FACULTY FULL NAME Dr. Abir Said Abdel-Naby

position Professor

Personal Data

Nationality | Egyptian Date of Birth | 12-2- 1964 Department | Chemistry Official Email | aabdelnaby@iau.edu.sa Office Phone No. 37237

Language Proficiency

| Language | Read | Write | Speak |
|------------------|--------|--------|--------|
| Arabic | Fluent | Fluent | Fluent |
| English | Fluent | Fluent | Fluent |
| Others (French) | Fluent | Fluent | Fluent |

Academic Qualifications (Beginning with the most recent)

| Date | Academic Degree | Place of Issue | Address |
|------|-----------------|--------------------------|--------------|
| 1996 | Ph.D | Faculty of Science Cairo | Cairo -Egypt |
| | | University | |
| | | And College of William | |
| | | and Mary | |
| | | Virginia USA. | |
| 1990 | MSc. | Faculty of science | Cairo -Egypt |
| | | Cairo University | |
| 1986 | BSc. | Faculty of science | Cairo -Egypt |
| | | Cairo University | |

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

| PhD | Studies on the thermal stabilization of PVC by chemical modification | |
|------------|--|--|
| Master | Studies on the use of cyanoguanidine and its complexes as thermal stabilizers of PVC | |
| Fellowship | hip One year Postdoctoral fellowship supported by UNESCO in Tokyo | |
| | Institute of technology. Japan (10/1999-9/2000). | |
| | | |



Professional Record: (Beginning with the most recent)

| Job Rank | | Place and Address of W | ork | Date |
|---|-------------------------|---|-----|---------------|
| Demonstrator | Faculty of Science | Cairo University | | 1986 |
| Assistant Lecturer of polymer Chemistry | Faculty of Science , | Cairo University | | 1990 |
| Lecturer of Organic (polymer) Chemistry | Faculty of Science , | Cairo University | | 1996 |
| Associate professor of Organic (Polymer) Chemistry | Faculty of Science , | Cairo University | | 2003 |
| Associate professor of Organic (Polymer) Chemistry | College of Science | Imam Abdulrahman Bin Faizal University | | 2005 |
| Professor of Organic (Polymer) Chemistry | College of science | Imam Abdulrahman Bin Faizal University | | 2016 till now |

Administrative Positions Held: (Beginning with the most recent)

| Administrative Position | Office | Date |
|---|------------------|---------------|
| Head of the research units | College of girls | 2011-2012 |
| Head of the water treatment unit at BASRC | BASRC G24 | 2020 till now |
| | | |

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

| 1. # | Name of Investigator(s) | Research Title | Publisher and Date of Publication |
|------|--|---|--|
| 2. | <u>Abir. S. Abdel-Naby & Azza A. Al-</u> <u>Ghamdi</u> | Effect of crystallinity on the thermal and photostabilization of PVC/poly (AN-DAA) blend | International Journal of Polymer Analysis and Characterization Vol.25 (2020) 8-17 |
| 3. | <u>Asma M. ELsharif , Azza A. Al-</u> Ghamdi and Abir S. Abdel-Naby | Modification of poly (vinyl chloride) by N-phenyl itaconimides for the improvement of its thermal stability | Journal of chemistry, vol. 2019 (2019) 1-8 |
| 4. | <u>Azza A. Al-Ghamdi, Salha N. Al-</u> <u>Harthi, Asma M. EL-Sharif,</u> <u>Abir S. Abdel-Naby</u> | Cyclocopolymerization of N,N-Diallylammonium and | Arabian Journal for Science and Engineering Vol. |



| | | N,N-Diallylguanidinium Acetate with Acrylonitrile Characterization, Thermal and Morphological Properties | 44, <u>Issue 7(</u> 2019) 6303–6311 |
|-----|---|--|---|
| 5. | <u>Azza Al-Ghamdi & Abir Abdel-</u> <u>Naby</u> | Biodegradable cellulose- based materials for the use in food packaging | International journal of chemical and materials Engineering vol. 12, No 4, (2018) 195 |
| 6. | <u>Azza Al-Ghamdi & Abir Abdel-</u> <u>Naby</u> | Graft copolymerization of cellulose acetate with nitro- n-amino phenyl maleimides | International journal of chemical and materials Engineering vol: 12, No 8, (2018) 416 |
| 7. | <u>Mona Al-Dhafeer & Abir Abdel-</u> <u>Naby</u> | Use of ultrasonic Technique for the Adjustment of Biodegradable Cellulose acetate Blends for fibre applications | Asian journal of Chemistry (2017) 29 |
| 8. | <u>Abir S. Abdel-Naby</u> & Azza A. Al- Ghamdi | Chemical modification of cellulose acetate by Diallylamine | Int. J. Curr. Microbiol. App. Sci (2014) 3 (6) 10-24. |
| 9. | <u>Abir S. Abdel-Naby</u> & Azza A. Al- Ghamdi | Chemical modification of cellulose acetate by N- (phenyl amino) maleimides: Characterization and properties | International journal of biological macromolecules Vol. 68 (2014) 21-27 ELSEVIER |
| 10. | <u>Abir S. Abdel-Naby</u> & Azza A. Al- Ghamdi | • Poly(vinyl chloride) blend with biodegradable cellulose acetate in presence of N-(phenyl amino) maleimides | International journal of biological macromolecules Vol. 70 (2014)124-130 ELSEVIER |
| 11. | <u>Abir S. Abdel-Naby</u> and Salha N. Al-Harthi | Dyeability and mechanical properties of acrylonitrile- diallylamine salts copolymers | American Journal of Applied Sciences Vol. 10 (5) (2013) 525 Science Publication |
| 12. | Abir S. Abdel-Naby* and Sama A13 Aboubshait | Cellulose acetate blends with Acrylonitrile/N-phenyl maleimide copolymers Morphological and Thermal Properties | J. Thermal Anal Calorimetry Vol. 114, (2013) 1279 Springer |
| 14. | Abir S. Abdel-Naby | Ultrasound assisted Copolymerization of Acrylonitrile with N- aminophenyl maleimides and N- amino phenyl 2, 3 Dimethyl maleimides | Ultrasonics Sonochemistry Vol. 19, (2012) 1180 ELSEVIER |
| 15. | Abir S. Abdel-Naby | Improvement of the thermal, Photo and Mechanical Properties of | American J. Appl. Sci. Vol. 8(7), (2011) 675. Science publication |



| | | Poly (vinyl chloride) in presence of Poly (Glycidyl methacrylate) | |
|-----|---|---|---|
| 16. | <u>Abir S. Abdel-Naby</u> | Copolymerization of Acrylonitrile with N-(Substituted phenyl) itaconimide | J. Appl. Polym Sci. Vol. 121 (2011) 169. John Wiley |
| 17. | <u>Abir S. Abdel-Naby</u> , Refaa F. Al-Ghamdi, Azza A. Al-Ghamdi | Effect of Cyanoguanidine- Metal and Urea-Metal Complexes on the Thermal Degradation of Poly (vinyl chloride) | J. Vinyl & Addit. Technol. Vol.16 (2010) 15. John Wiley |
| 18. | Abir Abdel-Naby and Abeer O. Al Dossary | Stabilization of poly (vinyl chloride) against photo- degradation using dienophilic compounds | J. Appl. Polym Sci. vol. 114 (2009) 3218 John Wiley |
| 19. | <u>Abir S. Abdel-Naby</u> and Abeer O. Al Dossary | Use of N-aryl amino maleimide to improve the thermal properties of poly (vinyl chloride) through chemical modification and graft copolymerization. | J. vinyl Addit. Technol. Vol. 14 (2008) 167. John Wiley |
| 20. | Abir S. Abdel-Naby and Abeer O. Al Dossary | Inhibition of the Thermal Degradation of Rigid Poly (vinyl chloride) by Dienophilic Compounds | J. vinyl Addit. Technol. Vol.14 (2008) 175. John Wiley |
| 21. | Magdy W. Sabaa, Emad H. Oraby, <u>Abir S.</u> <u>Abdel Naby</u> and Riham R. Mohamed | . N-phenyl-3-substituted-5- pyrazolone derivatives for rigid poly(vinyl chloride) against photo-degradation | J. Appl. Polym Sci. vol. 101 (2006)1543 John Wiley |
| 22. | Magdy W. Sabaa, Emad H. Oraby, <u>Abir S.</u> <u>Abdel Naby</u> and Riham R. Mohamed | Organic thermal stabilizers for rigid poly (vinyl chloride) Part XII: N- phenyl-3-substituted-5- pyrazolone derivatives. | Polym. Degrad. Stab. Vol. 91 (2006) 911. ELSEVIER |
| 23. | Magdy W. Sabaa, Emad H. Oraby, <u>Abir S.</u> <u>Abdel Naby</u> and Riham R. Mohamed | Organic thermal stabilizers or rigid poly(vinyl chloride). Part XI: Anthraquinone derivatives. | Polym. Degrad. Stab. Vol. 91 (2006) 242. ELSEVIER |
| 24. | Magdy W. Sabaa, Emad H. Oraby, <u>Abir S.</u> <u>Abdel Naby</u> and Riham R. Mohamed | Anthraquinone derivatives as organic stabilizers for rigid poly (vinyl chloride) against photo-degradation | European polymer Journal Vol. 41 (2005)2130 ELSEVIER |
| 25. | <u>Abir S. Abdel-Naby</u> and Manal M. El- Hefnawy | Improvement of the thermal and mechanical properties of poly(vinyl chloride) in presence of poly(ethylene succinate). | Polymer Testing vol. 22 (2003) 25 ELSEVIER |



| 26. 27. | Abir S. Abdel-Naby and Samir M. Nouh Abir S. Abdel-Naby Abir S. Abdel-Naby | Stabilization of poly (vinyl chloride) against laser radiation with ethyl-N- phenyl maleimide-4- carboxylate . Structure and optical Investigation of the effect of | Polym.Degrad.Stab. vol.76 (2002) 419 ELSEVIER Rad.effect and defects in solids vol. 157 |
|------------|---|--|---|
| | | laser radiation in stabilized poly (vinyl chloride) | (2002) 265 John Wiley |
| 28. | <u>Abir S. Abdel-Naby</u> | Gamma-radiation-induced graft copolymerization of N- [4-(N-substituted amino carbonyl) phenyl] maleimide onto poly(vinyl chloride) films | J. vinyl Addit. Technol. Vol. 7 (2001) 244 John Wiley |
| 29. | Abir S. Abdel-Naby and Samir M. Nouh | Micro sphere synthesis by distribution copolymerization using polyisoprene macromonomers in non- aqueous media | Journal of material science letters vol. 20 (2001) 1675 John Wiley |
| 30. | <u>Abir S. Abdel-Naby</u> and Salah M. Mahrous | Space charge limited currents and trap distribution in PVC stabilized with lead stearate. | Inter J polymeric matter Vol.46 (2000) 571 |
| 31. | <u>Abir S. Abdel-Naby</u> and Samir M. Nouh American J. of .i solid Vol. 22 (2000) 331-340 | Temperature, frequency and concentration dependence of the dielectric properties of poly (vinyl chloride) in the presence of 5- pyrimidine carbonitrile (1,2,3,4- Tetrahydro-4-6- phenyl-2-thioxo | American J. of solid Vol. 22 (2000) 331-340 |
| 32. | <u>Abir S. Abdel-Naby</u> | Stabilization of rigid poly(vinyl chloride) by 5,6,7,8-Tetrahydro-2- mercapto-4-(p- methoxyphenyl)-3- quinolinecarbonitrile | J.Vinyl Addit.Technol. vol.5 (1999) 159-164. John Wiley |
| 33. | Magdy W. Sabaa, <u>Abir S. Abdel-Nabv</u> | Cyanoethanyl-4-acryloyl -1 thiosemicarbazide and its complexes as thermal stabilizers for rigid poly(vinyl chloride) | Polym.Degrad.Stab vol. 64, 185 ELSEVIER |
| 34. | Abir S. Abdel-Naby and Ayman S. Youssef | Inhibition of the degradation of poly (vinyl chloride) by its modification with 5- pyrimidine carbonitrile (1,2,3,4-Tetrahydro-4-6- phenyl-2-thioxo. | Polymer inter.vol 46 (1998) 33 ELSEVIER |
| 35. | Ahmady A.Yassin, Magdy W. Sabaa, <u>Abir</u> <u>S. Abdel-Naby</u> . | Cyanoguanidine and its complexes as thermal stabilizers for rigid poly (vinyl coloride) | Polym.Degrad.Stab ELSEVIER vol. 31 (1991) 189-202 |



Refereed Scientific Research Papers Accepted for Publication

| # | Name of Investigator(s) | Research Title | Journal | Acceptance Date |
|---|-------------------------|----------------|---------|-----------------|
| | | | | |
| | | | | |
| | | | | |

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

| # | Name of Investigator(s) | Research Title | Conference and Publication Date |
|---|-------------------------|----------------|---------------------------------|
| | | | |
| | | | |

Completed Research Projects

| # | Name of Investigator(s) (Supported by) | Research Title | Report Date |
|---|--|---|-------------|
| 1 | Abir Abdel-Naby Sammar Abou-beshait Haya Abou Beshait Suppored by University of Dammam | Studies of the Blend Properties of Acrylonitile Copolymers with Cellulose Acetate | 2012 |
| 2 | Abir Abdel-Naby Suppored by University of Dammam | Stabilization of poly(vinyl chloride) against photo and thermal degradation | 2013 |
| 3 | Mona Al-Dhafeer Abir Abdel-Naby Supported by University of Dammam | Use of ultrasonic Technique for the Adjustment of Biodegradable Cellulose acetate Blends for fibre applications | 2016 |
| 4 | Azza Al-Ghamdy Abir Abdel-Naby Supported by University of Dammam | Improvement of thermal properties of PVC through chemical blend using Microwave and ultrasonic techniques. | 2016 |
| 5 | Abir Abdel-Naby et.al. | Fine chemistry | 2019 |
| 6 | Abir Abdel-naby et.al. | Water treatment (institutional fund) | IF-2020 |

Current Research

| # | Research Title | Name of Investigator(s) |
|---|----------------|-------------------------|
| | | |
| | | |



Contribution to Scientific Conferences and Symposia

| # | Conference Title | Place and Date of the Conference | Extent of Contribution |
|---|---|----------------------------------|------------------------|
| 1 | 20 th international conference on synthetic polymer chemistry and chemical Engineering. | London, UK (April 2017). | 3 days |
| 2 | Environment and development in gulf region | University of Dammam | 3 days |
| 3 | The 4 th Saudi international nanotechnology conference (SINC 2016) | King Fahd university | 2 days |
| 4 | ACS Fall meeting (Chicago) 2001. | Chicago USA | One week |

Membership of Scientific and Professional Societies and Organizations

| • | | |
|--|--------------------------------|-------------------|
| Association name | Affiliation of the association | Association place |
| 1. The American Chemical Society | USA | Member |
| The Syndicate for Scientific professions. | Egypt | Member |
| The Egyptian Society of Polymer Science and Technology, | Cairo, Egypt | Member |
| The Arab Society of Material Science, | Alexandria, Egypt | Member |
| Saudi chemical society | Dammam, Saudi Arabia | Member |

Teaching Activities

Undergraduate

| # | Course/Rotation Title | No./Code | Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics) |
|---|-----------------------------|-----------|---|
| | Polymer Chemistry | CHEM 458N | 15 lec |
| | Organometallic chemistry | CHEM 475N | 15 lec |



| Natural Products | CHEM 457N | 15 lec |
|-------------------|-----------|--------|
| General Chemistry | CHEM 221 | 15 lab |

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

| 1 | Course Description |
|----|--|
| | Polymer |
| | The course aims to give the student the theoretical bases of macromolecular compounds. |
| | Also it gives a direct scope on synthesis of polymers and reactions including several techniques depending on the method of polymerization. Various reaction mechanisms of polymerization should be covered e.g. free radical, ionic, coordination and stepwise mechanisms. |
| | The course also aims to give students the experience to use polymers in the manufacture of fibers, rubber and plastics. |
| 2 | Course Description |
| | Organometallic Chemistry The course aims to give the student the theoretical bases performing the Ionic character of organometallic compounds . Also it gives a direct scope on organometallic synthesis and reactions including several techniques depending on the nature of the metal. Various organometallic reactions should be covered e.g. insersion and deinsersion, self condensation oxidative addition and reductive elimination reactions, Grignard reactions and photochemical reactions, use of organometallic in polymerization reactions and formation of isotactic polymers. The course aims also to give students the experience to use organometallic compounds in the synthesis of some medical drugs. |
| 3. | Natural products |
| | The course aims to give the student the theoretical bases concerning |



- Classes of natural products.
- Structure determination of organic compounds and synthesis of each natural product to confirm the structure determination.
- Also it gives a direct scope on various types of extraction, distillation and purification techniques.

Postgraduate

| # | Course/Rotation Title | No./Code | Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics) |
|---|----------------------------------|----------|---|
| | | | |
| | Advanced Organic Spectroscopy | CHEM 521 | 15 lec |
| | Advanced Polymer Chemistry | CHEM 523 | 15 lec |
| | Physical Organic (1) | Chem 514 | 15 lec |
| | Physical Organic (2) | Chem 519 | 15 lec |
| | Natural Products | Chem 515 | 15 lec |

Brief Description of Postgraduate Courses Taught: (Course Title - Code: Description)

| 1 | Advanced Spectroscopy |
|---|--|
| | Electromagnetic radiation: Wave and particle properties – interaction between wave and matter - types of electromagnetic radiation. UV-Vis spectroscopy: Quantitative analysis – Lambert-Beer law - calculating \max of various chromophores – fluorescence and phosphorescence – CD and ORD curves and stereochemistry determination – ESR spectra. IR spectroscopy: Theory – Sample preparation – Instrumentation – FT technology – molecular vibrations – IR active vibrations – frequency calculation - interpreting spectra. NMR spectroscopy: 1H NMR – chemical shift – coupling constant - first and second order splitting - chemical shift equivalence (homotopic, enantiotopic and diastereotopic protons) – Shift reagents - Magnetic equivalence - Karplus equation - Selective excitation methods – Nuclear overhauser effect - Chemical exchange. Mass spectroscopy: Determination of molecular formula and molecular weight – fragmentations and rearrangements – GC-MS and LC- |
| 2 | Advanced Polymer Chemistry |
| 2 | Introduction of polymer chemistry and their importance and applications in our daily life. General properties of polymers and macromolecules. Classification of polymers according to Origin, chemical classification, according to nature of preparation , to shape of polymeric chain, to physico-mechanical properties. Different reaction mechanisms of polymerization reaction. Addition polymerization, free radical ,cationic and anionic. Condensation polymerization reaction mechanism. Comparison between condensation and addition polymerization. Competitive reactions. Chain-transfer to solvent, monomer, polymer, initiator. Factors affecting the rate and average molecular weight of addition polymerization. Copolymerization. Effect of temperature on polymers, resins. Coordination, polymerization. |



| | Practical methods of polymer preparation. | | | |
|---|---|--|--|--|
| | Disctic, fibre and rubber technologies | | | |
| | Taste, fore and fubber technologies. | | | |
| 3 | Physical Organic(1) | | | |
| | | | | |
| | | | | |
| | | | | |
| | Intermolecular Radical Additions to Alkynes: Cascade-Type Radical Cyclizations Radical Cation Fragmentation Reactions in Organic | | | |
| | | | | |
| | Synthesis Selectivity in Dedical Cation Cycloadditions. The Stability of Carbon Contared Dedicals Intermediates: Carbonium ions | | | |
| | Synthesis Selectivity in Kaucai Cation Cycloadditions. The stability of Carbon-Centered Kaucais intermediates. Carbonium jois, | | | |
| | | | | |
| | Carbanions, Free radical. Methods to Identify them. Free energy relationship. Electrophilic and nucleophilic attack. Substitution | | | |
| | | | | |
| | reactions, Elimination reactions, Rearangement. Free radical. | | | |
| | | | | |
| | | | | |
| | | | | |
| | Physical Organia Chemistry (2) | | | |
| 4 | Physical Organic Chemistry (2) | | | |
| | | | | |
| | Positive carbonium ion: Stability of ionic carbocations, order of common and noncommon carbocations. Negative carbanion: Negative | | | |
| | | | | |
| | enol ion, formation, their reactions with Electrophiles, Condensation reaction, stereo rearrangements of enols. Micheal addition, | | | |
| | | | | |
| | Robinson addition Reactions of enols formed from halocarbonyl derivatives, acetaldehyde, lithium and magnesium reagents, Sulfur ion | | | |
| | | | | |
| | stabilized by the influence of the neighbor carbon atom, organo conner reagents, organo iron reagents | | | |
| | successed of the initialized of the non-biood endoor along of game copport reagonal, organio non reagonal. | | | |
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| 5 | | | | |
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Course Coordination

| # | Course Title and Code | Coordination | Co-coordination | Undergrad. | Postgrad. | From | to |
|---|--|--------------|-----------------|--------------|--------------|------|------|
| | Polymer Chemistry Chem 458 | | | \checkmark | | 2012 | 2016 |
| | Polymer Chemistry Chem 458 | | \checkmark | \checkmark | | 2017 | |
| | Organometallic chemistry Chem 475 | | | \checkmark | | 2012 | 2016 |
| | Organometallic chemistry Chem 475 | | | | | 2015 | |
| | Research project Chem 474 | | | \checkmark | | 2012 | 2017 |
| | Physical Organic 1 Chem 514 | \checkmark | | | \checkmark | 2012 | 2016 |
| | Physical Organic 2 Chem 519 | \checkmark | | | \checkmark | 2012 | 2016 |
| | Natural Products Chem 515 | \checkmark | | | \checkmark | 2015 | |
| | Advanced Organic spectroscopy Chem 521 | \checkmark | | | | 2017 | |
| | Advanced polymer Chemistry Chem 523 | \checkmark | | | \checkmark | 2017 | |

Guest/Invited Lectures for Undergraduate Students

| # | Activity/Course Title and Code | Subject | College and University or Program | Date |
|---|-----------------------------------|---------|-----------------------------------|------|
| | | | | |
| | | | | |

Student Academic Supervision and Mentoring

| # | Level | Number of Students | From | to |
|---|-----------------------------------|--------------------|------|------|
| | Postgraduate (master program) | 3 | 2014 | 2016 |
| | Postgraduate (master program) | 3 | 2010 | 2014 |
| | undergraduate | 28 | 2016 | 2017 |
| | undergraduate | 20 | 2010 | 2014 |
| | undergraduate | 18 | 2014 | 2016 |

Supervision of Master and/or PhD Thesis

| # | Degree Type | Title | Institution | Date |
|---|-------------|---|---|------|
| | Ph.D | Studies on thermal stabilization of PVC against thermal and photo degradation | Faculty of Science Cairo University | 2006 |
| | Ph.D | Studies on the stabilization of PVC by Chemical modification using environmentally organic stabilizers | College of science for Girls University of Dammam | 2009 |
| | Ph.D | Studies on the use of biodegradable cellulose acetate in plastic and fiber applications | College of science for Girls University of Dammam | 2014 |
| | Master | Studies on the improvement of the thermal stability PAN and PVC through metal complexation | College of science for Girls University of Dammam | 2010 |
| | Master | Studies on the improvement of PAN properties through copolymerization | College of science for Girls University of Dammam | 2012 |
| | Master | Studies on the inhibition of thermal degradation of PVC by various techniques | College of science for Girls University of Dammam | 2013 |
| | Master | Studies on the Graft copolymerization onto starch | College of science Imam Abdulrahman Bin Faizal University | 2018 |
| | Master | Studies on chemical modification of biolopolymers | College of science Imam Abdulrahman Bin Faizal University | 2020 |

Ongoing Research Supervision



| # | Degree Type | Title | Institution | Date |
|---|-------------|--|---|------|
| 1 | PhD | Chemical modification of originally natural polymers | College of science Imam Abdulrahman Bin Faizal University | |
| | | | | |

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

| # | From | То | Position | Organization |
|---|------|------|------------------------------|--------------------|
| | 2011 | 2012 | Head of research units | College of Science |
| | 2020 | now | Head of water treatment unit | BASRC |

Committee Membership

| # | From | То | Position | Organization |
|---|------|------|---------------------|-------------------------------|
| | 2010 | now | Vice -head | Postgraduate committee |
| | 2010 | now | Vice head | Master development committee |
| | 2016 | now | Organic coordinator | BSC. development committee |
| | 2016 | 2017 | Vice head | Electronic learning committee |
| | 2010 | now | member | NCAAA committee |

Scientific Consultations

| # | From | То | Institute | Full-time or Part-time |
|---|------|----|--|------------------------|
| | | | Reviewer at scientific journals at ELSEVIER, SPRIGER, John Wiley, Science of publication | Any available time |

Volunteer Work

| # | From | То | Type of Volunteer | Organization |
|---|------|-----|---|--|
| | 2014 | now | Training graduate students as research assistants | College of Science Al-Rayan University of Dammam |
| | | | | |

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)



| 1 | Information technology |
|---|------------------------|
| 2 | computer |

Last Update