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Construction of variance balanced designs using incidence matrix

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Received : 24.12.2019; Revised : 17.02.2020; Accepted : 24.02.2020 **ABSTRACT:** A method of constructing variance balanced designs with unequal block sizes is proposed using incidence matrix, where no other design required. It is the extension to the method given by Rajarathinam *et al.* (2014). Further optimality of the constructed design has been checked and found it to be universally optimal.

KEY WORDS: Balanced incomplete block design, Variance balanced design, Universally optimal design

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