

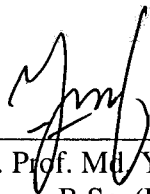
**IDENTIFY DRYING KINETIC PARAMETER OF *FICUS DELTOIDEA* AND  
*CENTELA ASIATICA* USING MODIFIED PAGE MODEL AND TWO TERM  
MODEL**

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**Final Year Project Report Submitted in  
Partial Fulfilment of the Requirements for the  
Degree of Bachelor of Science (Hons.) Physics  
in the Faculty of Applied Sciences  
Universiti Teknologi MARA**

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This Final Year Project Report entitled “**IDENTIFY DRYING KINETIC PARAMETER OF *FICUS DELTOIDEA* AND *CENTELA ASIATICA* USING MODIFIED PAGE MODEL AND TWO TERM MODEL**” was submitted by Nurul Syuhada Binti Roslan, in partial fulfillment of the requirements for the Degree of Bachelor of Science (Hons.) Physics, in the Faculty of Applied Science, and was approved by



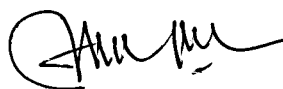
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## ABSTRACT

### **IDENTIFY DRYING KINETIC PARAMETER OF *FICUS DELTOIDEA* AND *CENTELA ASIATICA* USING MODIFIED PAGE MODEL AND TWO TERM MODEL**

In this study, identify drying kinetic parameter of *Ficus deltoidea* and *Centella asiatica* have been investigated using a convective drying. *Ficus deltoidea* and *Centella asiatica* were determining at different temperatures for 40°C, 50°C and 60°C with constant air velocity at 1.5 m/s. Sample weight was measured by using tray dryer. Drying kinetic exhibit only has one falling rate period. Air temperature affected the drying curves decreasing the drying time of samples. The usefulness of two different mathematical models to stimulate and during kinetic of *Ficus deltoidea* and *Centella asiatica* are Two Term model and Modified Page model solve by the separation of variable methods. The models were compared by the Minimum Sum Square Error (MSSE). A had the lowest value of MSSE for *Ficus deltoidea* is Modified Page model at temperature 50°C and for *Centella asiatica* has the lowest value of Two term model at temperature 60°C.