/2009.
- Head of Quality assurance and Accreditation Department. Feb. 2009- July 2013
Responsible for the following accreditation:

- **TAC of ABET, Inc.** for Engineering Technology Programs,
- **ACBSP** for Administration and Accounting Programs, and
- **CEA Commission of English Language Accreditation**

7. Colleges and Institutes Sector at Yanbu, Royal Commission for Jubail and Yanbu, KSA

- Head of Quality assurance and Accreditation (July 2011-July 2013)
- Leading The team for Effective participation in 4th National Quality Week for KSA, Nov. 2011

8- Expert in Project Management Unit, Ministry of Higher Education, Egypt, Sep. 2013- Sep. 2014, with the following duties:

- Supervise and follow up the labs international accreditation projects, and new programs.
- Supervise and follow up the projects of development of Universities' administrations systems (ISO 9001-2008).

9. Alsalam Higher Institute of Technology, (2014-2016), Teaching the following courses:

- Machine Design,
- Mechanical Drawing,
- Manufacturing Process and CNC machines,
- Statistics,
- Vibration,
- Theory of Machines and Robotics.

10. Sina University, Faculty of Engineering Science, (2016), Teaching the following courses:

- Vibration,
- Mechanical and Electrical Engineering.

• **Training Activities**

Preparing and teaching the following courses:

- 1. Maintenance using Fault analysis and diagnosis** (15 days course Theoretical and practical) for Engineers at Benha Higher Institute of Technology, Aug.1989.
- 2. Maintenance with On condition monitoring using vibration analysis** (5 days course) At Benha Higher Institute of Technology, for the followings:
 - Engineers, Jun 1989
 - Technicians, Jun. 1989
 - Engineers, Sep. 1989.

3-The following courses at Arab management associations, Cairo, and Alexandria 1996-2015:

Maintenance Management, Engineering metrology, Transportation Management, Quality Control, TQM, Welding Technology, Industrial environment, Technical report writing, Air

pollution, Construction project management, Advanced Production Management, Predictive Maintenance, Reverse Engineering and uses in spare parts production, Root cause analysis.

The above courses were repeated many times, 1996- now

Consultant for the society, Supervise all Technical Seminars, 1996- 2015

4. The following courses at Kuwait:

- Selection of engineering materials and applications, Oil Company Dec. 1997.
- Industrial Safety, May 1999.

5. The following courses at APROMAC, Cairo:

- Oiling and greasing, Maintenance, Cairo, 2000

6. The following courses at Development center, Cairo:

- Welding Codes, Sep. 2000.
- Corrosion control, Jan 2001.
- Welding Technology Sep. 2001.

7. The following courses at Sadat Academy, Cairo:

- Statistical Quality Control, June 2003
- Project Management, July 2003
- TQM and ISO 9000, Sep. 2003
- Inventory Control using Computer, Mar. 2004.
- Forecasting in feasibility study using Computer, Mar. 2004.

8. The following courses at Alwatania poultry co. – Alkaseem, Saudi Arabia

- Preventive maintenance, Apr. 2006
- Occupational safety, Apr. 2008

9- The following courses at Yanbu continuous education – Yanbu, Saudi Arabia

- Project management, Jan. 2008, Apr. 2008
- Total quality management, Jan. 2008, Apr. 2008

10- The following courses at San-Masr Company.

- Maintenance management 2014
- Measurement and sensor technology 2015

11- The following course at Enppi Training & Development Center, Alexandria:

- Reverse engineering in manufacturing spare parts, July 2016

• **Practical Activities**

1- Consultant for ISO 9001-2000 Qualification for the following Companies:

- Arabic union Co. for Shipment and discharge, Alexandria, 2001.
- Egyptian Co. for general storehouses, Alexandria, 2002.

2. Design and planning manager, Misr Trailer Co., 1983:1987 with the following activities:

- Planning and layout of the factory, Supervise all steel construction processes
- Design and supervise the production for the prototypes of the trailers, semi-trailers, tippers, low bed trailers.

3. Member of the Consultation group For Midequip Co. for hospital equipping. 1996-1997., as follows:

- Design and supervise the steel construction works, and pre-installation for medical

equipment for Sharm El-Sheikh hospital.

-Supervise pre-installation for medical equipment including all mechanical and Electrical works for the following cancer centers: Damanhour center, Domiat Center, El- Menia center, and El-Salam center

-Supervise renewal of the following hospitals: Suize Chest hospital, And Rashid hospital

4- **Consultant** for International office for engineering and trading, Electrolab Co., Ten TEC Co. Oct. 1999 – Oct. 2000.

5- **Consultant** for Arab Contractor (Shoubra Branch) 2000 – 2006.

With the following activities:

- Supervise the repair of different cranes
- Design for 3 Axle Tipping Trailer, flat bed trailer, and low bed trailer

Attendance for the following courses:

- 1- Attending the course “**Self-evaluation of educational programs: colleges and institutes of higher education**”, the National Authority for Quality Assurance of Education, Presidency of the Council of Ministers, May 27-29, 2021.
- 2- Successful completion of the course “**ISO9001:2015 Lead Implementer**”, 23-25 March 2021.
- 3- Successful completion of the course “**ISO45001:2018 Lead Implementer**”, 7-10 April 2021.
- 4- Participation as an Instructor for a lecture in the workshop “**The Role of the Teaching Staff in Evaluating the Performance of the Scientific Department**” College of Commerce and Economics, Sumer University, Iraq. 30/6/2020.
- 5- Successful completion of the course “**Continuous Quality Improvement**”, the Royal Commission in Saudi Arabia, Nov. 19-25, 2011.
- 6- Successful completion of the course “**Performance Management**”, Royal commission at Yanbu, KSA, 29 Jan. 1 Feb. 2011.
- 7- Successful completion of the course “**Competency Model Workshop**”. Royal commission at Yanbu, KSA, 19-22 Feb. 2011
- 8- Attending the course “**Class Room Management**”, Royal commission at Yanbu, KSA, 4-9 Feb. 2009.
- 9- Attending the course “**Modern teaching Methods& Techniques**”, Royal commission at Yanbu, KSA, 19-22 Feb. 2009.
- 10- Successfully attendance For “**ISO 9001-2000 Transition course**”, By AGA Ltd IRCA, Cairo Aug.2001.
- 11- The course “**Computer Numerical Control (CNC) machines**”, (6 days course Theoretical and practical) By EMCO CO. (Austria), Dubai. Jan. 1989.
- 12- The course “**Vibration and Noise Measurement Analysis**”, By Bruel & Kjaer Co. ,

Demark, June 1989.

- 13- The course “**Teaching Techniques in the University**”, Benha University, Oct. 1990.
- 14- The course “**The use of technology in teaching**” (3 weeks course), Faculty of Engineering, Benha University, Mar 2006
- 15- The course “**Development of staff member’s capabilities**” (3 courses), Benha University, July- Aug., 2006.
- 16- The course “**Development of staff member’s capabilities**” (1 course), Benha University, Aug, 2007.

PUBUSHED BOOKS:

1. An Introduction to Workshop Technology, 1988.
2. Engineering Drawing (part I), 1990.
3. Engineering Drawing (part II), 1991.
4. Theory of Vibration, 2001.
5. Mechanical Engineering Design, 1999.
6. Operation Research (1) 2002.
7. Operation Research (2) 2003.
8. Production Management 2003.
9. Production Management, 2004
10. Operating system fundamentals, 2005.
11. Office software packages, 2006.
12. System Programming, 2006
13. CNC machines, 2015
14. Theory of machines and robotics, 2015
15. Statistics and Probability, 2016

PUBUCATIONS

1. M. S. Hamed, Y. A. Mashad, **A. A. Ibrahim** “*Correlation Between vibration Measurement and Surface Quality In Grinding Operation*”, Eng. Res. Journal of EL-Mataria faculty of Eng., Helwan university, vol.11, PP (144-158), Mar.1989, Cairo, Egypt.
2. **A. A. Ibrahim** “*Studying The Effect of underlying Processes The Finishing Process*”, Eng. Res. Journal of EL-Mataria faculty of Eng., Helwan university, vol.3, PP (70 - 77), Mar.1995, Cairo, Egypt
3. **A. A. Ibrahim**, S. A. Elkady, T. M. Tawfik “*Theory of Surface Production in Electrochemical Grinding*”, Eng. Res. Journal of EL-Mataria faculty of Eng., Helwan university, vol.3, PP (78-85), Mar.1995, Cairo, Egypt
4. **A. A. Ibrahim** “*The Effect of Specimen Preparation on The Machinability*” , 22nd international conference on computers and industrial engineering , American university, PP(248-251), Dec 1997, Cairo, Egypt.
5. **A. A. Ibrahim** “*A Study For Roundness Error In The Cylindrical Plunge Grinding*” 22nd international conference on computers and industrial engineering , American university,

- PP(503-506), Dec 1997, Cairo, Egypt.
6. **A. A. Ibrahim** “*The Wheel-Work Interference in the cylindrical plunge grinding*” 8th INT. AMME conference , PP(321-328) 12-14 May. 1998,. Cairo, Egypt.
 7. **A. A. Ibrahim** “*The Roundness Error In Cylindrical Plunge Grinding (Causes And Cures)*” 8th INT. AMME conference , PP(329-337) 12-14 May. 1998, Cairo, Egypt.
 8. **A. A. Ibrahim**, A. M. A. Soliman, and H. A. Housin “ *Influence of Workpiece Support on the Generated Surface in Turning* “, Proc. Of Conference Intelligent Systems in Design and Manufacturing III, Part of SPIE’S Intelligent Systems and Smart Manufacturing, Paper No. 4192-62,Boston, Nov.-2000, USA.
 9. Saber M. Abd-Rabbo, and **A. A. Ibrahim** “ *Theoretical and Experimental Investigation Into An Axial vibration During Turning*” Bulletin of the Faculty of Engineering, Minia University, Vol 20 No. 2, PP(23-31), Jan 2002, Egypt.
 10. **A. A. Ibrahim**, and M. H. EL-AXIR “ *An Investigation into oblique Turning for Mild Steel with Two Different Workpiece Support using RSM*” The second Minia International Conference for Advanced Trends In Engineering, PP(1134-1144), 7-9 April 2001, Egypt.
 11. M. Abdel Mohsen, **A. A. Ibrahim**, F. S. Ahmed, and M. M. Okasha " *Machined Surface Characteristics Produced By Electrochemical Grinding*" Sci. Bull. Fac. Eng. Ain Shams Univ. Vol.37, No.4, December 2002, Egypt.
 12. M. H. EL-AXIR and **A. A. IBRAHIM** " *Some Surface Characteristics Due To moving Rest Ball Burnishing*"3rd Assiut International Conference on Mechanical engineering Advanced Technology for Industrial Production (MEATIP3), PP(382-391), 24-26 Dec. 2002, Assiut, Egypt.
 13. M. H. EL-AXIR and **A. A. IBRAHIM** " *Some Surface Characteristics Due To Center Rest Ball Burnishing*" Al-Mansoura engineering Journal, June 2003, Egypt.
 14. **A. A. Ibrahim**, Saber M. Abd Rabbo, and Yehia El- Mashad " *Fuzzy Knowledge Base Controller to Comensate The Roundness Error in The Cylindrical Plunge Grinding*" Al-Mansoura engineering Journal, June 2003, Egypt.
 15. El-Axir, M. H., and **Ibrahim, A. A.**, “*Some surface characteristics due to center rest ball burnishing*”, J. Materials Processing Technology. 167(1), pp(47-53.) , 2005.
 16. **A. A. Ibrahim** "An investigation into ball burnishing process of carbon steel on a lathe "AL-AZHAR ENGINEERING TENTH INTERNATIONAL CONFERENCE, December 24-26, 2008, Egypt.
 17. **A.A. Ibrahim**, S.M. Abd Rabbo, “*ROUNDNESS ERROR COMPENSATION IN TURNING USING FUZZY LOGIC*”, Engineering Research Journal of EL-Mataria faculty of Eng., Helwan university, VOL. 102, PP (M 22-M35), December 2005, Cairo, Egypt.
 18. **A.A. Ibrahim**, S.M. Abd Rabbo,, M.H. El-Axir, A.A. Ebied, “*Center rest balls burnishing parameters adaptation of steel components using fuzzy logic*”, Production Engineering & Design for Development, PEDD7, February 7-9, 2006, Cairo, Egypt

19. **A.A. Ibrahim, S.M. Abd Rabbo,, M.H. El-Axir, A.A. Ebied**, “*Center rest balls burnishing parameters adaptation of steel components using fuzzy logic*”, journal of materials processing technology , 2 0 9, pp. 2428–2435, 2 0 0 9 .
20. **A.A. Ibrahim**, “*IMPROVING ROUNDNESS ERROR IN THE CYLINDRICAL PLUNGE GRINDING USING AI TECHNIQUE*” Engineering Research Journal of EL-Mataria faculty of Eng., Helwan university, VOL. 117, PP (M 124-M142), June2008, Cairo, Egypt.
21. **A. A . Ibrahim, F. S. Ahmed, K. ELshazly, S. Samir**, “*EFFECT OF CUTTING CONDITION IN TURNING ON FATIGUE BEHAVIOR OF 0.12% CARBON STEEL*”, Fourth Assiut University Int. Conf. on Mech. Eng. Advanced Tech. For Indus. Prod., (MEATIP4), pp(578-589), December 12-14 (2006).
22. **A.A. Ibrahim**, “*Fatigue Life Enhancement of Carbon Steel By Ball Burnishing Process*”, Mansoura Engineering Journal (MEJ), Vol..33 ,No. 2, pp(M.1-M.9), June 2008, Egypt
23. **Z. M. Yehia, A. A. Ibrahim, I. M. Ibrahim, R. A. Mahmoud** , “*Effect of Niobium Addition on Stamping Tool Steel Properties*”, Engineering Research Journal, Faculty of Engineering Shebin El-kom, Menoufia University, Vol. 32, No. 1 January 2009, Egypt.
24. **A.A. Ibrahim** , **S. M. Abd-elrahman, M. Z. Zahran, and H. H. El-Mongy**, “*AN INVESTIGATION FOR MACHINERY FAULT DIAGNOSIS USING ADAPTIVE WAVELET ANALYSIS*”, Sixth Jordanian International Conference, Paper No. 5, CD, October 22-24/2007, Paper No. 5, Amman, Jordan.
25. **A.A. IBRAHIM** , **S. M. Abd-elrahman, M. Z. Zahran, and H. H. El-MONGY**, “*An experimental investigation for gear fault diagnosis using adaptive wavelet analysis of vibration signals*”, Bulletin of Faculty of Engineering, Faculty of Engineering, Menia University, Vol. 26, No. 2, July 2007, Egypt.
26. **YASIR A. HADI, SAJI VARGHESE and A. A. IBRAHIM**” *EFFECTS OF MACHINING PARAMETERS IN TURNING ON ROUNDNESS ERROR OF MACHINED COMPONENTS*”, International Journal of Materials Engineering and Technology Volume 2, Issue 1, pp. 55-68, 2009.
27. **A. A. Ibrahim, S. M. Abdrabbo, H. Gheith , M. Abd El-Salam, and M. El-Samanty**, “*Online Tool Wear Monitoring In Turning Using Vibration Analysis And Artificial Neural Network*”, Ain Shams Journal of Mechanical Engineering (ASJME),Vol. 2, pp.201-212, October, 2009.
28. **S. M. ABDRABBO, A. A. IBRAHIM**, “*SURFACE TEXTURE OPTIMIZATION IN TURNING PROCESS BASED ON RSM AND GENETIC ALGORITHMS* “, Minia Journal of Engineering and Technology, (MJET), Vol. 29, No. 1, pp. 86- 100, January 2010.
29. **S. M. Abdel-Rahman, A.A. Ibrahim** , and **H. H. El-Mongy** “*Rolling-Element Bearing Fault Diagnosis using Adaptive Wavelet Analysis of Vibration Signals*”, Engineering Research Journal, Faculty Engineering, Mataria, Helwan University, Vol.125, pp. M25-M41, March 2010.
30. **A. A. IBRAHIM** , “*An Investigation for Surface Integrity of Al2O3/A356 Composites Using Roller Burnishing Process on a Milling Machine*”, Applied Mechanics and Materials journal, Vol. 330 (2013), pp 37-44.

Also published and presented in: 4th International Conference on Mechanical, Industrial, and Manufacturing Technologies (MIMT 2013), Bali Island, Indonesia, March 16-17, 2013.

- 31- **A.A. Ibrahim**, Tamer Khalil, Tarik Tawfeek, “*Study the influence of a new ball burnishing technique on the surface roughness of AISI 1018 low carbon steel*” International Journal of Engineering & Technology, 4 (1) (2015) 227-232.
- 32- A Hemaïd, Tarik Tawfeek , **A. A. Ibrahim** “ *Experimental Investigation on Surface Finish during Turning of Aluminum under Dry and Minimum Quantity Lubrication Machining Conditions*”, American Journal of Materials Engineering and Technology, Vol. 4, No. 1, 1-5, 2016 .
- 33- M. M. Salem, **A. A. Ibrahim**, S.S. Mohamed, and Sayed A. Abdallah “**CHARACTERISTICS OF THE SURFACE PRODUCED BY ELECTRIC DISCHARGE MACHINE (EDM) PROCESS**”, Minia Journal of Engineering and Technology, (MJET), Jan. 2017.
- 34- M. Elsamanty, A. Mostafa, **A. A. Ibrahim** “**DYNAMIC CHARACTERISTICS STUDY OF RE-ENTRANT HONEYCOMB AUXETIC STRUCTURE FOR AL6082**” JOURNAL OF THE EGYPTIAN SOCIETY OF TRIBOLOGY VOLUME 17, No. 3, pp. 37 - 47 ISSN 2090 – 5882, July 2020.
- 35- M. Elsamanty, W.S. Salman, **A. A. Ibrahim**” *Rotary Machines Fault Diagnosis based on Principal Component Analysis*” ERJ_Volume 171_Issue 0_Pages 138-150, 2021.
- 36- Mahmoud Mohammed Elsamanty, Wael Saady Salman , **AbdElkader AbdElkareem Ibrahim**, “ *Fault Diagnosis of Rotary Machines based on Vibration Signature and Machine Learning Algorithm*”, ENGINEERING RESEARCH JOURNAL (ERJ), Vol. 1, No. 50, pp.41-47, October 2021, Journal Homepage: erj.bu.edu.eg
- 37- M. M. Salem, **A. A. Ibrahim**, S.S. Mohamed “ *Optimization of surface grinding parameters used in improved surface Integrity*”, International Research Journal of Innovations in Engineering and Technology-IRJIET, Volume 6, Issue 5, pp 124-130, May 2022. Manuscript ID IRJIET605015.
- 38- M. M. Salem, **A. A. Ibrahim**, S.S. Mohamed “ *An experimental investigation for the effect of surface grinding parameters on the produced surface roughness*”, Benha Journal of Applied Sciences (BJAS)- Vol. (7) Issue (4) (2022), (143-149), print: ISSN 2356–9751.

Reviewer for the followings

- 1-Int. Journal of Advanced Manufacturing Technology, Springer (2003- Now).
- 2- King Abdelaziz City for Science and Technology (KACST) 2011- now.
- 3-119th ASEE Annual Conference & Exposition!- Spurring Big Ideas in Education- June 10 - 13, 2012- San Antonio, Texas (Reviewed 4 papers.).
- 4- Ain Shams Engineering Journal (ASEJ).

- 5- مجلة العلوم الهندسية – كلية الهندسة – جامعة أسيوط
- 6- Egypt- Japan of Science and Technology (E-JUST). (examiner for Five Ph.D Thesis)
- 7-International Journal of Mathematical, Engineering and Management Sciences(IJMEMS)
- 8- اللجنة العلمية هندسة التصنيع والتصميم الميكانيكي وهندسة النسيجيات والهندسة البحرية-
- 9- Engineering research Journal – Faculty of Engineering –Matteria.
- 10- Structural Health Monitoring Journal.
- 11- Production & Manufacturing Research Journal
- 12- مجلة المنيا للهندسة والتكنولوجيا لكلية الهندسة جامعة المنيا
- 13- Editorial Board Member in IRJIET journal

Supervisor The following thesis:

1. M.Sc Thesis with the title “ Performance of Electrochemical grinding” Shoubra Faculty of engineering, Zagazig University 1990-1993
2. M.Sc. Thesis “Mathematical modeling of Electrochemical grinding processes” Shoubra Faculty of engineering, Zagazig University 1997-2002.
3. M.Sc. Thesis “The usage of system analysis approach in planning the environmental management system”, Institute of environmental studies, Ain Shams University. 1999-2003.
4. M.Sc. Thesis “Effect of inoculation on the properties of tool steel” Shoubra Faculty of engineering, Zagazig University 1999-2004.
5. M.Sc. Thesis “Using Wavelet analysis measurements for fault diagnosis ” Shoubra Faculty of engineering, Zagazig University 2001-2005
6. M.Sc. Thesis “Fatigue life of machined components ” Shoubra Faculty of engineering, Zagazig University 2003-2005
7. M.Sc. Thesis “Online Tool Wear Monitoring in Turning using Vibration Analysis” Shoubra Faculty of engineering, Zagazig University 2004-2008.
8. M.Sc. Thesis “An investigation of surface characteristics of surface produced By EDM process”, Shoubra Faculty of engineering, Benha University, 2014- 2016.
9. M.Sc. Thesis “Theoretical and experimental investigation on the dynamic characteristics of auxetic material, Shoubra Faculty of engineering, Benha University, 2016- 2020.
10. Ph.D. Thesis “On line condition monitoring in rotating machines”, Shoubra Faculty of engineering, Benha University, 2017- 2022.
11. Ph.D. Thesis “Optimization of surface grinding parameters for improved surface Integrity”, Benha University, 2017- Now.
12. Ph.D. Thesis “A Study for Surface Characteristics Produced by Ball Burnishing Process.” 2018 – Now.
13. M.Sc. Thesis “Artificial Intelligence Control and Navigation of Autonomous Mobile Robot”, Shoubra Faculty of engineering, Benha University, 2022- Now.
14. M.Sc. Thesis “Dynamic characteristics Investigation of Changing the Geometrical Parameters of Auxetic Structure”, Benha University, 2022- Now.

