

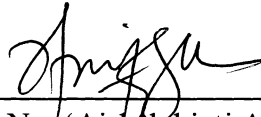
**BIOMASS COMPOSITION OF *Azolla* sp. GROWTH IN
PADDY FIELD**

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

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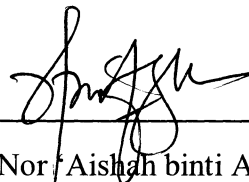
This Final Year Project Report entitled “**Biomass Composition of *Azolla* sp. Growth in Paddy Field**” was submitted by Izzah Nadhirah Binti Mohamed Zain, in partial fulfillment of the requirements for the Degree of Bachelor of Science (Hons.) Biology, in the Faculty of Applied Sciences, and was approved by



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ABSTRACT

BIOMASS COMPOSITION OF *Azolla* sp. GROWTH IN PADDY FIELD

Azolla sp. was used by the farmers to improve the growth performance of paddy and also used as a substitute feeding materials for livestock. Three types of water sources (Kuala Pilah paddy field water, Tanjung Karang drain water and distilled water) each was used to study the growth performance of *Azolla* sp. and this experiment was conducted from February until March 2014. Growth performance of *Azolla* sp. in Tanjung Karang drain water show the highest result followed by Kuala Pilah paddy field water and distilled water as a control was the lowest. When *Azolla* sp. added with fertilizer (cow dung), the growth performance continue to increase until the end of experiment. The application of different amount of propagule which is 0.2 g of *Azolla* sp. showed the highest percentage of growth performance with 88%. *Azolla* sp. was applied in Kg. Ibol, Kuala Pilah paddy field and this experiment was conducted from March until May 2014. Growth performance of paddy plant in terms of height of paddy leaves and number of paddy leaves produces when applied with 5 g and 10 g of *Azolla* sp. higher compared with when no *Azolla* sp. added. Based on Tukey test conducted, the results indicates that there is significantly different between the control group which no *Azolla* sp. applied compared to application of 5 g and 10 g of this aquatic fern. Results obtained from this study shows that *Azolla* sp. can improve growth performance of paddy in terms of their height and number of paddy leaves produced. Further research about *Azolla* sp. can be done in order for this aquatic fern can be used to increase the paddy production.