



# Ijlal Shahrukh Ateeq

Lecturer

## Personal Data

Nationality | Pakistan

Department | Biomedical Engineering Department, College of Engineering

Official IAU e-mail | [Lsateeq@iau.edu.sa](mailto:Lsateeq@iau.edu.sa)

Office Phone No. | +966-531564639

Google Scholar: <https://scholar.google.com/citations?hl=en&user=OsITIHoAAAAJ>

## Language Proficiency

Language	Read	Write	Speak
Arabic	Basic	Basic	Basic
English	Advanced	Advanced	Advanced
Others- Urdu	Advanced	Advanced	Advanced

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
August-2009	Master of Engineering in Electronics Engineering	Karachi, Pakistan.	NED University of Engineering and Technology, Main University Road Karachi, Pakistan.
April-2006	Bachelor of Science in Biomedical Engineering	Karachi, Pakistan	Sir Syed University of Engineering and Technology, Block-05 Gulshan-e -Iqbal Karachi, Pakistan.



Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date	
Lecturer	Imam Abdul Rahman Bin Faisal University, Dammam, KSA	<ul style="list-style-type: none"> <li>Teaching various courses to for Biomedical Engineering at undergraduate level.</li> <li>Supervision of undergraduate projects.</li> <li>Assisting in maintaining the functionality of departmental labs.</li> <li>Assisting in procurement for the labs.</li> <li>Carrying out research for the projects funded by the university and local funding agencies</li> </ul>	09-sep-2013 till date
Assistant Professor	Sir Syed University of Engineering and technology Karachi, Pakistan	<ul style="list-style-type: none"> <li>Taught and brought up various biomedical engineering subjects at undergraduate level</li> <li>Carrying out research and development activities</li> <li>Revision of the curriculum based on the national and international bench marking</li> </ul>	Feb-2010 to Aug-2013
Lecturer	Sir Syed University of Engineering and technology Karachi, Pakistan.	<ul style="list-style-type: none"> <li>Teaching and conducting labs for various biomedical engineering courses</li> <li>Research activities</li> <li>Projects supervision</li> </ul>	Sep-2007 to Feb-2010
Jr. Lecturer	Sir Syed University of Engineering and technology Karachi, Pakistan.	Labs and tutorials for various biomedical engineering courses Research assistance to faculty members Project supervision.	Aug-2006 to Sep 2007
Sales and Service Engineer	Universal Enterprises, Karachi, Pakistan.	Sales and service of wide range of medical equipment from leading tech giants of the world.	Jan-2006 to Aug-2006



## Scientific Achievements

#	Publication Details
1	Nora S Alkaltham, Reem A Aldhafiri, Ahmad M Al-Thobity, Hassan Alramadan, Hussain Aljubran, Ijlal Shahrukh Ateeq, Soban Q Khan, Sultan Akhtar, Mohammed M Gad, "Effect of Denture Disinfectants on the Mechanical Performance of 3D-Printed Denture Base Materials", <i>Polymers</i> , Vol. 15, Issue 5, Pg.1175, MDPI, 2023
2	Nawarah Alaseef, Sara Albasarah, Hanan Al Abdulghani, Fahad A Al-Harbi, Mohammed M Gad, Sultan Akhtar, Soban Q Khan, Ijlal Shahrukh Ateeq, Faisal D al-Qarni, "CAD-CAM Fabricated Denture Base Resins: In Vitro Investigation of the Minimum Acceptable Denture Base Thickness", <i>Journal of Prosthodontics</i> Vol. 31, Issue 9, Pg.799-805, 2022
3	Ibraheem Al-Naib, Ijlal Shahrukh Ateeq, "Excitation of Asymmetric Resonance with Symmetric Split-Ring Resonator" <i>Materials</i> , Vol.15, Issue 17, Pg.5921, MDPI, 2022.
4	Kamran Hameed, Sana Ijlal Shahrukh, Ijlal Shahrukh Ateeq, "Design of Monitoring System for Respiratory Diagnosis" <i>IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS)</i> , Pages, 1-8, IEEE, 2022.
5	Abdul Samad Khan, Alaa Alshaia, AlAnood AlDubayan, Sundus Alarifi, Abdulaziz Alamri, Hanan Aldossary, Syed Zubairuddin Ahmed, Ijlal Shahrukh Ateeq, Abbas Saeed Hakeem, Suriya Rehman, "Preparation of Nano-Apatite Grafted Glass-Fiber-Reinforced Composites for Orthodontic Application: Mechanical and In Vitro Biofilm Analysis" <i>Materials</i> , Vol. 10, Issue 15, Pg.3504, MDPI, 2022.
6	Latifah Almulla, Ibraheem Al-Naib, <b>Ijlal Shahrukh Ateeq</b> , Murad Althobaiti, "Observation and motor imagery balance tasks evaluation: An fNIRS feasibility study", <i>Plos one</i> , Vol. 17, Issue 3, Pg. e0265898, Public Library of Science. 2022.
7	Mohammed M Gad, Ahmed Rahoma, Zahid A Khan, Ahmad M Al-Thobity, Reem Abualsaud, Nora Alkaltham, Sultan Akhtar, <b>Ijlal Shahrukh Ateeq</b> , Fahad A Al-Harbi, "Closed Repair Technique: Innovative Surface Design for Polymethylmethacrylate Denture Base Repair" <i>Journal of Prosthodontics</i> , Vol. 31, Issue 3, Pg. 257-265. 2022.
8	Sara T Alzayyat, Ghadah A Almutiri, Jawhara K Aljandan, Raneem M Algarzai, Soban Q Khan, Sultan Akhtar, <b>Ijlal Shahrukh Ateeq</b> , Mohammed M Gad, "Effects of SiO <sub>2</sub> Incorporation on the Flexural Properties of a Denture Base Resin: An In Vitro Study" <i>European Journal of Dentistry</i> , Vol.16, Issue 01, Pg. 188-194, Theme Medical and Scientific Publishers Private Ltd. 2022
9	Fahad Al-Amri, Taher S Maatallah, Omar F Al-Amri, Sajid Ali, Sadaqat Ali, <b>Ijlal Shahrukh Ateeq</b> , Richu Zachariah, Tarek S Kayed, "Innovative technique for achieving uniform temperatures across solar panels using heat pipes and liquid immersion cooling in the harsh climate in the Kingdom of Saudi Arabia" <i>Alexandria Engineering Journal</i> , Vol.61, Issue 2, Pg. 1413-1424, Elsevier. 2022
10	Nawarah Alaseef, Sara Albasarah, Hanan Al Abdulghani, Fahad A Al-Harbi, Mohammed M Gad, Sultan Akhtar, Soban Q Khan, <b>Ijlal Shahrukh Ateeq</b> , Faisal D al-Qarni, "CAD-CAM Fabricated Denture Base Resins: In Vitro Investigation of the Minimum Acceptable Denture Base Thickness" <i>Journal of Prosthodontics</i> , 2022.
11	Abdul S Khan, Yara K AlMaimouni, Mashael A Benrashed, Nujood I Alyousef, Usama Siddiqui, Niyaz Ahmad, <b>Ijlal S Ateeq</b> , Abbas S Hakeem, "A laboratory study to assess the



	physical, mechanical, and 3-D structural properties of nano-apatite grafted glass fibre-based endodontic posts” International Endodontic Journal, Vol. 54, Issue 12 Pg.2307-2320. 2021
12	Shorouq K Hamid, AlAnood Hamad AlDubayan, Lujain A Alghamdi, Sultan Akhtar, Soban Q Khan, <b>Ijlal S Ateeq</b> , Mohammed M Gad, “Mechanical, Surface, and Optical Properties of PMMA Denture Base Material Modified with Azadirachta indica as an Antifungal Agent” The Journal of Contemporary Dental Practice, Vol. 22, Issue 6 Pg.655-664, 2021
13	Mohammed M Gad, Shaimaa M Fouda, Reem Abualsaud, Faris A Alshahrani, Ahmad M Al-Thobity, Soban Q Khan, Sultan Akhtar, <b>Ijlal Shahrukh Ateeq</b> , Mohamed A Helal, Fahad A Al-Harbi, “Strength and Surface Properties of a 3D-Printed Denture Base Polymer” Journal of Prosthodontics, 2021.
14	Sara Albasarah, Hanan Al Abdulghani, Nawarah Alaseef, Faisal D Al-Qarni, Sultan Akhtar, Soban Q Khan, <b>Ijlal Shahrukh Ateeq</b> , Mohammed M Gad, “Impact of ZrO <sub>2</sub> nanoparticles addition on flexural properties of denture base resin with different thickness” The Journal of Advanced Prosthodontics Vol.13 Issue 4 Pages 226, Korean Academy of Prosthodontics, 2021
15	<b>I.S. Ateeq</b> F.S. AlGadhib, R.M. AlQahtani, R.M. AlBej , W.M. AlOtaibi, E.A. AlFakih, “Conceptual Design and Simulation of a Smart Posture Corrective Orthosis for Kyphotic Patients” , The Canadian Medical and Biological Engineering Society Proceedings. (CMBEC) May 11-13,2021. Volume 44. 2021
16	Gameel Saleh, <b>Ijlal Shahrukh Ateeq</b> , Ibraheem Al-Naib, “Glucose level sensing using single asymmetric split ring resonator” , Sensors Volume 21 Issue 9 Pages 2945, Multidisciplinary Digital Publishing Institute,2021
17	Kamran Hameed, <b>Ijlal Shahrukh Ateeq</b> , Sana Hyder Khan, Shafia Tabassum,” An EEG analysis approach towards brain-to-brain synchronization” 2020 IEEE Asia-Pacific Conference on Computer Science and Data Engineering (CSDE), Pages 1-6, IEEE, 2020.
18	Mukarram Zubair, Rebecca Ferrari, Omar Alagha, Nuhu Dalhat Mu’azu, Nawaf I Blaisi, <b>Ijlal Shahrukh Ateeq</b> , Mohammad Saood Manzar, “Microwave Foaming of Materials: An Emerging Field,” Polymers, Vol. 12, Issue 11, MDPI. 2020.
19	K Hameed, M Hussain, <b>I Shahrukh</b> , “Monitor Aided Radio Control Mobile Robot (MARCMR),” World Congress on Medical Physics and Biomedical Engineering, Pages 593-598, Springer, Singapore, 2018.
20	W. Alzahrani, B. Alabdullah, S. Alghamdi, R. Alshuwayer, S. Almuhsin, G. Saleh, <b>I. Ateeq</b> , “Design of Flexible Textile Wearable Antennas for Telemedicine Applications,” International conference on Radiation Medicine (ICRM 2018), Riyadh, Saudi Arabia, 11-15. Feb. 2018.
21	Fatimah Alshafei, Hadeel Alafif, Maryam Alalawi, Zahra Al Rabie, <b>Eng Ijlal Shahrukh Ateeq</b> , Gameel Saleh, “Wireless Blood Pressure Self-Monitoring System,” International conference on Radiation Medicine (ICRM 2018), Riyadh, Saudi Arabia, 11-15. Feb. 2018.



22	<b>Ijlal Shahrukh Ateeq</b> , Kamran Hameed, Malik Khowaja, Sana Hyder Khan, “Design and Implementation of Digital Tele Stethoscope,” IFMBE Proceedings World Congress on Medical Physics and Biomedical Engineering, Pages 867-873, Springer, Singapore, 2018.
23	Kamran Hameed, Muhammad Muzammil Khan, <b>I Shahrukh Ateeq</b> , Arsalan Khan, Muhammad Ali, “Wireless Fire Security System for Hospitals,” 4th International Conference on Biomedical Engineering in Vietnam, Pages 266-269 Springer, Berlin, Heidelberg, 2013
24	<b>Ijlal Shahrukh Ateeq</b> , Kamran Hameed Muzammil Khan, Junaid Khalid, Muhammad Ali, “Proposed Implementable Model of Computer Interfaced Electrocardiogram (ECG) Module,” 4th International Conference on Biomedical Engineering in Vietnam, Pages 229-232, Springer, Berlin, Heidelberg, 2013
25	Amber Habib, <b>Ijlal Shahrukh Ateeq</b> , Kamran Hameed, “Biometric security system based on fingerprint recognition,” International Journal of Scientific Engineering and Technology Volume 2 Issue 9 Pages 892-894, 2013.
26	Kamran Hameed, Muhammad Muzammil Khan, <b>Ijlal Shahrukh Ateeq</b> , Syed Muhammad Omair, Muhammad Ahmer, Abdul Wajid, “Solar power water distillation unit,” Journal of Physics: Conference Series Volume 450 Issue 1, IOP Publishing, 2013.
27	S Manazir Hussain, <b>Ijlal Shahrukh Ateeq</b> , Kamran Hameed, Aisha Tahir, SM Omair, S Imran Alam, Sana H Khan, “A Novel Body Temperature Measuring and Data Transmitting System Using Bio-Sensors and Real-Time Transmission Technique,” 5th Kuala Lumpur International Conference on Biomedical Engineering, Pages 245-248 Springer, Berlin, Heidelberg, 2011.
28	D. Mujeeb K. Hameed, F. Azhar, <b>I. Shahrukh</b> , M. Muzammil, M. Aamair, “Telemetric Epilepsy Monitoring and Seizures Aid,” IFMBE Proceedings 26th Southern Biomedical Engineering Conference SBEC Volume 32 Pages 278-281 Springer, 2010.
29	Faisal Azhar, <b>Ijlal Shahrukh</b> , M Zeeshan-ul-Haque, Sarmad Shams, Ahsan Azhar, “A Hybrid Approach for Motion Artifact Elimination in Pulse Oximeter using MatLab,” 4th European Conference of the International Federation for Medical and Biological Engineering, Antwerp: Springer Berlin Heidelberg, Volume 22 Pages 1100-1103, 2009.
30	M Zeeshan-Ul-Haque, <b>I Shahrukh Ateeq</b> , S Manazir Hussain, Murtaza Halai, M Faraz Shaikh, Kamran Hameed, “Real Time Monitoring and Analysis of Non Invasive Blood Pressure using Lab Windows/CVI 8.0,” Northeast American Society of Engineering Education Conference ASEE, University of Bridgeport, USA, 2009

## Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Date
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1	Deanship of Scientific Research, Imam Abdulrahman Bin Faisal University	Innovative Technique for Achieving Uniform Temperatures across Solar Panels Using Heat Pipes and Liquid Immersion Cooling in the Harsh Climate in the Kingdom of Saudi Arabia	2020-2021
2	Deanship of Scientific Research, Imam Abdulrahman Bin Faisal University	Glucose-level Meters based on Novel Metasurfaces Biosensor Designs	2020-2021
3	Deanship of Scientific Research, Imam Abdulrahman Bin Faisal University	Utilization of Artificial Intelligence for a combined EEG/fNIRS system for Rehabilitation Protocols Improvement	2020-2021

### Membership of Scientific and Professional Societies and Organizations

- Pakistan Engineering Council Biomedical/193
- AMOUBA
- IEEE

### Teaching Activities

#### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Computer Programming	COMP 212	Lecturers & Labs
2	Advanced Computer Programming	COMP 361	Labs
3	Project Management	BIOEN 511	Lectures
4	Electrical Circuits	ENG 331	Labs & Tutorials
5	Electronic Devices and Circuits	ENG 332	Labs & Tutorials
6	Biomechanics	ENG 312	Labs
7	Biomaterials		Labs
8	Biomedical Electronics and Measurement	BIOEN 431	Labs
9	Biomedical Instrumentation	BIOEN 432	Labs
10	Summer Training - I	BIOEN 333	Lectures and Labs
11	Digital Design	BIOEN 452	Labs
12	Senior Design Project - I	BIOEN 531	Tutorials
13	Senior Design Project - II	BIOEN 532	Tutorials



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

### Administrative Responsibilities

#	From	To	Position	Organization
1	2022	Till date	Head	Quality Committee
2	2020	2022	Head	Lab and Safety Committee

### Committee Membership

#	From	To	Position	Name of the committee
1	2017	2020	Member	Scientific Research and Higher Studies
2	2017	2020	Member	Lab and Safety Committee
3	2016	2018	Member	Community Services and sustainable development projects committee, College of Engineering,
3	2016	Till now	Member	Quality Committee

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

1	<b>DATA SCIENCE with BOOTCAMP</b> 30 Hours Predictive modelling techniques using R
2	<b>PMP – Exam Preparation</b> 36-PDU Certification
3	<b>MATLAB</b> From beginner to advanced
4	<b>LabVIEW</b> Core 1 Core 2 Data Acquisition by using cDAQ, MyDAQ and MyRIO.
5	<b>Universal Testing Machine for Biomaterials- Instron</b>
6	<b>fNIRS System</b> Data Acquisition and Processing
7	<b>Network Analyzers – Firefox</b>
8	<b>3D-Printing – PLA – Makerbot- USA</b>
9	<b>PCB-Printing- LPKF – S63- Singel and Double Layer (FR4 and TMM substrates)</b>



10	<b>Biomatrix DataLite – Biomechanics Sensing System (Wired and Wireless)</b>
11	<b>Origin (advanced)</b>
12	<b>C / C++ (Advanced)</b>
13	<b>Arduino</b>
14	<b>Microsoft Operating Systems</b>

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### Last Update

13/04/2023