

**PENGARUH MODEL PEMBELAJARAN *PROBLEM BASED LEARNING*  
(PBL) TERHADAP PENGETAHUAN METAKOGNITIF  
PADA MATERI VIRUS DI KELAS X MIA  
SMA SWASTA IMELDA MEDAN  
T.P 2019/2020**

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**ABSTRAK**

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *Problem Based Learning* terhadap pengetahuan metakognitif pada materi virus kelas X MIA SMA Swasta Imelda Medan T.P. 2019/2020. Penelitian ini adalah penelitian eksperimen. Populasi yang digunakan dalam penelitian ini adalah seluruh kelas X MIA SMA Swasta Imelda Medan T.P. 2019/2020 dan sampel penelitian diambil secara *total sampling*. Penelitian ini dilakukan pada dua kelas yaitu X MIA 1 yang diberi perlakuan dengan model pembelajaran *Problem Based Learning* dan X MIA 2 yang diberi perlakuan model pembelajaran langsung. Jenis penelitian adalah *quasi eksperimen* dengan desain *One Group Pretest dan Posttest Control Design*. Hasil yang diperoleh adalah ada pengaruh yang signifikan dari model pembelajaran *Problem Based Learning*. Hasil *pretest* nilai rata-rata kelas eksperimen adalah 14,02 dan nilai rata-rata kelas kontrol 13,95. Kedua sampel berdistribusi normal dan homogen. Uji hipotesis  $t_{hitung}=0,0614$ ,  $t_{tabel}=2,0018$  ( $t_{hitung} < t_{tabel}$ ) menyatakan kemampuan awal pengetahuan metakognitif kedua sampel sama. Hasil *posttest* nilai rata-rata kelas eksperimen 48,11 dan nilai rata-rata kelas kontrol 40,03. Uji hipotesis  $t_{hitung}=3,862$ ,  $t_{tabel}=2,0018$  ( $t_{hitung} > t_{tabel}$ ). Hal ini menunjukkan adanya pengaruh yang signifikan pengetahuan metakognitif masing-masing sampel akibat pengaruh model pembelajaran *Problem Based Learning* pada materi virus di kelas X semester I SMA Swasta Imelda Medan T.P. 2019/2020.

Kata kunci : *Model pembelajaran Problem Based Learning, Virus, Pengetahuan Metakognitif*



**THE INFLUENCE OF PROBLEM BASED LEARNING (PBL) MODEL  
ON METACOGNITIVE KNOWLEDGE IN VIRUS MATERIAL  
IN CLASS X MIA SMA SWASTA IMELDA MEDAN  
T.P 2019/2020**

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**ABSTRACT**

This study aimed to find out the influence of Problem Based Learning model on metacognitive knowledge on virus material in class X MIA SMA Swasta Imelda MEDAN T.P. 2019/2020. This study is experimental research. The population used in this study is all students of class X MIA SMA Swasta Imelda MEDAN T.P. 2019/2020 and samples were taken total sampling. This study was conducted in 2 classes, namely X MIA 1 treated by using Problem Based Learning model and X MIA 2 treated by using direct learning model. The type of research is quasi experimental with One Group Pretest and Posttest Control Design. The results obtained there is the significant influence of Problem Based Learning. The pretest results of the experimental class average value 14,02 and the average value of the control class 13,95. Both samples were normally distributed and homogeneous. Hypothesis t count = 0,0614, t table = 2,0018 (tcount < t table) showed that the initial metacognitive knowledge both samples are the same. The posttest results of the experimental class average value 48,11 and the average value of the control class 40,03. Hypothesis test t count = 3,862, t table = 2,0018 (t count > t table). This shows the difference in metacognitive knowledge of each sample due to the significant influence of Problem Based Learning on the virus material in the first semester of class X MIA SMA Swasta Imelda Medan T.P. 2019/2020.

*Keywords: Problem Based Learning Model, Virus, Metacognitive Knowledge*