



Curriculum Vitae

Personal:

Name: **Bakht Amin Bacha**

Father's Name: Shah Zamin Bacha.

Domicile: Swat, KP, Pakistan.

CNIC: 15602-9234168-3

Date of birth: 11 November 1978.

Address: Village Fateh Pur, P/O & Tensile Khwazakhela, District
Swat, KP, Pakistan.

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aminoptics@gmail.com

Language:

English, Urdu, Pashtu.

Qualifications:

- Ph.D, Physics (Quantum optics) (2014), Hazara University Mansehra, KP, Pakistan.
- M.Sc, Physics, (2006), University of Malakand, KP, Pakistan.
- B.Sc. Physics, Maths. A, Maths. B (2001) University of Peshawar, KP, Pakistan
- F.Sc.Pre-Engg., (1997): BISE Saidu Sharif Swat, KP, Pakistan.
- S.S.C. Science, (1995): BISE Saidu Sharif Swat, KP, Pakistan.

Ph.D Supervisor:

Prof. Dr. Iftikhar Ahmad, Chairman, Department of Physics,
University of Malakand, KP, Pakistan

Ph.D Co-Supervisor:

Prof. Dr. Fazal Ghafoor, Comsat Institute of Information Technology(CIIT) Islamabad.

Ph.D Thesis Title:

- SUPERLUMINALITY AND KERR NONLINEARITY IN FAST LIGHT

Teaching Experience:

- 1) Worked as lecturer in the Govt:AKL,PG College Matta Swat from August, 2006 to September 2008
- 2) Worked as researcher in “Center for Quantum optics, COMSATS Institute of Information Technology (CIIT) Islamabad Pakistan (2009-2014).
- 3) Worked as Assistant Professor (IPFP) Department of Physics, University of Malakand (2015-2016).
- 4) Working as Assistant Professor (visiting) at UOM District Dir (L) from August, 2016 to 14-03-2018
- 5) Working is a Lecture at University of Malakand from 14-03-2018 to till date.

Research interest:

Quantum optics, Slow and fast light, Kerr nonlinearity, Plasmonics, Optical cloaking, Solitonic behaviors of surface Plasmon polariton waves, Electromagnetically induced transparency and Gain-assisted modeling, Spectral hole burning, GH shifts, Atom microscopy, Birefringence, Entanglement, Optical control in grapheme medium, Quantum information, phase shifts in interferometry, Fresnel and rotary photon drag, complex conductivity dependent optical responses, Soliton wave propagation and event cloaking.

Publications (IF: 141.846):

- 1) **B. A. Bacha**, I. Ahmad, A. Ullah, H. Ali 2013 “Superluminal propagation in a polychromatically driven gain assisted four level n-type atomic” *Physica Scripta* 88, 045402 IF: 2.487
- 2) **B. A. Bacha**, F. Ghafoor, I. Ahmad, A. Rahman 2014 “Gain assisted multiple superluminal region via a kerr nonlinearity in a double lamda type atomic” *Laser Phys.* 24, 055401 IF: 1.333
- 3) H. Rahman, Hizbullah, M. S. A. Jabar, A. Khan, I. Ahmad, **B. A. Bacha** 2014 “Coherent control of polarization state rotation via doppler broadening and Kerr nonlinearity in a spinning fast light medium” *Laser Phys.* 24, 115404 IF: 1.333
- 4) F. Ghafoor, **B. A. Bacha** S. Khan 2015 “Inverse Doppler shift and control field as coherence generators for the stability in superluminal light” *Phy. Rev A* 91, 053807. IF: 3.140
- 5) H. Ullah, A. A. khan, N. Khan, Iftikhar Ahmad and **B. A. Bacha** 2015 Superposition of Stationary Wave Fields Via Atom Microscopy, *Commun. Theor. Phys.* 63, 340-346; IF: 1.968
- 6) A. A. Khan, M. S. A. Jabar, M. Jalaluddin, **B. A. Bacha**, I. Ahmad 2015 “Spectral Hole Burning via Kerr Nonlinearity” *Comm. Theor. Phys.* 64, 473 ; IF1.968
- 7) M. S. A. Jabar, **B. A. Bacha**, M. Jalaluddin, I. Ahmad 2015 “Atom Microscopy via Dual Resonant Superposition” *Commu.Theor. Phys.* 64, 741–746. IF: 1.968
- 8) M. S. A. Jabar, **B. A. Bacha**, I. Ahmad 2015 “Temporal cloak via Doppler broadening., *Laser Phys.* 25, 065405. IF: 1.333
- 9) M S Abdul Jabar, **B. A. Bacha** and Iftikhar Ahmad 2016“Time gap for temporal cloak based on spectral hole burning in atomic medium, *Chin. Phys. B*, 25, 084200 IF: 1.494
- 10) A. Ali, **B. A. Bacha**, M S A. Jabar, A. A. Khan, R. Ud din, I. Ahmad 2016 “Corrigendum: Conductivity dependent surface plasmon polariton propagation” *Laser Phys.* 26, 095204; IF: 1.333
- 11) A. A. Khan, **B. A. Bacha**, R. A. Khan 2016 “Optical activity via Kerr nonlinearity in a spinning chiral medium” *Physics Letters A* 380, 3724-3731; IF: 2.654

- 12) A. Ali, **B. A. Bacha**, M. S. A. Jabar, A. A. Khan, R. Ud Din, I. Ahmad 2016 Conductivity dependent surface plasmon polariton propagation, *Laser Physics* 26, 095204; IF: 1.333
- 13) N. Khan, **B. A. Bacha**, A. Iqbal, A. Ur Rehman and A. Afaq, 2017 “Gain-assisted superluminal propagation and rotary drag of photon and surface plasmon polaritons, *Phys. Rev. A* 96, 013848; IF: 3.140
- 14) S. Ullah, F. Muhammad, I. Ullah, **B. A. Bacha** and S. A. Ullah 2017 “Distortion-free propagation in a chiral medium using the coherent superposition of atomic states” *Laser Phys.* 27, 115203 IF: 1.333
- 15) H. Iqbal, M. Idrees, M. Javed, **B. A. Bacha**, S. Khan and S. A. Ullah 2017 “Goos–Hanchen shift from cold and hot atomic media using Kerr nonlinearity” *Journal of Russian Laser Research* 38(2017) 426-436 IF: 0.607
- 16) S. Ahmad, A. Ahmad, **B. A. Bacha**, A. A. Khan and M. S. Abdul Jabar 2017 “Solitary waves of surface plasmon polariton via phase shift under Doppler broadening and Kerr nonlinearity” *European Physical Journal Plus* 132, 506, IF: 3.228
- 17) N. Khan, **B. A. Bacha**, Azmat Iqbal, Amin Ur Rahman and A. Afaq 2017 “Erratum: Gain-assisted superluminal propagation and rotary drag of photon and surface plasmon polaritons” *Phys. Rev. A* 96, 013848 IF: 3.140
- 18) M. Idrees, **B. A. Bacha**, M. Javed and S. A. Ullah 2017 “Precise position measurement of an atom using superposition of two standing wave fields” *Laser Physics* 27 (2017) 045202, IF: 1.333
- 19) S. A. Shah, Sanauallah, M. Idrees, **B. A. Bacha**, S. A. Ullah 2017 “Surface plasmon induced atom localization in a tripod-type four level atomic system” *Physica scripta*; 15 IF: 2.487
- 20) A. iqbal, N. Khan, **B. A. Bacha**, A. Ur Rahman, A. Ahmad 2017 “Photon drag enhancement by a slow light moving medium via electromagnetically induced transparency” *Phys. Lett. A* 381(2017) IF: 2.654
- 21) S. A. Shah, **B. A. Bacha** 2017 “One Dimensional Atom Microscopy Via Surface Plasmon Polariton” Conference: *Frontier in Optics*

- 22) R. Din, Q. He, **B. A. Bacha**, I. Ahmad, G. Ge 2018 “Unusual refraction and Fizeau effect for a linearly polarized pulse in rotary chiral media” *JOSA B*; 35,(2018) 1817 IF: 2.180
- 23) **B. A. Bacha**, T. khan, N. khan, S. A. Allah, A. Jabar, A. Ur Rehman 2018 “The hybrid mode propagation of surface plasmon polaritons at the interface of graphene and a chiral medium” *Eur. Phys. J. Plus* 133 ,2018; IF: 3.228
- 24) S. Ullah, M. Maaz, **B. A. Bacha**, S. khan, A. Ullah 2018 “Rotary photon drag in a Mach-Zehnder-type Sagnac interferometer” *Optik* (2018) IF: 2.443
- 25) **B. A. Bacha**, A Ur Rehman, A. Iqbal, N. khan 2018 “Implications of spectral-hole burning on the manipulation of spatial Goos–Hänchen shift in an atomic cell” *Physics Letter A*. 11.036 IF: 2.654
- 26) Bakhtawar, M. Haneef, **B. A. Bacha**, H. khan, M Arif 2018 “Surface plasmon polariton at the interface of dielectric and graphene medium using Kerr effect” *Chin. Phys. B*, 27, 114215, IF 1.494
- 27) **B. A. Bacha**, M.S A. jabar 2018 “The event cloaking from a birefringent medium via Kerr nonlinearity” *Journal optics*, 20, 095703 IF: 2.516
- 28) S. A. Shah, **B. A. Bacha** 2018 “Surface plasmon induced atom localization in a tripod-type four level atomic system” *Physica Scripta*, 94, 035401 IF: 2.487
- 29) K. Ali, M. Ullah, **B. A. Bacha** 2019 “Complex conductivity-dependent two-dimensional atom microscopy” *European Physical Journal plus* 134(12). IF: 3.228
- 30) U. Wahid, A. Khan, **B. A. Bacha**, S. A. Ullah 2019 “Surface plasmon hole burning at the interface of Cesium and Gold by Kerr nonlinearity” *Optik* 202:163651. IF: 2.443
- 31) U. Khan, **B. A. Bacha** , S.A. Ullah, K. Ullah 2019 “Control of light in a quantized four level graphene atomic system via self and cross-Kerr nonlinearity” *Physics Letters A* 383(35):125998. IF: 2.654
- 32) F. Ghafoor, **B. A. Bacha**, S. Khan 2019 “Reply to "Comment on "Inverse Doppler-shift and control-field as coherence generators for the stability in superluminal light” *Phys. Rev. A*. IF: 3.140

- 33) M. R. Khan, M. Haneef, M. Iqbal, Z. Khan, **Bakth Amin Bacha**, H. Khan, Bakhtawar 2019 “Spectral hole burning of surface plasmon polaritons via soliton waves at the interface of sodium and gold media” *Physica Scripta* 94(7):075403. IF: 2.487
- 34) N. Khan, **B. A. Bacha**, A. Iqbal, A. U. Rahman, A. Ahmad 2019 Reply to “Comment on ‘Gain-assisted superluminal propagation and rotary drag of photon and surface plasmon polaritons’” *Phy. Rev. A*. IF: 3.140
- 35) R. Khan, M. Iqbal, M. Haneef, **B. A. Bacha**, H. Khan, **Bakhtawar**, Mariam 2019 “Effect of the atomic dipole relaxation and the pulse width on temporal cloaking” *Laser Physics* 29(4):045403. IF: 1. 333
- 36) A. Iqbal, K. Humayun, S. Maqsood, S. Jawaid, A. Ahmad, A. U. Rahman **B. A. Bacha** 2019 “Quantum photodetachment of hydrogen negative ion in a harmonic potential subjected to static electric field” *Chinese Physics B* 28(2):023201. IF: 1.494
- 37) A. Ahmad, N. Jan, S. A. Ullah, W. Ahmad, A. U. Rahman, N. Khan, A. Iqbal, **B. A. Bacha** 2019 “Effects of a chiral atomic medium on the manipulation of light birefringence and lateral Goos–Hänchen shifts via Kerr nonlinearity and local field effects” *Journal of Optics* 21(1):015505. IF: 2.516
- 38) S. Ali, M. Idrees, **Bakth Amin Bacha**, Arif Ullah, Muhammad Haneef 2020 “Efficient two-dimensional atom localization in a five-level conductive chiral atomic medium via birefringence beam absorption spectrum” *Commun. Theor. Phys.* 73: 015102. IF: 1.968
- 39) S. M. ArIF: **Bakth Amin Bacha**, U. Wahid, A Ullah, M. Haneef 2020 “Tunnelling based birefringent phase sensitivity through dynamic chiral medium” *Physica Scripta*, 96: 035106. IF: 2.487
- 40) S. M. ArIF: **B. A. Bacha**, U. Wahid, M. Haneef, S. A. Ullah 2020 “Tunable subluminal to superluminal propagation via spatio-temporal solitons by application of Laguerre fields intensities” *Physics Letters A* 127041. IF: 2.654
- 41) S. Ullah, U. Wahid, **B. A. Bacha**, S. A. Ullah, Z. Ullah 2020 “Particle microscopy by surface plasmon polariton waves at the interface of dielectric and silver silica nano-composites” *Physica Scripta* 96: 015104. IF: 2.487
- 42) M. Idrees, M. Ullah, **B. A. Bacha**, L. G. Wang 2020 “High-resolution two-dimensional atomic microscopy in a tripod-type four-level atomic medium via standing wave fields” *Laser Physics* 30(11):115402. IF: 1. 333

- 43) M. Idrees, H. Kalsoom, **B. A. Bacha**, S. A. Ullah, L. G. Wang 2020 “Continuum and undefined hole burning regions via pulse propagation in a four-level Doppler broadened atomic system” *European Physical Journal Plus* 135(9):698. IF: 3.228
- 44) F. Ullah, U. Wahid, **B. A. Bacha**, S. A. Ullah 2020 “Surface plasmon hole burning via doppler broadening” *Laser Physics* 30(9):095203. IF: 1.333
- 45) S. Khan, S. Muhammad, **B. A. Bacha**, U. Wahid 2020 “Birefringent lateral Goos-Hänchen effect through chiral medium” *Physica Scripta* 95: 095102. IF: 2.487
- 46) M. Qayum, **B. A. Bacha**, H. Khan, J. Akbar, M. Haneef 2020 “Implications of Compton scattering and inverse Doppler effect on the manipulation of Goos-Hänchen shifts” *Optik* 219:165306. IF: 2.443
- 47) M. I. Khan, M. Idrees, **B. A. Bacha**, H. Khan, S. A. Ullah, M. Haneef 2020 “Optical soliton through induced cesium doppler broadening medium” *Physica Scripta* 95(8). IF: 2.487
- 48) L. Khan, **B. A. Bacha**, U. Wahid, S. A. Ullah 2020 “Birefringence of rotary photon drags through induced chiral atomic medium” *Physica Scripta* 95(7). IF: 2.487
- 49) M. Khan, M. Idrees, **B. A. Bacha**, S. A. Ullah, M. Haneef 2021 “Tunnelling based birefringent rotary photon dragging through induced chiral medium” *Physica Scripta*, 96, 055101 IF: 2.487
- 50) M. Idrees, H. Kalsoom, **B. A. Bacha**, A. Ullah, L. G. Wang 2021 “Spatial dependent probe transmission based high-precision two-dimensional atomic localization” *Commun. Theor. Phys.* 73, 045102 IF: 1.968
- 51) A. Ali, **B. A. Bacha**, U. Wahid, A. Ur Rehman 2021 “Gaussian Pulse Propagation via Bright and Dark Solitons through Atomic Medium”, *Journal of Russian Laser Research*, 117-125 IF: 0.607
- 52) A. Khan, A. Ullah, M. S. A. Jabbar, **Bakth Amin Bacha** 2021 “Fizeau's light birefringence dragging effect in a moving chiral medium” *European Physical Journal Plus* 136, 88 IF: 3.228
- 53) W. Ahmad, **B. A. Bacha**, U. Wahid, A. Ullah, M. Haneef 2021 “Distortion-free conductivity-dependent temporal cloak based on tunnelling chiral medium” *European Physical Journal Plus*, **136**(3), 275 IF: 3.228

- 54) G. Z. Khan, I. Ashraf, A. Ullah, **B. A. Bacha** 2021 “Plasmon's Fizeau-dragging effect at the interface of atomic and nano-composites media” *Int. J. Quantum Chem.* e26655. IF: 1.747
- 55) M. Idrees, M. Ullah, **B. A. Bacha**, A. Ullah, L. G. Wang 2021 “High-Resolution Two-Dimensional Atomic Localization Via Tunable Surface Plasmon Polaritons” *Plasmonics*, IF: 2.404
- 56) A. Iqbal, A. Khan, **B. A. Bacha**, M. A. Ahmad, M. J. Amjad, A. Ur Rehman 2021, Conductivity-dependent absorption-free, gain-assisted superluminal propagation and rotary photon drag, *Optical Materials* 115, 111047 IF: 3.08
- 57) M. Khan, A. Ur Rehman, **B. A. Bacha**, U. Wahid, A. Ullah 2021 “Gaussian Pulse Distortion in a Nonlinear Induced Kerr Atomic Medium” *Brazilian J. of Phys.* 51, 1265–1272 IF: 1.44
- 58) S, Ali, A. Ur Rehman, **B. A. Bacha**, A. Ullah, I. Ul Haq 2021 “Coherent control of complex conductivity in a conductive atomic medium” *Laser Phys.* 31, 076001 IF: 1.333
- 59) W. Ahmad, **B. A. Bacha**, U. Wahid, A. Ullah, M. Haneef 2021 “Phase sensitive birefringent diffraction based on conductive tunneling chiral medium” *Optik*, 242, 167357 IF: 2.443
- 60) H. Nawab, M. Usman, M. Idrees, **B. A. Bacha**, 2021 “Rotary penetration drag of surface plasmon polaritons at atomic and nano-composite media” *Opt Quant Electron* 53, 311 IF: 1.842
- 61) N. Ullah, M. Idrees, M. Ullah, **B. A. Bacha**, M. Haneef 2021 “High resolution two-dimensional atomic microscopy via superposition of three probe coherences and three standing wave fields” *Opt Quant Electron* 53, 312 IF: 1.842
- 62) A. I. Bashir, A. Khan, **B. A. Bacha**, M. A. Ahmad, M. J. Amjad, A. Ur Rehman 2021, Corrigendum: Conductivity-dependent absorption-free, gain-assisted superluminal propagation and rotary photon drag [*Optical Materials* 115 (2021) 111047], *Optical Materials* 115, 111047 IF: 3.08
- 63) A. Ahmad, **B. A. Bacha**, Aleem Ullah, U. Wahid, M. Haneef 2021 “Dynamics of bright optical solitons through a coherent atomic medium” *Physica Scripta*, 96, 035106 (2021). IF: 2.487

- 64) G. Z. Khan, I. Ashraf, A. Ullah, **B. A. Bacha** 2021 “Phase and velocity sensitivity of surface plasmon polaritons at the interface of atomic and nano-composites media” *Phys. Scr.* **96** 105105. IF: 2.487
- 65) W. Ali, J. Ahmad, M. Haneef, **B. A. Bacha**, H. Khan, A. Abid, B. Khan, A. Dashan 2021, “Distortion management of the pulse without and in the presence of Compton scattering in a three level atomic configuration” *Eur. Phys. J. Plus*, 136, 747. IF: 3.228
- 66) M. Idrees, M. Ullah, **B. A. Bacha**, A. Ullah, L. G. Wang 2021 “Ultra-high resolution two-dimensional atomic localization via tunable surface plasmon polaritons” *Optics and Las. Tech.* 140:107021 IF: 3.867
- 67) H. Ahmad, A. Ur Rehman, U. Wahid, **B. A. Bacha**, S. M. Ramay 2021 “Space-Time Cloaking through a Chiral Atomic Medium” *Opt. Quant. Electron.* IF: 1.842
Status: accepted
- 68) A. Ullah, S. Muhammad, A. Ullah, U. Wahid, B. A. Bacha 2021 “Localized Intensity of Tiny Goos-Hänchen Shift in Reflection and Transmission” *Brazilian J. of Phys.* IF: 1.44
Status: accepted

PAPERS UNDER REVIEW:

- Currently 20 research papers are under review in different peer-reviewed journals

Ph.D student co-supervised:

- Mr Mian Syed Abdul Jabbar (seven publications)

Current Ph.D student co-supervisor:

- 1) Akhtar Zaman HU Manshera
- 2) Bakhtawar HU Manshera.
- 3) Hamid Iqbal dept: of Physics UOM

MPHIL Students supervised:

- 1) Mr. Muhammad Yasin, department of Physics (UOM)
- 2) Mr. Numan Ahmad, department of Physics (UOM)
- 3) Mr. Ayub Khan department of Physics (UOM)
- 4) Mr. Saboor khan department of Physics (UOM)
- 5) Mr. Kaleem Ullah department of Physics (UOM)

M.Phil Students co-supervised:

- 1) Mr. Habib Ur Rahman UOM Chakdara (one publication on rotation of polarization states in a spinning slow fast medium)
- 2) Mr. Hizbullah UOM Chakdara (one publication on superposition of standing wave fields via atom microscopy)
- 3) Mr. Anwar Ali Khan UOM Chakdara (one publication-on Kerr effect and spectral Hole burning)
- 4) Mr. M. Jalaluddin UOM Chakdara (two articles are under review)
- 5) Mr. Arshad Ali UOM Chakdara (one publication on surface plasmon polaritons)
- 6) Mr. Rafiuddin UOM Chakdara (one article under review)
- 7) Mr. Syed Fazal Ghani UOM Chakdara (one article under review)
- 8) Mr. Fizan Ahmad HU Manshera(one article under review)
- 9) Mr. Muhammad Atif HU Manshera(one article under review)
- 10) Mr. Roidar Khan HU Manshera(four article under review)
- 11) Mr. Maqsood Iqbal HU Manshera(four article under review)
- 12) Mr. Zakir Khan HU Manshera(two article under review)
- 13) Mr. Muhammad Qayum HU Manshera
- 14) Mr. Asif Gul HU Manshera
- 15) Mr. Sartaj Khan Abdul wali khan (UM)
- 16) Mr. Arif khan COMSATS University Islamabad Lahore Campus.
- 17) Mr. Husain Ahmad Rifa international university Islamabad.
- 18) Mr. Saeed Alam khan university of Punjab
- 19) Mr. Ashfaq Ahmad HU Manshera (current co-supervision)
- 20) Mr. M. Ijaz khan HU Manshera
- 21) Mr. Atta ullah HU Manshera
- 22) Mohib ullah university of Peshawar
- 23) Mr. M. Irshad HU Manshera
- 24) Mr. Fazlullah HU Manshera

- 25) Mr.Sajid khan HU Manshera
- 26) Mr.Naemullah HU Manshera
- 27) Mr.Waqar Ahmad HU Manshera:
- 28) Mr.arif Khan HU Manshera
- 29) Mr. Afsar Ali Ahmad Rifa internation university Islamabad.
- 30) Mr. Mubasir Khan Ahmad Rifa internation university Islamabad.
- 31) Nisar Ahmad Dept: Physics (AWKUM)
- 32) Asad ullah (Dept: Physics (AWKUM)
- 33) Kamran khan Dept: Physics (AWKUM)
- 34) Kamran khan Dept: Physics (HU)
- 35) Dawood Khan Dept: Physics (HU);
- 36) Hayat Khan Dept: Physics (HU);
- 37) Mr. Alyaseen department of Physics (UOM)
- 38) Mr. Abdur Rahman department of Physics (UOM)
- 39) Mr. Ahmadulhaq department of Physics (UOM).
- 40) Mr. Ijazulhaq department of Physics (UOM).
- 41) Mr. Latif Khan department of Physics (UOM)

Current MPHIL Students Co-supervisor:

- 1) Mr. Sohail Ahmad department of Physics (UOM)
- 2)).Muhammad Usman department of Physics (AWKUM)
- 3) Jamil Ahmad department of Physics (HU Mansehra)
- 4) Muhammad Junaid department of Physics (HU Mansehra)
- 5) Shams Uddin department of Physics (HU Mansehra)
- 6) Maghfir Ullah department of Physics (HU Mansehra)
- 7) Mussanif Shah department of Physics (HU Mansehra)
- 8) Shahid Ali Khan department of Physics (HU Mansehra)
- 9) Ishaq Khan department of Physics (HU Mansehra)
- 10) Wahid Ali department of Physics (HU Mansehra)
- 11) Zahid ullah department of Physics (HU Mansehra)
- 12) Akhlaq Ahmad department of Physics (HU Mansehra)
- 13) ABDUR rahman department of Physics (HU Mansehra)
- 14) Zain Ullah department of Physics (HU Mansehra)

BS/MSc Students supervised:

- 1) Mr. Nazir Ahmad department of Physics (UOM)
- 2) Mr. Wajid Ali department of Physics (UOM)
- 3) Mr. Sana Ullah department of Physics (UOM)
- 4) Mr. Waqar Ahmad department of Physics (UOM)
- 5) Mr. Roidar Khan department of Physics (UOM)
- 6) Mr. Maqsood Khan department of Physics (UOM)
- 7) Mr. Akhlaq Ahmad department of Physics (UOM)
- 8) Mr. Sohail Ahmad department of Physics (UOM)
- 9) Mr. Zakir Ullah department of Physics (UOM)
- 10) Mr. Saqib Ullah department of Physics (UOM)
- 11) Mr. Zahoor department of Physics (UOM)
- 12) Mr. Ikram Ullah department of Physics (UOM)
- 13) Mr. Raheel Jan department of Physics (UOM)
- 14) Mr. Raza Ullah department of Physics (UOM)
- 15) Mekail khan department of Physics (UOM)
- 16) Aziz u-din department of Physics (UOM)
- 17) Amjad Ali department of Physics (UOM)
- 18) Khurshaid Ali department of Physics (UOM)
- 19) Maghfirullah department of Physics (UOM)
- 20) Muhammad Usman department of Physics (UOM)
- 21) Haq Nawab department of Physics (UOM)
- 22) Wahid Ali department of Physics (UOM)
- 23) Jamil Ahmad department of Physics (UOM)
- 24) Zahidullah department of Physics (UOM)
- 25) Salman Khan department of Physics (UOM)
- 26) Shahidullah department of Physics (UOM)
- 27) Imaduddin department of Physics (UOM)
- 28) Abbas Nasir department of Physics (UOM)
- 29) Wajid Ali department of Physics (UOM)
- 30) Mr. Ihsan ullah department of Physics (UOM)
- 31) Mr. Latif department of Physics (UOM)

- 32) Mr.Zia ullah department of Physics (UOM)
- 33) Mr. Muhammad Faizan department of Physics (UOM)
- 34) Mr. Inzimamul Haq department of Physics (UOM)
- 35) Mr. Fazle Qayyum department of Physics (UOM)
- 36) Mr. Farhan Amir department of Physics (UOM)
- 37) Mr.Ayaz Ahmad department of Physics (UOM)
- 38) Mr.Jameel Badsha department of Physics (UOM)
- 39) Mis Bilqees department of Physics (UOM)
- 40) Mr. Sohail Ahmad department of Physics (UOM)
- 41) Asif Khan department of Physics (UOM)
- 42) Darwaish Khan department of Physics (UOM)
- 43) Saeed Ullah department of Physics (UOM)
- 44) Najam Uddin department of Physics (UOM)
- 45) Adnan Khan department of Physics (UOM)
- 46) Haroon Khan department of Physics (UOM).
- 47) Ishaq Khan department of Physics (UOM).
- 48) Farman ullah department of physics (UOM)
- 49) Sohrab khan department of physics (UOM)
- 50) Fazal Amin department of physics (UOM)
- 51) Tariq khan department of physics (UOM)
- 52) Aness khan department of physics (UOM)
- 53) Naeem khan department of physics (UOM)
- 54) Abu saeed department of physics (UOM)
- 55) Imran ullah department of physics (UOM)
- 56) Khalil khan department of physics (UOM)
- 57) Younas khan department of physics (UOM)
- 58) Rahim khan department of physics (UOM)
- 59) Imran khan Govt degree college temargara

Current BS/MSc Students supervision:

- 1) Rahim khan department of physics (UOM)

Evaluation of MPhil Thesis:

- 1) Mr. Rukhsar Ali Khan, department of Physics, Hazara University Mansehra KP Pakistan.
- 2) Mr. Adeel Ahmad, department of Physics, Hazara University Mansehra KP Pakistan.
- 3) Mrs. Khuzaiwa Saeed, department of Physics, Hazara University Mansehra KP Pakistan.
- 4) Mr. Anwar Hayat, department of Physics, Hazara University Mansehra KP Pakistan.

- 5) Mr. Iqtidar Ahmad, department of Physics, Hazara University Mansehra KP Pakistan.
- 6) Mr. Fakhr-e-alam, department of Physics, Hazara University Mansehra KP Pakistan.
- 7) Ms. Sundus Munir, department of Physics, Hazara University Mansehra KP Pakistan.
- 8) Mr. Khalil Ullah, department of Physics, Hazara University Mansehra KP Pakistan
- 9) Ms. Asma shamraz department of Physics, Hazara University Mansehra KP Pakistan
- 10) Ms. Asmat Rehman department of Physics, Hazara University Mansehra KP Pakistan.
- 11) Ms. Mahnoor Ali department of Physics, Hazara University Mansehra KP Pakistan.
- 12) Mr. Zafer Ali department of Physics, Hazara University Mansehra KP Pakistan
- 13) Mr. Umair Khan department of Physics, Hazara University Mansehra KP Pakistan.
- 14) Mr. Tahir Nawaz department of Physics, Hazara University Mansehra KP Pakistan.
- 15) Ms. Benish Bibi department of Physics, Hazara University Mansehra KP Pakistan.
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Working as reviewer:

- Laser Physics Journals (Laser Physics and Laser Physics Letters)
- Material Research Express Journal (MREJ)
- European Physical Journal D (EPJD)
- Journal of Nanotechnology (JN).
- Journal of Optics.
- Journal of Physica Scripta.
- Journal of Optics.

Conferences/workshops:

- Three days international conference on “Materials Modeling and Simulations” at UOM (2013)
- One day conference on “International Year of Light” at UOM organized by the department of Physics in collaboration with National Institute of Lasers and Optronics (NILOP) (2015)
- Three days national conference on “International Year of Light” at NILOP Islamabad (2015)
- First National Conference on “Advances in Physics” at UOM (2017)
- One week workshop on “English for Academic Purposes” arranged by HEC of Pakistan at UOM, (2017)

Project approved:

- Coherent and incoherent control of temporal cloak via nonlinearity” approved in October, 2015 for Rs.190,900 by HEC of Pakistan under national research program.

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