


Brief CV

Name	Mst. Sadia Mahzabin	中文名		
Gender	Female	Title (Pro./Dr.)	Dr.	
Position (President...)	Assistant professor	Country	Malaysia	
University/ Department	UTAR			
Personal Website				
Research Area	Concrete and composite materials and structures			

Brief introduction of your research experience:

I have been working with composite materials since 2009. My PhD research was based on composite materials (Optimization of Kelampayan Wood Fibre Cement Composite Properties for Application as Load Bearing Wall Panel). In this research i examined by X-ray diffraction (XRD) and X-ray fluorescence spectroscopy (XRF) for different moisture conditions and with or without chemical additives.

In UTAR i worked with treated kenaf fibre in foamed composite. I have complitted UTARRF research on Structural performance of Wood Fibre Reinforced Foamed Composite(WFRFC) in 2017. Along with, we determined Mechanical Properties and Durability of Chemically Treated Kenaf Fibre Reinforced Cement Composite (KFRCC) Incorporating Water Treatment Sludge in our FRGS government fund.

Currently I am doing research on kenaf fibre and along with synthetic fibre reinforced foamed composite. Our research will incorporate the fibre treatment using NaOH in conjunction with experimental approach in effort of understanding the composite. Fibre surface preliminary test, fibre sources, Chemical treatment, Fibre tensile test, micro structure Scanning Electron Microscopy, flexural test, moisture absorption of the kenaf fibre will be done to maximize strength and durability of fibre. The second part focuses on the durability properties which consist of two tests which are water absorption, drying shrinkage will be

determined by accelerated aging conditions using elevated temperature ranging from 200°C to 800°C. Scanning Electron microscopy will be used to investigate the microstructure of the composite before and after aging.

*******All the columns need to be filled in.**