



# BUITEMS

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<b>Name</b>		Engr. Dr. Fahim Ahmed Ibutoto		
<b>Designation</b>		Assistant Professor		
<b>Department</b>		Mining Engineering		
<b>Faculty</b>		Engineering and Architecture		
<b>E-mail address</b>		Official	<a href="mailto:Fahim.Ahmed@buitms.edu.pk">Fahim.Ahmed@buitms.edu.pk</a>	
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<b>Telephone Number</b>		Office Extension		
		Mobile	+92 332 2623850	
<b>Qualification</b>				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
2019	PhD	Sungkyunkwan University, South Korea.	Mechanical/Mining Engineering	
2015	MS/ Mphil	Sungkyunkwan University, South Korea.	Mechanical/Mining Engineering	
2009	Graduation	Mehran University Engineering & Technology, Jamshoro, Sindh, Pakistan	Mining Engineering	
<b>Publications in HEC Recognized journals</b>				
S. No	Title of Paper	Name of Journal	National/ International	Publication date
1	Determination of durability and strength of sandstone and shale of United Mineral Coal Company Sor-Range	<i>Journal of Mountain Area Research</i>	National	Accepted
2	Determine the optimum blending ratio of Sor-range coal with Indonesian coal for maximum utilization of Indigenous coal in Cement Industries	<i>Journal of Applied &amp; Emerging Sciences (JAES)</i>	National	Accepted
3	Multiple (TEES)-Criteria-Based Sustainable Planning Approach for Mesh-Configured Distribution Mechanisms across Multiple Load Growth Horizons	Energies	International	2021
4	Treatment of Palm oil mill effluent using activated biochar obtained from the residue of the gasifier	<i>Journal of Applied &amp; Emerging Sciences (JAES)</i>	National	2021
5	Creep lifetime prediction of 9Cr-1Mo (grade T91) steel via small punch creep	<i>Materials at High</i>	International	2020

	tests and hierarchical multiscale analysis	<i>Temperatures</i>		
6	Direct equivalent stress investigation model of STS 316L Steel by small punch creep testing	<i>Balochistan Journal of Engineering &amp; Applied Sciences (BJEAS)</i>	National	2020
7	Energy consumption and optimization of oven drying of <i>Chlorella Vulgris</i> using Response Surface Methodology	<i>Balochistan Journal of Engineering &amp; Applied Sciences (BJEAS)</i>	National	2020
8	Inconel 617 alloy creep life augmentation by graphene transfer coating	<i>Journal of Mechanical Science and Technology</i>	International	2019
9	Enhancement of Metal Creep Life by Graphene Coating	<i>Journal of Mechanical Science and Technology</i>	International	2019
10	Small Punch Test and Simulation of HR3C Steel",	<i>Journal of Mechanical Science and Technology</i>	International	2018
11	A Direct Methodology for Small Punch Creep Test	Experimental Mechanics	International	2016
<b>Conference Papers/Posters Presented</b>				
S. No	Title of Paper	Name of Conference	National/ International	Date
1	Creep Lifetime Prediction of New and Service-Exposed 9Cr-1Mo (Grade T91) Steel Boiler Tubes by Using Hierarchical Multiscale Analysis and Creep Cavitation Model	APCOM 2019	International	December 2019
2	Enhancement of Metal Creep Life by Graphene Coating	Sungkyunkwan Mechanical Engineering Research Poster Competition	International	January 2019
3	Creep-fatigue Correlation Analysis of Grade 91 Steel Using Finite Element Method	The KSME Annual Spring Conference	International	April 2018
4	A Direct Investigation of Monkman-Grant Relationship for Small Punch Creep	The KSME Annual Spring Conference	International	April 2015
5	Development of a Creep Life Time Expectation Method Based on Small Punch Creep Test.	The Korean Institute of Metals and	International	April 2014

			Materials Spring Conference	
<b>Research Projects</b>				
S. No	Name of Project		Organization	Date
1	An Advanced Creep-Fatigue Damage Evaluation Method Based on Interrupted Creep Test.		MSCB Lab, Sungkyunkwan University, South Korea	March 2018-August 2019
2	Next Generation Lifetime Assessment of High Temperature Materials in Nuclear Power Plants Using Small Punch Test		MSCB Lab, Sungkyunkwan University, South Korea	May 2019 - August 2019
<b>Conferences Attended</b>				
S. No	Name of Conferences		National/ International	Date
1	Conference on Computational Mechanics (KSCM)		International	July 2017
2	12th World Congress on Computational Mechanics (WCCM XII) and the 6th Asia-Pacific Congress on Computational Mechanics (APCOM VI)		International	July 2016
3	2015 Symposium on Multiscale & Multiphysics Mechanics, Korea Multi-Scale Mechanics (KMSM)		International	December 2015
<b>Awards and Recognitions</b>				
S. No	Name of Conferences		National/ International	Date
1	Conference on Computational Mechanics (KSCM)		International	July 2017
2	12th World Congress on Computational Mechanics (WCCM XII) and the 6th Asia-Pacific Congress on Computational Mechanics (APCOM VI)		International	July 2016
3	2015 Symposium on Multiscale & Multiphysics Mechanics, Korea Multi-Scale Mechanics (KMSM)		International	December 2015
<b>Work Experience</b>				
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1	2021	To date	BUIITEMS Quetta, Pakistan	Assistant Professor
2	2012	2021	BUIITEMS Quetta, Pakistan	Lecturer
3	2009	2010	M. Jamil & Company (Pvt) Ltd. Coal Raising Contractors for Lakhra Coal Development Company (LCDC) Limited, Sindh, Pakistan	Trainee Engineer
4	2006	2006	Lakhra Coal Development Company (LCDC) Limited, Sindh, Pakistan	Internee
<b>Area of specialization</b>			Creep, Fatigue, Rock Mechanics, Graphene Coatings, Material Testing, FEM Simulation, Small Punch Creep Testing	
<b>Research Interest</b>				

<b>Future Research Plans</b>	Virtual Reality in Mining Engineering and Mining Sector
<b>HEC Approved supervisor</b>	Yes
<b>If Yes, provide HEC URL</b>	<a href="https://hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx">https://hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx</a>
<b>Research grants/ Projects</b>	Projects Under Preparation

#### **Additional Information**

#### **[TEACHING EXPERIENCE]**

##### **Graduate**

Advanced Rock Mechanics, Mine Environmental Controls in Mining.

##### **Undergraduate**

Mine Ventilation, Rock Mechanics, Explosive Engineering, Applied Geology, Fundamentals of Mining Engineering, Surveying, Engineering Mechanics, Technical Report Writing & Presentation Skills

#### **[AWARDS & RECOGNITIONS / MEMBERSHIPS]**

**21 April 2021: First HEC Approved PhD Supervisor in Balochistan (Mining Engineering),**  
“Higher Education Commission, Pakistan” 2021.

**28 January 2019: Best Research Poster Award,**  
School of Mechanical Engineering, Sungkyunkwan University, South Korea.

**August 2013: M.S. Leading to PhD Scholarship Award,**  
“Higher Education Commission, Pakistan” 2013.

##### **2008: Member**

Pakistan Engineering Council (Mining/1234)  
Society for Mining, Metallurgy and Exploration.

#### **[TRAININGS/SEMINARS]**

**June 2021: Continuing Professional Development Program,**  
“Massive Connectivity in 5G+ Networks for Smart Cities”, Live Webinar, Pakistan Engineering Council HQ, Islamabad, Pakistan.

**April 2021: Continuing Professional Development Program Short Training Course,**  
“Development of Technical Team & Execution of Project (P-II)”, Webinar, Pakistan Engineering Council HQ, Islamabad, Pakistan.

**January 2013: Four Weeks Training Course,**  
“Professional Competency Enhancement Training Program”, BUIITEMS, Quetta, Balochistan, Pakistan.

**January 2012: Short Training Course,**

“Ore Body Modelling & Computer Aided Mine Design”, 12 January 2012, Mehran University Engineering & Technology, Jamshoro, Sindh, Pakistan and Hecettepe University Ankara, Turkey, at MUET Jamshoro.

**January 2006: Internship Training,**

Lakhra Coal Development Company (LCDC), Sindh, Pakistan.

**[OTHER SKILL]**

- **Computer**

Abaqus 3.10, Ansys workbench, Origin Pro 8.0, Image Pro. 6.0, Slide V-5.0 Slope Stability Software, Microsoft Office, Windows, Mac OS Big Sur.

**[SOCIAL]**

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- <https://www.researchgate.net/profile/Fahim-Ibupoto>