

Faculty Resume

Name	Dr. Muhammad Atif				
	<p>Date of Birth: 04-01-1975 Nationality: Pakistan Marital Status: Married Sex: Male Religion: Islam Subject: Physics</p>				
	<p><u>Home Address:</u> 30-A Rehman Housing Society, B. O. R, Johar Town, Lahore 54000, Pakistan.</p>				
Personal	<p><u>Office Address:</u> Department of Physics, Government College University, Katchery Road, Lahore, Pakistan. Postal Code: 54000</p>				
	<p>Mobile Phone Number: +923218805424 Office Phone Number: +92 42 99211637</p>				
	<p>Email: muhammadatif@gcu.edu.pk muhammadatif75@hotmail.com</p>				
	Year	Division	GPA or %	Marks	Degree
	2019				PhD. Institut für Optik und Atomare Physik, Technische Universität Berlin, Germany.
	2006	First	77.6%	77.6%	M. Phil. Centre of Excellence Solid State Physics, University of the Punjab, Lahore.
	1999	First	62.9%	755/1200	M.Sc. Govt. Islamia College Civil Lines Lahore. (PU)
	1995	First	63.6%	509/800	B.Sc. Govt. Islamia College Civil Lines Lahore. (PU)
	1993	First	64.4%	709/1100	F.Sc. Govt. Islamia College Railway Road, Lahore. (BISE)
	1991	First	71.4%	607/850	Matriculation: Don Bosco High School, Lahore (BISE)

Experience	Date	Title		Institution.
	12. 04. 2012 -to date	Assistant Professor		Government College University, Lahore.
	02. 07. 2007 to 12. 04. 2012	Lecturer (GCU service)		Government College University, Lahore
		Lecturer (Contract)		Government College University, Lahore.
Honor and Awards	Year	Achievement	Distinction	
	1999	Roll of Honour	Academic Roll of Honour Awarded by Govt. Islamia College Civil Lines Lahore for the best result in master's in physics.	
Language Skills	Language		Written	Spoken
	English		Good	Fair
	Urdu		Very Good	Excellent
	Punjabi		Fair	Excellent
	Deutsch		Reading Fair	-
	Arabic		Reading Fair	-
Memberships	Co-Advisor, Jones Physics Society, Physics Department, GC University, Lahore. Arranged Trips to Murree, Salt Range Khewora mines, Atomic Energy, GIKI, Quaid-e-Azam University Islamabad. Advisor, Jones Physics Society, Physics Department, GC University, Lahore. Life member of Pakistan Physical Society (PPS). Teaching Physics to INTERMEDIATE, BACHELORS, MASTERS and MASTER OF PHILOSOPHY. Proctorial duties. Tutorial Classes. Paper setting for F.Sc (Send up and Pre-board) B.Sc, M.Sc, and M. Phil. Member Board of Studies, Department of Physics, GC University, Lahore. B. Sc: Taught Statistical Physics, Mechanics and Relativity, Electricity and Magnetism, Heat and Thermodynamics, Geometrical and Physical Optics, Laboratory, and Mathematical Methods of Physics.			

	<p>M. Sc: Taught Mathematical Methods of Physics.</p> <p>M. Phil: Taught Advanced Engineering Mathematics.</p> <p>M. Phil: Teaching Photonics and Electro-optic modulators.</p> <p>Attendance In-charge of the junior staff in the Physics Department, GC University, Lahore.</p> <p>Assistant Controller of Examination for B.Sc and top up program in the Physics Department, GC University, Lahore.</p> <p>Departmental Sports coordinator (January 2021 – August 2022).</p> <p>BS coordinator (Regular Program/ Morning, July 2022 - to date)</p>
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M. Phil and B. Sc / BS (Honors) students supervision	Name	Registration No. / Roll No.	Degree	Session
	Muzammal Amin	2019-GCUL-MP-PHY-207	M. Phil	2019 - 2021
	Muhammad Awais	2020-GCUL-MP-PHY-214	M. Phil	2020 - 2022
	Adeel Ahmad	2020-GCUL-MP-PHY-250	M. Phil	2020 - 2022
	Mahjabeen Nawaz	2021-GCUL-MP-PHY-172	M. Phil	2021 – 2023
	Usman Ali	2022-GCUL-MP-PHY-444	M. Phil	2022-2024
	Muhammad Umair	2022-GCUL-MP-PHY-442	M. Phil	2022-2024
	Muhammad Usman	2023-GCUL-MP-PHY-411	M. Phil (In Progress)	2023-2025
	Zara Ather	2024-GCUL-MP-PHY-430	M. Phil (In Progress)	2024-2026
	Shoaib Akmal	2016-BH-PHY- 692	B. Sc	2016 - 2020
	Amir Saleem	2016-BH-PHY- 719	B. Sc	2016 - 2020
	Ahmed Basit Latif	2017-BH-PHY- 450	B. Sc	2017 - 2021
	Abdus Salam	2018-GCUL-BH-PHY-325	B.Sc	2018 - 2022
	Arbaz Ahmad	2018-GCUL-BH-PHY-312	B.Sc	2018 – 2022
	Zainab Bibi	2018-GCUL-BH(E)-PHY- 217	B.Sc.	2018 - 2022
	Rimsha Tariq	2019-GCUL-BH-PHY-354	B.Sc	2019 - 2023
	Muhammad Aamir Nawazish	2019-GCUL-BH-PHY-337	B.Sc	2019 - 2023

Sanaullah	2019-GCUL-BH-PHY-351	B.Sc	2019 - 2023
Moeen Ahmad	2019-GCUL-BH(E)-PHY-245	B.Sc	2019 - 2023
Muhammad Arslan	2019-GCUL-BH(E)-PHY-279	B.Sc	2019 - 2023
Taha Ahmad	2020-GCUL-BH-PHY-489	B.Sc	2020 - 2024
Eman Iqbal	2020-GCUL-BH(E)-PHY-249	B.Sc	2020 - 2024
Alishba Khan	2020-GCUL-BH(E)-PHY-235	B.Sc	2020 - 2024
Shah Jahan	2021-GCUL-BS-PHY-431	B.Sc	2021-2025
Zonash Khurram Rana	2021-GCUL-BS-PHY-461	B.Sc	2021-2025
Aleena Yameen	2021-GCUL-BS-PHY-189	B.Sc	2021-2025
Ahsan Riaz	2021-GCUL-BS-PHY-174	B.Sc	2021-2025
Syed Ali Mashad	2022-GCUL-BS-PHY-1452	BS	2022-2026 (In Progress)
Arslan Abbas	2022-GCUL-BS-PHY-1428	BS	2022-2026 (In Progress)

Service Activity, Training Courses, Seminars and Workshops	<p>Attended the 9th National Symposium on Frontiers in Physics held at GC University, Lahore.</p> <p>A three months diploma course in Microsoft Word and Excel from the National College of Business Administration.</p> <p>Attended a month long “English Language Proficiency Skills” course arranged by Quality Enhancement Cell GCU Lahore.</p> <p>Attended three days, workshop arranged by the QEC for the newly inducted faculty at GCU.</p> <p>Appointed as practical examiner for F.Sc by BISE Lahore.</p> <p>Participated in a Lecture course arranged by Prof. Dr. h. c. mult. Syed Muhammad Qaim on “Scientific and Environmental Aspects of Energy Production” (with emphasis on nuclear energy) 12th March 2012 to 30th March 2012.</p>
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	<p>Attended a seminar given by Prof. Dr. Woo-Young Choi on “Silicon Electronic-Photonic Integrated Circuits” at Technische Universität Berlin Germany 16th October 2014.</p> <p>Attended a lecture given by Prof. Dr. Ursula Gibson on “Active and Passive novel NIR waveguide materials” at Technische Universität Berlin Germany October 24, 2014.</p> <p>Attended German language courses A1 and A2 from ZEMS Technische Universität Berlin summer semester 2014 and winter semester 2014/ 2015.</p> <p>Attended CeBIT exhibition held in Hannover Germany 16.03.2015.</p> <p>Participated in a workshop of Keysight Technologies at Fraunhofer Heinrich Hertz Institute, Berlin Germany on April 14th, 2015.</p> <p>Attended Annual Laser and general safety seminar, at Institut für Optik und Atomare Physik Technische Universität, Berlin Germany on 8th May 2015.</p> <p>Attended seminar given by Dr. Annemarie Huijser on “Controlling ultrafast processes in artificial photosynthesis” at Institut für Optik und Atomare Physik Technische Universität, Berlin Germany on 19th June 2015.</p> <p>Attended Annual Laser and general safety seminar, at Institut für Optik und Atomare Physik Technische Universität, Berlin Germany on 19th February 2016.</p> <p>Participated in a one-day workshop arranged by Sicoya GmbH at Institut für Optik und Atomare Physik Technische Universität, Berlin Germany on 24th February 2016.</p> <p>Participated in Regional E-conference on Physics (18-21 Jan, 2022).</p> <p>Attended National Symposium on The Role of Mathematics in Science and Technology development, jointly arranged by Pakistan nuclear society, and Pakistan physical society, at Government College University, Lahore on 23rd May 2022.</p>
Research Work	<ol style="list-style-type: none"> 1. Optical Properties of Linear and Non-Linear Periodic Structure.” 2. “Simulation of Building Blocks for Silicon Photonic Integrated Circuits.”

Teaching	<p>I have been involved in rigorous teaching since August 2004 to date.</p> <ol style="list-style-type: none"> 1. Mechanics and Relativity 2. Electricity and Magnetism 3. Heat and Thermodynamics 4. Mathematical Methods of Physics 5. Statistical Physics 6. B.Sc Lab I 7. B.Sc Lab II 8. Geometrical and Physical Optics 9. Applied Physics 10. Advanced Engineering Mathematics 11. Photonics and Electro-optic modulators 12. Intermediate classes 13. Introductory Mechanics Lab
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Publications	<p>Conference Paper</p> <ol style="list-style-type: none"> 1. S. Meister, M. Grehn, H. Rhee, M. Vitali, C. Theiss, S. Kupijai, A. Al-Saadi, D. Bronzi, S. Otte, M. Henniges, D. Selicke, M. Atif, E. Schwartz, S. Lischke, D. Stolarek, A. Mai, M. Kaynak, H. H. Richter and L. Zimmermann, "Silicon Photonics for 100 Gbit/s Intra-data Center Optical Interconnects," in <i>Optical Interconnects XVI</i>, California, 2016. 2. Muzammal Amin, Muhammad Atif, Abdul Latif, "Reduction of temperature in layered structure of transceiver by heat conduction through thermal simulation" in 2022 International Conference on Electrical Engineering and Photonics, St. Petersburg, Russian Federation, 2022.
Creative Accomplishment	<p>Patent</p> <ol style="list-style-type: none"> 1. International Patent application "Optoelectronic Component Having a Resonator" No: PCT/DE2016/200180, International Publication No: WO 2016/165708 A1, date: 20.10.2016. Stefan Meister, Hanjo Rhee, Christoph Theiss, Aws Al-Saadi, Marvin Henniges, Muhammad Atif. https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016165708&cid=P10-MIV5ED-80986-1 Expired 27.04.2021
Journal Publications	<ol style="list-style-type: none"> 1. S. S. A. Gillani, M. Awais, M. Atif, I. Zeba, M. Shakil and Riaz Ahmad, "Computational investigation to explore the effects of metals (Mg, Ca, Sr) doping on phase transition, electronic band structure and their

	repercussions on optical, elastic and mechanical properties of BaThO ₃ " Physica Scripta, vol. 98, no. 1, 2022.
Ph.D Thesis Published	Muhammad Atif , "Simulation of Building Blocks for Silicon Photonic Integrated Circuits", Ph.D, Thesis, date: 11. 03. 2019, Berlin: DepositOnce / Technische Universität Berlin https://doi.org/10.14279/depositonce-8257