



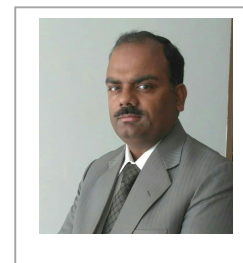
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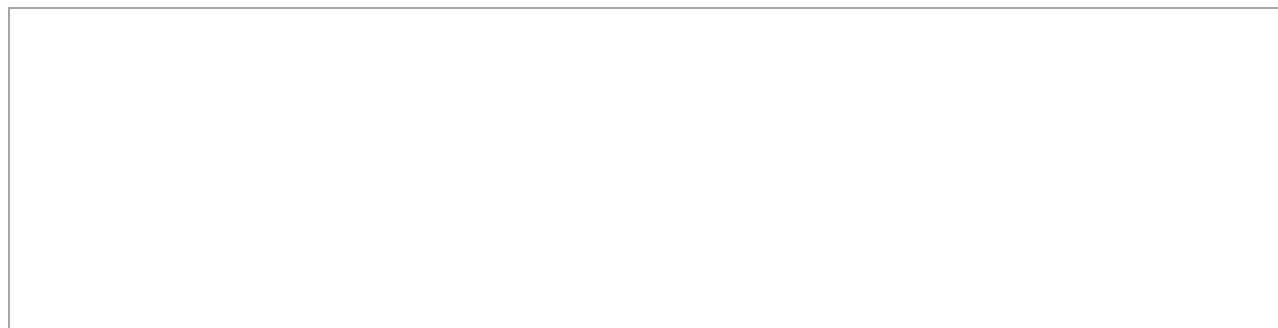
UAN: 081- 111-717-111



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<b>Designation</b>	Professor		
<b>Department</b>	Physics		
<b>Faculty</b>	Basic Sciences		
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<b>Qualification</b>			
<b>Year</b>	<b>Degree/Certificate</b>	<b>Name of the Institute/ University</b>	<b>Field of study</b>
2016	PhD	The Islamia University of Bahawalpur	Physics (Magnetic Materials)
2004	MS/ MPhil	The Islamia University of Bahawalpur	Physics (Medical Physics)
2000	Graduation	The Islamia University of Bahawalpur	Physics (Digital Electronics)

<b>Work Experience</b>				
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1	2021	To date	Balochistan University of Information Technology, Engineering and Management Sciences (BUIITEMS) Quetta-Pakistan	Professor
2	2019	To date	Balochistan University of Information Technology, Engineering and Management Sciences (BUIITEMS) Quetta-Pakistan	Associate Professor
3	2009	2019	Balochistan University of Information Technology, Engineering and Management Sciences (BUIITEMS) Quetta-Pakistan	Assistant Professor
4	2006	2009	Balochistan University of Information Technology, Engineering and Management Sciences (BUIITEMS) Quetta-Pakistan	Lecturer

5	2004	2006	Govt. College of Technology (GCT) Bahawalpur-Pakistan	Lecturer
6	2002	2004	Bahawalpur Study Center (Rays College), Allama Iqbal Open University Islamabad-Pakistan Total Teaching Experience = 18 years, among almost 14 years at university level.	Lecturer
<b>Area of specialization</b>			Material Science	
<b>Expertise</b>			Medical Physics, Magnetic materials, Nanotechnology, dielectrics ceramics	
<b>HEC Approved supervisor</b>			Yes	
<b>If Yes, provide HEC URL</b>			<a href="https://www.hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx">https://www.hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx</a> ID#19184	
<b>Research grants/ Projects</b>				
<b>Additional Information</b>				
<p>I did my PhD work on the nano-ferrite materials and its analysis. I submitted my thesis entitled “Impacts of Rare Earth Cations on the Properties of Lithium Based Spinel Ferrites”. Where substitution of rare earth metals praseodymium and neodymium on lithium ferrites was carried out. The impacts of these rare earth metals on thermal, structural, magnetic and dielectric properties were studied. The possible application of these ferrites for high frequency devices and electromagnetic application were studied</p> <p>I joined Balochistan University of Information Technology, Engineering and Management Sciences (BUIITEMS) as lecture in September 2006. This university is newly chartered by government of Pakistan. Here establishment of lab is necessary for B.S. Physics program and applied physics for engineering classes like Petroleum &amp; Gas engineering, Electronics engineering, Computer engineering, Textile engineering. I prepare a <b>PC-1</b> report for this purpose to HEC through BUIITEMS. This grant of about <b>39 Million</b> was approved and lab equipments have been purchased under my supervision. The syllabus was not yet decided; I conducted the 1<sup>st</sup> Board of study to finalize the syllabus as coordinator. Also conduct practical in the subjects relating to physics. The whole work was under my control. My research work was paused due to these activities.</p> <p>Being the <b>Faculty Member</b> and working as a Lecturer in the Basic Sciences Department college of technology Bahawalpur, Pakistan my responsibilities are:</p> <ul style="list-style-type: none"> <li>• To develop and prepare syllabus and lesson plans based on course outlines for Diploma level to Graduation level classes.</li> <li>• To establish a system of student evaluation and assessment to ensure high standard of academic performance and credibility for Mechanical, Electrical, Electronics, Civil, Telecommunication, Computer, and Auto &amp; Forming Technologies.</li> <li>• To conduct lectures according to the specified schedules.</li> <li>• To plan, develop and implement practical activities to support the academic and curriculum development.</li> </ul> <p>Working as a <b>Member</b> of the Graduate Studies, all the Technologies in college of Technology Pakistan, my responsibilities were :</p> <ul style="list-style-type: none"> <li>• To assess the graduate (Mechanical production, civil communication, Electrical and Electronics) students.</li> <li>• To help Mechanical Department, in organizing the curriculum.</li> </ul> <p>In addition to teach computer science and information technology to graduation level students at the study center Allama Iqbal Open University, my additional responsibilities were to develop and prepare lesson plans of the subjects like, Basic Electronics, Electricity and Magnetism, and Digital Logic Design.</p>				



Publications in HEC Recognized journals (International)						DOI / URL
S. No	Paper title	Journal	Category	Vol. No.	Year	DOI / URL
1.	Conformal Coating of Cobalt-Nickel Layered Double Hydroxides Nanoflakes on Carbon Fibers for High-Performance Electrochemical Energy Storage Supercapacitor Devices	Electrochimica Acta (Impact factor = 5.38)	W	135	May 14, 2014	10.1016/j.electacta.2014.05.020
2.	Characterization of InGaN by Means of I–V Measurements of Respective Light-Emitting Diode (LED) by DLTS	Arabian Journal for Science and Engineering (Impact factor = 1.52)	W	40 (1)	May 20, 2014	10.1007/s13369-014-1483-y
3.	La <sub>1-x</sub> Eu <sub>x</sub> FeO <sub>3</sub> Nanoparticles: Fabrication Via Micro-Emulsion Route for High Frequency Devices Applications	Journal of Alloys and Compounds (Impact factor = 4.18)	W	629	Jan 06, 2015	10.1016/j.jallcom.2014.12.212
4.	Structural and Electromagnetic Behavior Evaluation of Nd-Doped Lithium–Cobalt Nanocrystals for Recording Media Applications	Journal of Alloys and Compounds (Impact factor = 4.18)	W	639	Mar 27, 2015	10.1016/j.jallcom.2015.03.170
5.	Rare Earth Tb <sup>3+</sup> Doped LaFeO <sub>3</sub> Nanoparticles: New Materials for High Frequency Devices Fabrication	Ceramics International (Impact factor = 3.43)	W	41	April 01, 2015	10.1016/j.ceramint.2015.03.235
6.	Impacts of Neodymium on Structural, Spectral and Dielectric Properties of LiNi <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> Nanocrystalline Ferrites Fabricated Via Micro-Emulsion Technique	Physica E (Impact factor = 3.18)	W	73	Jun 09, 2015	10.1016/j.physe.2015.06.001
7.	Structural, Morphological and Electrical Properties of Heat Treated CaHPO <sub>4</sub> Biomaterials	Optoelectronics and Advanced Materials (Impact factor = 0.45)	W	9 (9)	Sep 09, 2015	<a href="https://oam-rc.inoe.ro/articles/structural-morphological-and-electrical-properties-of-heat-treated-cahpo4-biomaterials/">https://oam-rc.inoe.ro/articles/structural-morphological-and-electrical-properties-of-heat-treated-cahpo4-biomaterials/</a>
8.	Structural and Electromagnetic Studies of Ni <sub>0.7</sub> Zn <sub>0.3</sub> Ho <sub>2x</sub> Fe <sub>2-2x</sub> O <sub>4</sub> Ferrites	Ceramics International (Impact factor = 3.43)	W	42	Jun 08, 2016	10.1016/j.ceramint.2016.06.054
9.	Enhanced Dielectric and Photocatalytic Behaviour of Dy-Co Co-Doped Multiferroic BiFeO <sub>3</sub>	Digest Journal of Nanomaterials and Biostructures	W	11 (4)	Nov 03, 2016	<a href="http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-">http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-</a>

	Nanoparticles	(Impact factor = 0.61)				djnb/400-volume-11-number-4-october-december-2016
10.	The Effect Of Rare Earth Dy <sup>3+</sup> ions on Structural, Dielectric and Electrical Behavior Of Ni <sub>0.4</sub> Co <sub>0.6</sub> Dy <sub>y</sub> Fe <sub>2-y</sub> O <sub>4</sub> Nano-FerritesSynthesized By Wet Chemical Approach	Digest Journal of Nanomaterials and Biostructures (Impact factor = 0.61)	W	12 (1)	Feb 18, 2017	<a href="http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/405-volume-12-number-1-january-march-2017">http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/405-volume-12-number-1-january-march-2017</a>
11.	Morphological and magnetic behavior of neodymium doped LiNi <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanocrystalline ferrites preparedvia micro-emulsion technique	Digest Journal of Nanomaterials and Biostructures (Impact factor = 0.61)	W	12 (1)	Mar 24, 2017	<a href="http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/405-volume-12-number-1-january-march-2017">http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/405-volume-12-number-1-january-march-2017</a>
12.	Redistribution of carbon from silicon by electron beam melting	Digest Journal of Nanomaterials and Biostructures (Impact factor = 0.61)	W	12 (3)	Aug 08, 2017	<a href="http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/430-volume-12-number-3-july-september-2017">http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/430-volume-12-number-3-july-september-2017</a>
13.	New LiNi <sub>0.5</sub> Pr <sub>x</sub> Fe <sub>2-x</sub> O <sub>4</sub> Nanocrystallites: Synthesis Via Low Cost Route for Fabrication of Smart Advanced Technological Devices	Ceramics International (Impact factor = 3.43)	W	43	July 31, 2017	10.1016/j.ceramint.2017.07.228
14.	Evaluation and comparison of dc resistivity of NiZr <sub>x</sub> Co <sub>x</sub> Fe <sub>2-2x</sub> O <sub>4</sub> , Ni <sub>0.5</sub> Sn <sub>0.5</sub> Co <sub>x</sub> Mn <sub>x</sub> Fe <sub>2-2x</sub> O <sub>4</sub> , Mg <sub>1-x</sub> Ca <sub>x</sub> Ni <sub>y</sub> Fe <sub>2-y</sub> O <sub>4</sub> and Mg <sub>1-x</sub> Ni <sub>x</sub> Co <sub>y</sub> Fe <sub>2-y</sub> O <sub>4</sub> nanocrytalline materials	Materials Research Express(Impact factor = 1.45)	W	4	Nov 2, 2017	10.1088/2053-1591/aa9413
15.	New LiCo <sub>0.5</sub> Pr <sub>x</sub> Fe <sub>2-x</sub> O <sub>4</sub> nanoferrites: Prepared via low cost technique for high density storage application	Ceramics International (Impact factor = 3.43)	W	44	Oct 19, 2017	10.1016/j.ceramint.2017.10.126
16.	Improvement of solar cell performance after oxygen removal by electron beam melting	Silicon (Impact factor = 1.2)	W	10 (5)	July 7, 2018	10.1007/s12633-017-9694-y
17.	Removal of SiC from Silicon After Electron Beam Melting Technique on Industrial Scale	Silicon (Impact factor = 1.2)	W	11	April 05, 2018	10.1007/s12633-018-9859-3
18.	Structural, Morphological and optical investigations of silver nanoparticles synthesized by sol-gel auto combustion Method	Digest Journal of Nanomaterials and Biostructures (Impact factor = 0.61)	W	13 (3)	July 24, 2018	<a href="http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/458-volume-13-number-3-july-september-2018">http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/458-volume-13-number-3-july-september-2018</a>

19.	Intensity modulated radiation therapy: A review of current practice and future outlooks	Journal of Radiation Research and Applied Sciences ESCI (Impact factor = 2.10)	W	11	July 25, 2018	10.1016/j.jrras.2018.07.006
20.	Thermogravimetric analysis, optical and dielectric properties of newly developed $\text{LiNi}_{0.5}\text{Pr}_x\text{Fe}_{2-x}\text{O}_4$ nanocrystalline ferrites	Digest Journal of Nanomaterials and Biostructures (Impact factor = 0.61)	W	13 (3)	Sep 08, 2018	<a href="http://www.chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/458-volume-13-number-3-july-september-2018">http://www.chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/458-volume-13-number-3-july-september-2018</a>
21.	A Simulation Model Approach to Analysis of High Breakdown Voltage in Normally-Off 4h-SiC Vertical Junction Field Effect Transistor	Journal of Ovonic Research (Impact factor = 0.70)	W	14 (6)	Dec 01, 2018	<a href="http://www.chalcogen.ro/index.php/journals/journal-of-ovonic-research/12-jor/469-volume-14-number-6-november-december-2018">http://www.chalcogen.ro/index.php/journals/journal-of-ovonic-research/12-jor/469-volume-14-number-6-november-december-2018</a>
22.	Mechanism of the Effect of Electron Beam Melting on the Distribution of Oxygen, Nitrogen, and Carbon in Silicon	International Journal of Materials Research (Impact factor = 0.74)	W	110	May 20, 2019	10.3139/146.111736
23.	Structural, magnetic and dielectric properties of Ni-Co doped $\text{BiFeO}_3$ multiferroics synthesized via micro-emulsion route	Physica B: Condensed Matter (Impact factor = 1.87)	W	552	Sep 24, 2018	10.1016/j.physb.2018.09.030
24.	Structural, optical and magnetic elucidation of co-doping of $\text{Nd}^{3+}$ and $\text{Pr}^{3+}$ on lithium nanoferrites and its technological application	Results in Physics (Impact factor = 3.04)	W	12	Jan 10, 2019	10.1016/j.rinp.2019.01.018
25.	Effects of bismuth on structural and dielectric properties of cobalt-cadmium spinel ferrites fabricated via micro-emulsion route	Chinese Physics B (Impact factor = 1.6)	W	28 (8)	July 25, 2019	10.1088/1674-1056/28/8/088701
26.	Characterization of Zirconium Substituted Cobalt Zinc Ferrites Synthesized via Co-Precipitation Technique	Digest Journal of Nanomaterials and Biostructures (Impact factor = 0.61)	W	14 (3)	July 25, 2019	<a href="http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/487-volume-14-number-3-july-september-2019">http://chalcogen.ro/index.php/journals/digest-journal-of-nanomaterials-and-biostructures/8-djnb/487-volume-14-number-3-july-september-2019</a>
27.	Dielectric, Impedance and modulus spectroscopic studies of $\text{Co}_{0.3}\text{Cd}_{0.7}\text{Zn}_{1.5x}\text{Fe}_{2-x}\text{O}_4$ nanoparticles	Applied Physics A (Impact factor = 1.78)	W	125 (10)	Sep 27, 2019	10.1007/s00339-019-3029-3
28.	Design And Analysis of Normally-on 4H-SiC Vertical Junction Field Effect Transistor (VJFET) Using Sentaurus TCAD Simulation	Journal of Ovonic Research (Impact factor = 0.7)	W	15 (5)	Oct 15, 2019	<a href="http://chalcogen.ro/index.php/journals/journal-of-ovonic-research/12-jor/492-volume-15-number-5-september-october-2019">http://chalcogen.ro/index.php/journals/journal-of-ovonic-research/12-jor/492-volume-15-number-5-september-october-2019</a>
29.	Impact of Aluminum Substitution on the Structural and Dielectric Properties	Optical and Quantum Electronics,	W	52 (190)	Mar 17, 2020	10.1007/s11082-020-

	of Ni–Cu Spinel Ferrite Nanoparticles Synthesized Via Sol–Gel Route	(Impact factor =1. 45)				02304-w
30.	Synthesis of $\text{CuFe}_{2-x}\text{Er}_x\text{O}_4$ Nanoparticles and Their Magnetic, Structural and Dielectric Properties	Physica B: Condensed Matter, (Impact factor =1. 87)	W	588	April 10, 2020	10.1016/j.physb.2020.412176
31.	Impact of Bi–Cr substitution on the structural, spectral, dielectric and magnetic properties of Y-type hexaferrites	Ceramics International (Impact factor = 3.43)	W	46	July 9, 2020	10.1016/j.ceramint.2020.07.018
32.	Dielectric, impedance, and modulus spectroscopic studies of lanthanum-doped nickel spinel ferrites $\text{NiLa}_x\text{Fe}_{2-x}\text{O}_4$ nanoparticles	Journal of Sol-Gel Science and Technology (Impact factor = 2.0083)	W	1 (10)	July 31, 2020	10.1007/s10971-020-05359-z
33.	Properties of $\text{Al}^{3+}$ substituted nickel ferrite ( $\text{NiAl}_x\text{Fe}_{2-x}\text{O}_4$ ) nanoparticles synthesised using wet sol-gel auto-combustion	Journal of Sol-Gel Science and Technology (Impact factor = 2.0083)	W	1(12)	November 10, 2020	<a href="https://doi.org/10.1007/s10971-020-05426-5">https://doi.org/10.1007/s10971-020-05426-5</a>
34.	Structural, Dielectric, Impedance, and Electric Modulus Properties of $\text{Cu}^{2+}$ -Substituted $\text{Cu}_x\text{Mn}_{1-x}\text{Fe}_2\text{O}_4$ Spinel Ferrites Nanoparticles	Journal of Materials Science: Materials in Electronics (Impact factor = 2.2)	W	32	February 6, 2021	<a href="https://doi.org/10.1007/s10854-020-05036-5">https://doi.org/10.1007/s10854-020-05036-5</a>
35.	Structural, Morphological Study of Neodymium Substituted Cobalt Zinc Ferrites Nanoparticles Synthesized via Co-Precipitation Method	Journal of Ovonic Research (Impact factor = 0.7)	W	17(1)	February 23, 2021	<a href="https://chalcogen.ro/89_ShifaMS.pdf">https://chalcogen.ro/89_ShifaMS.pdf</a>
36.	Aluminum Substitution in Ni-Co Based Spinel Ferrite Nanoparticles by Sol–Gel Auto-Combustion Method	Journal of Electronic Materials, IF=1.77	W	1 (10)	March 16, 2021	<a href="https://doi.org/10.1007/s11664-021-08819-6">https://doi.org/10.1007/s11664-021-08819-6</a>
37.	Optimisation of User-Selectable Volumetric Modulated Arc Therapy (Vmat) Planning Parameters: Vmat Arcs for Prostate and Head-and-Neck Cancers	The Journal of the Pakistan Medical Association (Impact factor = 0.78)	W	71	April, 2021	<a href="https://doi.org/10.47391/JPMA.710">https://doi.org/10.47391/JPMA.710</a>
38.	Effects of Heat Treatment on the Structural, Spectral, Morphological, Dielectric, and Magnetic Properties of $\text{Ba}_{0.5}\text{Sr}_{0.1}\text{Zn}_{0.4}\text{Fe}_{12}\text{O}_{19}$ Ferrite	Ceramics International (Impact factor = 3.43)	W	47	May 27, 2021	<a href="https://doi.org/10.1016/j.ceramint.2021.05.207">https://doi.org/10.1016/j.ceramint.2021.05.207</a>
39.	Tuning the dielectric and structural properties of erbium substitution on cobalt ferrites	Journal of Ovonic Research (Impact factor = 0.7)	W	17(4)	August 10, 2021	<a href="https://chalcogen.ro/383_AsgarHM_NHK.pdf">https://chalcogen.ro/383_AsgarHM_NHK.pdf</a>
40.	Structural and Magnetic Properties of Co–Cd–Zn Spinel Ferrite Nanoparticles Synthesized through Micro-Emulsion Method	Optical and Quantum Electronics, (Impact factor =1. 45)	W	53(677)	November 2 <sup>nd</sup> , 2021	<a href="https://doi.org/10.1007/s11082-021-03299-8">https://doi.org/10.1007/s11082-021-03299-8</a>

Publications in HEC Recognized journals (National)					
1.	Characterization of InGaN by means of C-V measurement of respective Light Emitting Diode	Journal of applied and Emerging Sciences	X		2011

	(LED) by DLTS				
2.	Characterization of SiC by means of C-V measurement of respective schottky diode by DLTS	Journal of applied and Emerging Sciences	X		2012
3.	Characterization of ZnO by means of C-V measurement of respective schottky diode by DLTS	Journal of applied and Emerging Sciences	X		2013
4.	Characterization of ZnO by mean of I-V measurement of respective schottky diode by DLTS	Journal of applied and Emerging Sciences	X	4 (2)	Dec, 2013
5.	A Comparative Study of Crop Classification by Using Radiometric and Photographic Data	Sindh Univ. Res. Jour	X	47 (2)	2015
6.	Study of Current-voltage Characteristic Using Deep Level Transient Spectroscopy Technique of Schottky Diode Made of SiC	Journal of applied & Emerging Sciences	X	6 (2)	2016
7.	Synthesis and Characterization of Spintronics Material $Hg_{0.8}Cd_{0.2}Te$ by Solid State Reaction	Journal of applied & Emerging Sciences	X	7 (2)	2017

<b>Conference and Trainings</b>				
S. No	Title of Paper/Training	Name of Conference	National/ International	Date
1	Teaching Skill and Management	One month pedagogy training, GTTC, Faisalabad	National	August, 2004
2	Monte Carlo Radiation Transport and Associated needs for medical applications	The Abdul Salam International Centre of Theoretical Physics (ICTP), Italy, Organized by International Atomic energy Agency, Vienna	International	October 2011
3	How to write a research proposal	HEC, Islamabad	National	September, 2011
4	Comparison of IMRT vs IMPT	11th Shaukat Khanum Cancer Symposium Costs of Cure, Lahore, Pakistan.	National	November 2012
5	Synthesis of Starch Coated Iron Oxide Nanoparticles by Co-precipitation, Pakistan.	International Scientific Spring 2013, Hosted by ICTP, Italy and Organized by National Centre of Physics, Islamabad	International	March 2013
6	Alternate energy technology	International Scientific Spring 2013, Hosted by ICTP, Italy and Organized by National Centre of Physics, Islamabad	International	March 2013

7	Impacts of rare earth cation on the structure, dielectric and magnetic properties of ferrites', Presented poster in conference	nanomagnetism 2015 at NCP, Islamabad.	International	February 2015
8	Comparison of rare earth cation doping for structural and magnetic properties	2nd Conference on Frontiers of Nanoscience and Nanotechnology, PINSTECH, Islamabad	National	September 2015.
9	Intellectual property, patent and trade mark	BUIITEMS, Quetta	National	April, 2017.
10	University Teaching	BUIITEMS, Quetta	National	March, 2017.
11	PhD supervisor capacity building	HEC, Islamabad	National	April, 2019

### List of projects completed

1. In year 2007 to 2009, I prepared and executed a project of the worth about **39 Million** for establishment of labs in department off physics through HEC.
2. In year 2016-2017, I completed a research project entitled “Structural, electrical and magnetic studies of Ni substitution on the lithium based spinel ferrites” of the worth 0.2 million through ORIC, BUIITEMS as PI.
3. In year 2016-2017, I completed another project entitled “Investigation of Lithium ferrites and impacts of cobalt doping on structural and electrical properties” of worth 0.2 Million through ORIC, BUIITEMS as co-PI.
4. In year 2018-2019, I completed a research project entitled “Electrical, dielectric and magnetic studies of metal doped M-type Hexa-ferrite nano-materials” of the worth 0.2 million through ORIC, BUIITEMS as PI.
5. In year 2018-2019, I completed another project entitled “Dose enhancement effect of metal nanoparticles on MAGICA polymer gel in radiation therapy” of worth 0.2 Million through ORIC, BUIITEMS as co-PI.

### List of students supervised

- MS Physics students:



Completed: 14

On going: 4

- PhD Physics students:

On going: 2