

CURCULUM VITAE



A. **PERSONAL DETAILS**

1. Name : Balqis Binti Md Yunus
2. Date of Birth : 27-11-1982
3. Sex : Female
4. Office Address : Faculty of Civil Engineering, University Teknologi Mara, 40450 Shah Alam, Selangor, Malaysia
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B. **BRIEF PERSONAL HISTORY**

Balqis Binti Md Yunus was graduated her bachelor degree from the Faculty of Civil Engineering at Universiti Teknologi MARA (UiTM), Malaysia and was involved in internship program at KAIST, Daejeon, South Korea during her final semester of M.Sc. program. Following this, she served at UiTM for more than 4 years before pursuing her study in PhD at TU Delft, the Netherlands. Currently, she is a lecturer at Faculty of Civil Engineering, UiTM Shah Alam. Her research is focus on self-healing concrete, bio-concrete and concrete durability.

C. **ACADEMIC QUALIFICATION**

No.	Name of Institution	Degree/Qualification	Date awarded
1.	Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia.	MSc in Civil Engineering (Structures)	2008
2.	Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia.	BEng (Hons.) Civil Engineering	2006
3.	Universiti Teknologi MARA, Arau, Perlis, Malaysia	Diploma in Civil Engineering	2003

D. **RESEARCH WORKS**

Research Grants:

No.	Title	Date
1.	Using Dried Sewage Sludge as the Primary Material for the Production of Lightweight Aggregates (Main researcher)	2010
2.	Lateral-Torsional Buckling Resistance of Castellated Steel Beams with Copes and Partial Endplates (Main researcher)	2010
3.	Behavior of Axially Discontinuous Thin-Walled Steel Frames (Co-researcher)	2012

Research Project:

1. Involved actively in RILEM TC 246-TDC project between the years of 2013 – 2016. The major aim of TC 246-TDC is to develop a standard of test methods to characterize the behavior of concrete under combined actions such as mechanical load and chloride penetration. The validity of the recommended test methods shall be checked by comparative test series carried out in a number of selected laboratories in different countries. rilem.cn.

E. **PUBLICATIONS**

1. Manuscript/Dissertation:

MSc. - Parametric Study into Lateral Torsional Buckling of Castellated Beams – 2008.

2. Proceeding/conference papers:

- a) Bonding Strength of Foamed Concrete Filled Steel Tubes (Co-author) - Proceeding of MSTC 2010.
- b) Chemical and Physical Characterizations of Dried and Pulverized of Sewage Sludge as Lightweight Aggregates (First author) – Proceeding of ISESEE 2011.
- c) Bacterial concrete: Precipitation and Influence on Chloride Transport and Carbonation – Poster presentation in Structural Synergy Symposium - Delft (September, 2013).
- d) Chloride Penetration into Concrete with Compressive Load-Induced Cracks (First author) - International Conference on Construction

Materials and Structures, ICCMATS – Johannesburg, South Africa (November 2014) .

- e) Chloride Transport under Compressive Load in Bacteria-based Self-healing Concrete (First author) – International Conference on Self-Healing Materials, ICHSM – Durham, North Carolina (June, 2015).

3. Journal paper:

- a) Behaviour of Masonry Wall Constructed using Interlocking Soil Cement Bricks (Co-author) – World Academy of Science, Engineering and Technology (2011).
- b) Test methods to determine durability of concrete under combined environmental actions and mechanical load: final report of RILEM TC 246-TDC. Materials and Structures, 2017. 50(2), p.123. (Co-author).
- c) Recommendation of RILEM TC 246-TDC: test methods to determine durability of concrete under combined environmental actions and mechanical load. Materials and Structures, 2017. 50(2), p.155. (Co-author).

F. CURRENT RESEARCH AREA OF INTEREST

1. Self-Healing Materials
2. Bacteria-based self-healing agent
3. Concrete Durability
4. Green Technology
5. Sustainable Materials