

# Muhammad Nabeel Anwar

Associate Professor

School of Mechanical & Manufacturing Engineering

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## About

Dr. Muhammad Nabeel Anwar is working as Associate Professor in the School of Mechanical & Manufacturing Engineering. Dr. Muhammad Nabeel Anwar has a PhD in Biomedical Engineering And Bioelectronics. Dr. Muhammad Nabeel Anwar has published 25 research articles & conference papers having a citation count of 675, carried out 6 projects and filed 3 intellectual property.

## Qualifications

<b>PhD in Biomedical Engineering And Bioelectronics</b> University of Genoa , Italy	2005 - 2008
<b>MSc in Medical Technology</b> Fachhochschule Lübeck , Germany	2003 - 2005
<b>BS in Computer And Telecommunication</b> Al-Khair University , Pakistan	1997 - 2001

## Experience

<b>Associate Professor</b> School of Mechanical & Manufacturing Engineering	2021- Present
<b>Associate Professor</b> School of Mechanical & Manufacturing Engineering	2018 - 2021
<b>Associate Professor</b> School of Mechanical & Manufacturing Engineering	2016 - 2018
<b>Assistant Professor</b> School of Mechanical & Manufacturing Engineering	2015 - 2016
<b>Assistant Professor</b> School of Mechanical & Manufacturing Engineering	2012 - 2015
<b>Assistant Professor</b> School of Mechanical & Manufacturing Engineering	2010 - 2012
<b>Director</b> ICESCO , ICESCO, Rabat, Morocco	2018 - 2021
<b>Research Scientist</b> RIKEN , RIKEN, Wako-Shi, Japan	2013 - 2014
<b>Postdoctoral Fellow</b> Tokyo Institute of Technology , Suzukakedai, Yokohama, Japan	2008 - 2010

Research Projects

National Projects

<b>Learning4All – A Framework for Disability Inclusion in Research and Education</b> <b>Funding Agency:</b> British Council <b>Amount:</b> PKR 9,630,000.00 <b>Status:</b> Approved_inprocess	2025
<b>Modeling and Simulation of Active Prosthetic Hand</b> <b>Funding Agency:</b> NESCOM <b>Amount:</b> PKR 200,000.00 <b>Status:</b> Completed	2015
<b>ICESCO Chair of Data Science and Analytics for Business at NUST</b> <b>Funding Agency:</b> Islamic World Educational, Scientific and Cultural Organization (ICESCO) <b>Amount:</b> PKR 22,920,000.00 <b>Status:</b> Approved_inprocess	2023
<b>Development of Electro-Medical Devices starting with Dialysis Machine</b> <b>Funding Agency:</b> NUST <b>Amount:</b> PKR 35,000,000.00 <b>Status:</b> Approved_inprocess	2023
<b>Design and Modification of Dinosaur and Solar System</b> <b>Funding Agency:</b> Pakistan Muesum of National History Islamabad <b>Amount:</b> PKR 205,000.00 <b>Status:</b> Completed	2012
<b>Large-Scale Oscillatory Brain Network Correlate early stage of Motor Learning</b> <b>Funding Agency:</b> HEC <b>Amount:</b> PKR 5,925,000.00 <b>Status:</b> Completed	2016

International Projects

Research Articles

<b>Comparison of Health Parameters in Postpartum Diastasis Recti: A Randomized Control Trial of SEMG Biofeedback-Assisted Core Strengthening Exercises with Kinesiotaping vs. Non-Assisted Exercises</b> <i>Ujala Afzal Quratulain Saeed Muhammad Nabeel Anwar Sanna Pervaiz Manahil Shahid Rimsha Javed Muhammad Umair Ali Seung Won Lee</i> <i>Healthcare</i> , Volume 12, Issue 16, Article Number 1567 <b>Impact Factor:</b> 2.4   <b>Quartile:</b> 2   <b>Citations:</b> 2 <b>DOI:</b> <a href="https://doi.org/10.3390/healthcare12161567">https://doi.org/10.3390/healthcare12161567</a>	2024
<b>Techno-Economic Analysis of Vacuum Membrane Distillation for Seawater Desalination</b> <i>Hassaan Idrees Sara Baber Sial Muhammad Sajid Muhammad Rashid Fahad Iqbal Khawaja Zaib Ali Muhammad Nabeel Anwar</i> <i>Membranes</i> , Volume 13, Issue 3, Article Number 339 <b>Impact Factor:</b> 4.562   <b>Quartile:</b> 1   <b>Citations:</b> 8 <b>DOI:</b> <a href="https://doi.org/10.3390/membranes13030339">https://doi.org/10.3390/membranes13030339</a>	2023
<b>The effects of unilateral transcranial direct current stimulation on unimanual laparoscopic peg-transfer task</b> <i>Aysha Umbreen Zaeem Hadi Muhammad Nabeel Anwar Muhammad Samran Navid</i> <i>Brain Research</i> , Volume 1771, Article Number 147656 <b>Impact Factor:</b> 3.252   <b>Quartile:</b> 3   <b>Citations:</b> 3 <b>DOI:</b> <a href="https://doi.org/10.1016/j.brainres.2021.147656">10.1016/j.brainres.2021.147656</a>	2021
<b>Visual Size Perception and Haptic Calibration After Late Emergence From Blindness</b> <i>Hafsah Ahmad Monica Gori Alessia Tonelli Muhammad Nabeel Anwar Giulio Sandini</i> <i>Perception</i> , Volume: 48, Pages 106-107, Supplement: 1 <b>Impact Factor:</b> 1.217   <b>Quartile:</b> 4 <b>DOI:</b> NA	2019
<b>Polymer Concentration and Solvent Variation Correlation with the Morphology and Water Filtration Analysis of Polyether Sulfone Microfiltration Membrane</b> <i>Muhammad Azeem U. R. Alvi Muhammad Waqas Khalid Nasir M. Ahmad Muhammad Bilal Khan Niazi Muhammad Nabeel Anwar Mehwish Batool Waqas</i>	2019

Akram Cheema Sikandar Rafiq

*Advances in Polymer Technology*, Volume 2019, Article ID 8074626, 11 pages

**Impact Factor:** 1.539 | **Quartile:** 3 | **Citations:** 44

**DOI:** 10.1155/2019/8074626

**Parametric analysis of wax printing technique for fabricating microfluidic paper-based analytic devices (μPAD) for milk adulteration analysis**

2019

Muhammad Younas Ammara Maryam Mushtaq Khan Ahmad Ahsan Nawaz Syed Husian Imran Jaffery Muhammad Nabeel Anwar Liaqat Ali

*Microfluidics and Nanofluidics*, Volume 23, Issue 3, Article Number 38

**Impact Factor:** 2.489 | **Quartile:** 2 | **Citations:** 47

**DOI:** 10.1007/s10404-019-2208-z

**The effects of a single session of chiropractic care on strength, cortical drive, and spinal excitability in stroke patients**

2019

Kelly Holt Imran Khan Niazi Rasmus Wiberg Nedergaard Jens Duehr Imran Amjad Muhammad Shaffique Muhammad Nabeel Anwar Harrison Ndetan Kemal S. Turker Heidi Haavik

*Scientific Reports*, Volume 9, Issue 1, Article Number 2673

**Impact Factor:** 3.998 | **Quartile:** 1 | **Citations:** 26

**DOI:** <https://doi.org/10.1038/s41598-019-39577-5>

**Graphene Oxide-PES-Based Mixed Matrix Membranes for Controllable Antibacterial Activity against Salmonella typhi and Water Treatment**

2018

Haleema Tariq Bhatti Nasir Mahmood Ahmad Muhammad Bilal Khan Niazi Muhammad Azeem-ur-Rehman Alvi Naveed Ahmad Muhammad Nabeel Anwar

Waqas Akram Cheema Sheraz Tariq Mehwish Batool Hussnain Ahmed Janjua Asim Laeeq Khan Asad U. Khan Zaeem Aman

*The International Journal of Polymer Science*, NULL

**Impact Factor:** 1.892 | **Quartile:** 2 | **Citations:** 17

**DOI:** <https://doi.org/10.1155/2018/7842148>

**Development and in vitro evaluation of cost effective amphotericin B polymeric emulsion**

2018

Zo-Ain Ishaq Naveed Ahmed Muhammad Nabeel Anwar Ihsan ul-Haq Tofeeq ur-Rehman Nasir Mahmood Ahmad Abdelhamid Elaissari

*Journal of Drug Delivery Science and Technology*, Volume 46, Pages 66-73

**Impact Factor:** 2.606 | **Quartile:** 2 | **Citations:** 9

**DOI:** <https://doi.org/10.1016/j.jddst.2018.05.001>

**Synergistic effect of Chitosan-Zinc Oxide Hybrid Nanoparticles on antibiofouling and water disinfection of mixed matrix polyethersulfone nanocomposite membranes**

2017

Iqra Munnawar Sadia S. Iqbal Muhammad Nabeel Anwar Mehwish Batool Sheraz Tariq Asim L. Khan Umair Nazar Tahir Jamil Nasir M. Ahmad Nosheen Fatima Rana

*Carbohydrate Polymers*, Volume 175, Pages 661-670

**Impact Factor:** 5.158 | **Quartile:** 1 | **Citations:** 88

**DOI:** 10.1016/j.carbpol.2017.08.036

**Multifunctional Curcumin Mediate Multitherapeutic Effects**

2017

Adeeb Shehzad Munibah Qureshi Muhammad Nabeel Anwar Young Sup Lee

*Journal of Food Science*, NULL

**Impact Factor:** 2.018 | **Quartile:** 2 | **Citations:** 81

**DOI:** 10.1111/1750-3841.13793

**Evaluation of eddy current signatures for predicting different heat treatment effects in chromium? vanadium (CrV) spring steel**

2017

Javeria Hashmi Mushtaq Khan Syed Husain Imran Jaffery Mahmood Khan Liaqat Ali Muhammad Nabeel Anwar Tayyab Subhani

*Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, Volume 231(3), Pages 259–271

**Impact Factor:** 1.281 | **Quartile:** 3 | **Citations:** 3

**DOI:** 10.1177/1464420715595432

**Analysis of weld characteristics of micro-plasma arc welding and tungsten inert gas welding of thin stainless steel (304L) sheet**

2016

Syed Husain Imran Jaffery Sadaf Batool Mushtaq Khan Ashfaq Khan Aamir Mubashar Liaqat Ali Nawar Khan Muhammad Nabeel Anwar

*Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, Volume 230, Issue 6, Pages, 1005-1017

**Impact Factor:** 1.625 | **Quartile:** 3 | **Citations:** 27

**DOI:** 10.1177/1464420715592438

**A Review of Techniques for Detectio of Movement Intention using Movement-Related Cortical Potentials**

2015

Aqsa Shakeel Muhammad Samran Navid Muhammad Nabeel Anwar Suleman Mazhar Mads Jochumsen Imran Khan Niazi

<i>Computational and Mathematical Methods in Medicine</i> , Volume 2015, Article ID 346217, 13 pages	
<b>Impact Factor:</b> 0.887   <b>Quartile:</b> 3   <b>Citations:</b> 123	
<b>DOI:</b> <a href="http://dx.doi.org/10.1155/2015/346217">http://dx.doi.org/10.1155/2015/346217</a>	
<b>Online multi-class brain-computer interface for detection and classification of lower limb movement intentions and kinetics for stroke rehabilitation</b>	2015
<i>Mads Jochumsen Imran Khan Niazi Muhammad Samran Navid Muhammad Nabeel Anwar Dario Farina Kim Dremstrup</i>	
<i>Brain-Computer Interfaces</i> , Volume:2, Issue:4, Page:202-210	
<b>Impact Factor:</b> N/A   <b>Citations:</b> 23	
<b>DOI:</b> 10.1080/2326263X.2015.1114978	
<b>Neural dynamics in motor preparation: From phase-mediated global computation to amplitude-mediated local computation</b>	2015
<i>Muhammad Nabeel Anwar Masahiro Kawasaki Yuji Mizuno Kimitaka Nakazawa Keiichi Kitajo Takafumi Kajihara</i>	
<i>NeuroImage</i> , Volume 118, Pages 445-455	
<b>Impact Factor:</b> 6.357   <b>Quartile:</b> 1   <b>Citations:</b> 27	
<b>DOI:</b> doi:10.1016/j.neuroimage.2015.05.032	
<b>Preparation of Antibacterial Cotton Fabric Using Chitosan-silver Nanoparticles</b>	2015
<i>Dooa Arif Muhammad Bilal Khan Niazi Noaman Ul-Haq Muhammad Nabeel Anwar Emran Hashmi</i>	
<i>Fibers and Polymers</i> , NULL	
<b>Impact Factor:</b> 1.002   <b>Quartile:</b> 2   <b>Citations:</b> 66	
<b>DOI:</b> DOI:10.1007/s12221-015-5245-6	
<b>Use of wear map approach in optimization of drilling parameters for petroleum exploration</b>	2015
<i>Syed Husain Imran Jaffery Shahid Sadiq Mushtaq Khan Liaqat Ali Muhammad Nabeel Anwar Aamir Mubashar</i>	
<i>International Journal of Mechanical and Production Engineering</i> , Volume 3, Issue 6, Pages 63-65	
<b>Impact Factor:</b> 0	
<b>DOI:</b> 00-00	
<b>A possible correlation between performance IQ, visuomotor adaptation ability and mu suppression</b>	2015
<i>Muhammad Nabeel Anwar Muhammad Samran Navid Mushtaq Khan Keiichi Kitajo</i>	
<i>Brain Research</i> , Volume:1603, Page:84-93	
<b>Impact Factor:</b> 2.561   <b>Quartile:</b> 3   <b>Citations:</b> 12	
<b>DOI:</b> 10.1016/j.brainres.2015.01.045	
<b>Trial-by-Trial Adaptation of Movements during Mental Practice under Force Field</b>	2013
<i>Muhammad Nabeel Anwar Salman Hameed Khan</i>	
<i>Computational and Mathematical Methods in Medicine</i> , Volume 2013, Article ID 109497, 11 pages	
<b>Impact Factor:</b> 1.018   <b>Quartile:</b> 3   <b>Citations:</b> 3	
<b>DOI:</b> 10.1155/2013/109497	
<b>Motor imagery facilitates force field learning</b>	2011
<i>Muhammad Nabeel Anwar Naoki Tomi Koji Ito</i>	
<i>Brain Research</i> , Volume 1395, Pages 21-29	
<b>Impact Factor:</b> 2.728   <b>Quartile:</b> 3   <b>Citations:</b> 16	
<b>DOI:</b> 10.1016/j.brainres.2011.04.030	
<b>Real-time artifact filtering in continuous VEPs/fMRI recording</b>	2009
<i>Muhammad Nabeel Anwar Laura Bonzano Davide Rossi Sebastiano Luca Roccatagliata Giovanni Gualniera Paolo Vitali Carla Ogliastro Luciano Spadavecchia Guido Rodriguez Vittorio Sanguineti Pietro Morasso Fabio Bandini</i>	
<i>Journal of Neuroscience Methods</i> , Volume 184, Issue 2, Pages 213-223	
<b>Impact Factor:</b> 2.295   <b>Quartile:</b> 3   <b>Citations:</b> 5	
<b>DOI:</b> 10.1016/j.jneumeth.2009.08.003	

Conference Proceedings

<b>A Fusion Approach: Gesture, Voice, Touch, and Sonar Technologies in Mobile Robot</b> <i>Mina Khalid Muhammad Raheel Qaisar Atiqa Saeed Nimra Zulfiqar Muhammad Nabeel Anwar</i> <i>10th International Conference on Control, Decision, and Information, res.country(152,)</i> <b>Citations:</b> N/A <b>DOI:</b> <a href="https://codit2024.com/index.php">https://codit2024.com/index.php</a>	2024
<b>Plantar Pressure Response for Classification of Parkinson's Disease patients with Gait Abnormalities using Machine Learning</b> <i>Namra Afzal Bisma Ramzan Noor Fatima Mina Khalid Dr Muhammad Asim Waris Dr Syed Omer Gilani Dr. Muhammad Nabeel Anwar</i> <i>2023 International Conference on Digital Futures and Transformative Technologies, ICoDT2 2023, res.country(177,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICoDT259378.2023.10325748	2023

Intellectual Property

Copyrights

<b>User Interface of Examining the Effectiveness ofVirtual Reality in Stress Management</b> <b>Status:</b> Filed	2024
<b>Source ode of Examining the Effectiveness of Virtual Reality in Stress Management</b> <b>Status:</b> Filed	2024

Patents

<b>Ankle Foot Orthotics (class-01)</b> <b>Status:</b> Granted	2018
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Industrial Designs

Trademarks