Republic of Iraq

Ministry of Higher Education and Scientific Research

University of Technology

Materials Engineering Department

(Curriculum Vitae)

Name	QAHTAN ADNAN HAMAD		
Birth Day / Place	1984 , Baghdad		
Work Address	University of Technology / Materials Engineering Department		
Sex	Male		
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Scientific Status	Professor in Materials Engineering Department		
General Specialization	Materials Engineering		
Specific Specialization	Composite Materials and Bio-Medical Materials Engineering		
Languages	Arabic & English		
Functionality Duration	(18) Years - Since 8/11/2006		
Educational Degrees	B.Sc.	2006	Al-Mustansiriyah University / College of Engineering
	M.Sc.	2009	University of Technology/ Engineering Materials Department
	Ph.D.	2015	University of Technology/ Engineering Materials Department
Thesis of M.Sc.	Studying Mechanical and Physical Properties for Polymer Matrix Composite Materials Reinforced by Fibers and Particles.		
Thesis of Ph.D.	Fabrication and Characterization of Denture Base Material by Hybrid Composites from Self Cured PMMA Resin.		

Undergraduate Teaching Experience	1) Numerical and Engineering Analysis 2) Principles of Computer Sciences 3) Non-Metallic Materials 4) Polymer Engineering 5) Materials Characterizations Technology 6) Rubber Materials Engineering 7) Composite Materials 8) Biomaterials 9) Dental Materials 10) Bio-Composite Materials
Postgraduate Teaching Experience	1) Polymeric Materials and Their Manufacturing Methods M.Sc. 2) Advanced Composite Materials Ph. D. 3) Dental Materials Engineering Ph. D. in College of Dentistry / Baghdad University 4) Biomaterials Ph. D.
Laboratories Experience	1) Powder Metallurgy Laboratory 2) Ceramic and Refractory Laboratory 3) Manufacture Methods Laboratory 4) Composite Materials Laboratory 5) Ceramic Materials Technology Laboratory 6) Rubber Laboratory
Committees	1) Member of Postgraduate Examination Committeeman at Dept. of Materials Engineering (2009-2010). 2) Member of Postgraduate Studies Committeeman at Dept. of Materials Engineering (2009-2010), (2022-2023) and (2023-2024). 3) Member of Students Discipline Committeeman at Dept. of Materials Engineering (2009-2010), (2015-2016), (2016-2017). 4) Member of Student Affairs and Educational Guidance Committeeman at Dept. of Materials Engineering (2015-2016), (2016-2017), (2017-2018). 5) Member of Prepare Seminars and Conferences Committeeman at Dept. of Materials Engineering (2015-2016), (2016-2017). 6) Member of the Valuation of Donated Books Committeeman at Dept. of Materials Engineering (2016-2017).

	7) Member of Undergraduate Examination Committeeman at Dept. of Materials Engineering (2016-2017), (2017-2018), (2018-2019). 8) Head and Member of Training and Factories Committeeman at Dept. of Materials Engineering (2016-2017), (2017-2018), (2018-2019). 9) Member of the Scientific Committee of the Polymeric Materials & Petrochemical Engineering Branch at Dept. of Materials Engineering (2017-2018), (2018-2019), (2019-2020), (2020-2021). 10) Member of the Scientific Committee of the Biomaterials & Prostheses Engineering Branch at Dept. of Materials Engineering (2020-2021), (2021-2022) and (2023-2024). 11) Member of Evaluation Examination Committeeman for the Final Stages of Undergraduate at Dept. of Materials Engineering (2018-2019). 12) Member of Scientific Promotion Committee at Dept. of Materials Engineering (2019-2020), (2020-2021) (2022-2023). 13) Member of Electronic Education Committee at Dept. of Materials Engineering (2019-2020). 14) Member of Sustainability and Finance Committee at Dept. of Materials Engineering (2021-2022). 15) Member of Sport Committee at Dept. of Materials Engineering (2022-2023). 16) Member of Grants and Gifts Committee at Dept. of Materials Engineering (2022-2023). 17) Member of the Central Scientific Committee at Dept. of Materials Engineering (2020-2021) and (2023-2024).
Positions Held	1) Rapporteur of Post-Graduate (2009-2010). 2) Rapporteur of Post-Graduate Examination Committeeman (2009-2010). 3) Head Reserve of Under-Graduate Examination Committeeman (2016-2017) and (2017-2018). 4) Head of Biomaterials and Prosthesis Engineering Branch (2020-2021), (2021-2022) and (2022-2023).
Letter of Acknowledgment and Appreciation	**Seventy Two Books**
Certificate of Acknowledgment and Appreciation	**Seven Certificate**

Number of Conferences	**Sixteen Conferences**
Number of Discussion Committees (Doctor)	**Fifteen**
Number of Discussion Committees (Master)	**Thirty One**
Supervising Post-Graduate Students (Doctor)	**Six**
Supervising Post-Graduate Students (Master)	**Nine**
Field of Expertise	**Dentistry, Biomedical, Prostheses, and Medicine Science**
Practical Experience	1) Working in the Projects Department of the FAO Company for Ministry of Water Resources (2005). 2) Working in the Maintenance Department at the Engineering Circle for the Bureau of Religious Endowments (2008).
Researches (Publications)	***Fifty-Five Researches in the Field of the Composite Materials and Bio-Composite Materials as follows:*** 1) Tensile and Buckling Analysis of the Polymer Composite Beam Reinforced by Natural Jute Fiber. 2) Effect of reinforcement system by using palm fiber for polymer composite material on the thermal and sound insulation. 3) Numerically and Experimentally Studying of Some Mechanical Properties of the Polyester Matrix Composite Material Reinforced by Jute fibers. 4) Investigation of Fatigue and Compression Strength for the PMMA Reinforced by Different System for Denture Applications. 5) Comparative Study the Flexural Properties and Impact Strength for PMMA Reinforced by Particles and Fibers for Prosthetic Complete Denture Base. 6) Studying the Tensile Properties and Morphology Test for the Self

	Cured PMMA Resin of Prosthetic Complete Denture. 7) Numerically and Theoretically Studying of the Upper Composite Complete Prosthetic Denture. 8) Investigation Some Mechanical Properties of Self Cured PMMA Resin Reinforced by Different Types of Nano Particles. 9) Study the Effect of Nano Ceramic Particles on Some Physical Properties of Acrylic Resins. 10) Effects of Irradiation by UV- Acceleration on Mechanical Properties of Polymer Blends (Polyester: Starch). 11) Study the Effect of Nano-Al_2O_3 and Fiber Glass on Mechanical and Physical Properties of PMMA Composites for Prosthetic Denture. 12) Studying the Mechanical Properties of Denture Base Materials Fabricated from Polymer Composite Materials. 13) Tensile Properties and Morphological Test of Heat Cured Acrylic Resin Reinforced by Natural Powders. 14) Experimental Investigation of Flexural and Impact Properties of PMMA Reinforced by Bamboo and Rice Husk Powders. 15) Studying the Effect of Natural Bamboo and Rice Husk Powders on Compressive Strength and Hardness of Acrylic Resin. 16) Study Thermal Behavior of Heat Cure Poly (Methyl Methacrylate) Reinforced by Bamboo and Rice Husk Powders for Denture Applications. 17) Study of Flexural and Impact Properties of Nano-Hybrid Composites Materials by Using Poly Methyl Methacrylate (PMMA) Matrix. 18) Investigation of Thyme and Pumpkin Nano powders Reinforced Epoxy Matrix Composites. 19) Study Compression, Hardness and Density properties of PMMA Reinforced by Natural Powder Used in Denture Base applications. 20) Influence of Pistachio Shell powder Reinforcement on FTIR and DSC Behavior of PMMA Acrylic Resin. 21) Tensile and morphological properties of PMMA composite reinforced by Pistachio Shell powder used in denture applications. 22) Investigation of the Effect of Pistachio Shell Powder on Flexural and Impact Properties of PMMA Composite for Denture Base Application. 23) Density and Water Absorption Properties of PMMA Reinforced by

	Peanut and Walnut Shells Powders used in Dental Applications. 24) Utilization of Palm Seeds Nano powder Reinforced Polyester as a Green Composite. 25) Effect of Different Fiber Reinforcements on Some Properties of Prosthetic Socket. 26) Investigation of Some Properties for Laminated Composite Used for Prosthetic Socket. 27) Tensile properties of laminated composite prosthetic socket reinforced by different fibers. 28) The Adding Influence of Natural Nano Powder to Unsaturated Polyester as a Green Composite for Prosthetic Socket Application. 29) Tensile and Stress Analysis of Hybrid Composite Prosthetic Socket Reinforced with Natural Fibers. 30) Comparative Study of Polymeric Laminated Composites Reinforced by Different Fibers of Prosthetic Socket by DSC and FTIR. 31) Flexural, impact and max. shear stress properties of fibers composite for prosthetic socket. 32) Effect of Weathering on Some Mechanical Properties of Prosthetic Composites. 33) Enhancement of the flexural and impact properties laminated biocomposite by new natural fibers for artificial lower limb socket. 34) Evaluation of Novel Chitosan Based Composites Coating on Wettability for Pure Titanium Implants. 35) Comparative Study of Biotin and Hydroxyapatite on Biological Properties of Composite Coating. 36) Investigation Some Characteristics of Biocomposites Coating for Biomedical Implants. 37) Investigation of Compression and Hardness for UHMWPE Biocomposites as Internal Bone Plate Fixation. 38) Natural Hybrid Reinforcement Effect on Mechanical Properties of UPE Composite. 39) Improving the Biological Properties of UHMWPE Biocomposite for Orthopedic Applications. 40) Investigation of some Characteristics of Biopolymer Composites Coating on SS 316L for Biomedical Applications. 41) Numerical and Experimental Study of Bio-Composite Plates as

	Internal Fixation. 42) Experimental, Theoretical, and Numerical Analysis of Laminated Composite Prosthetic Socket Reinforced with Flax and Cotton Fibers. 43) Evaluation the impact and flexural properties for lower limbs prosthetic socket. 44) Improving some mechanical properties of green bio-composite by natural pumpkin powders for prosthetic socket. 45) Flexural strength and impact properties of UHMWPE bio-composite as bone plate fixation. 46) Mechanical and Numerical Analysis of Polymer-Natural Fiber Composites for Denture Applications. 47) Study of Physical Properties of Biocomposite Based on the Polymer Blends Used for Denture Base Applications. 48) Investigation of the effect of thermal, mechanical, and morphological properties of bio-composites prosthetic socket. 49) Mechanical Properties of PMMA-Based Biocomposites with Polyamide and Polyvinylpyrrolidone Blends for Denture Applications. 50) Investigation of Roughness, Morphology, and Wettability Characteristics of Biopolymer Composite Coating on SS 316L for Biomedical Applications. 51) Investigation Some Mechanical Properties of PMMA Composite – Reinforced Ceramic Powders. 52) Enhancing the cell viability and antibacterial properties of alginate-based composite layer by adding active particulates. 53) Enhancing the Biocompatibility of Titanium Implants with Chitosan-Alginate Bio-composite Coatings Reinforced with HAP and ZnO. 54) A REVIEW ON DURABILITY OF HIGH-PERFORMANCE CELLULOSE-BASED BIOCOMPOSITES. 55) Investigation of tensile and compressive properties of laminated composite materials for below-knee prosthetic socket.