



BUITEMS

Quality & Excellence in Education

ISO 9001-2008 certified

www.buitms.edu.pk

UAN: 081- 111-717-111



Name		Engr. Dr. Muhammad Amin		
Designation		Incharge Chairperson/Assistant Professor		
Department		Chemical Engineering		
Faculty		Engineering and Architecture		
E-mail address		Official	muhammad.amin@buitms.edu.pk	
		Personal	enr_amin63@yahoo.com	
Telephone Number		Office Extension	081-111-717-111 (422)	
		Mobile	0346-7320083	
Qualification				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
2019	PhD	Prince of Songkla University, Thailand	Chemical Engineering	
2015	MSc	University of Moratuwa, Srilanka	Chemical Engineering	
2010	BS	BUITEMS	Chemical Engineering	
Patents				
S. No	Title	Organization	No	Year
1	Process of biochar production from extracted microalgae.	PSU	1903001414	2019
Publications in HEC Recognized journals				
S. No	Title of Paper	Name of Journal	National/ International	Publication date
1	Enhanced lipid recovery from marine <i>Chlorella</i> sp. by ultrasonication with an integrated process approach for wet and dry biomass".	BioEnergy Research (IF=3.0)	International	2019
2	Application of extracted marine <i>Chlorella</i> sp. residue for bio-oil production as the biomass feedstock and microwave absorber	Energy conv. And management (IF=7.18)	International	2019
3	Biochar from extracted marine <i>Chlorella</i> sp. residue for high efficiency adsorption with ultrasonication to remove Cr(VI), Zn(II) and Ni(II)	Bioresource Technology (IF=6.66)	International	2019
4	Extraction and Quantification of Chlorophyll from Microalgae <i>Chlorella</i> sp.	IOP material science	International	2019

5	Bioenergy production from waste mango seed shell by thermo-chemical conversion and its importance for mango fruit processing industry	JAES	National	2019
6	Removal of Zinc(II) from municipal wastewater using chemically modified activated carbon developed from Rice husk and Kikar charcoal	JAES	National	2019
7	Performance analysis of updraft gasifier	IEEE	International	2016
8	Production of biodiesel through catalytic transesterification of Jatropha oil	JAES	National	2016
9	A mathematical model for pyrolysis of biomass	IEEE	International	2015
10	Thermogravimetric Analysis (TGA) of Lignite Coal, Tree Leaves and Their blend	JAES	National	2013

Conferences/Workshops/Seminars

S. No	Title of paper	Organizer	National/ International	Publication date
1	Extraction and Quantification of Chlorophyll from Microalgae <i>Chlorella</i> sp.	ICAET 2018	International	2018
2	Effect of coagulant extracted from Almond nutshell (<i>Prunus Amygdalus</i>) on synthetic turbid water	SAITM, Srilanka	International	2016
3	Effect of particle size in desulphurization of coal	SAITM, Srilanka	International	2016
4	Comparative study of Sugarcane bagasse & Low grade coal fly ash (Adsorbent) for effluent treatment. [BUIEMS Case Study]	ICET	National	2016
5	Comparative study of energy potential of mango pit as biomass with coconut shell, Ginisyria and mixture in laboratory scale developed updraft gasifier	SAITM, Srilanka	International	2015
6	Performance analysis of updraft gasifier	IESL, Srilanka	International	2015

Projects, Posters competition and Awards

1	3-M presentation	PSU (1 st Place)	International	2019
2	Green extraction process	PSU	International	2018
3	A project on Green BUIEMS-Green Quetta	Innovation Summit, UOB	National	2016
4	Treatment of waste water by adsorption and recycling for gardening (A case study of BUIEMS)	ICET 2016 (2 nd Position)	National	2016
5	Gold Medalist	BUIEMS	National	2010

Work Experience				
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1	April 2011	Dec 2012	AIEC (UOS affiliated)	Lecturer/Assistant Director
2	Jan 2013	July 2016	BUIITEMS	Lecturer
3	July 2016	Present	BUIITEMS	Assistant Professor
Area of specialization			Algal biomass and bioenergy, algal waste recycling for recovery of energetic and non-energetic products and their applications, Chlorophylls	
Research Interest			Bioenergy, Modelling, waste management, materials	
Future Research Plans			Scope of Algal bio-industry in Pakistan	
HEC Approved supervisor			In process	
If Yes, provide HEC URL				
Research grants/ Projects			<ol style="list-style-type: none"> 1. Waste water treatment by using low and medium grade coal fly ash in combustion with post treatment 2. Study on Existing Gas Appliances and Suggestions on Energy Conservation (Under Process) 3. Research on Portable Garbage Bio Gas Digester Plant and its Prototype Development (Under process) 4. Algal biomass cultivation in wastewater for recovery of energetic and non-energetic valuable products-A clean, green approach with energy and environmental aspects (Submitted in NRPU). 	
Additional Information				