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Assessment of Physics practicals using a software-embedded and improvisation based scientifically efficient system

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Abstract content
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Traditionally Physics practicals done at most universities are evaluated on the basis of a laboratory report which is bedeviled by a considerable amount of subjectivity. One of the drawbacks of laboratory report writing is that the learner needs to be language proficient in presenting the report in terms of interpretation and discussions of results which could ultimately affect the marks awarded for the experiment. This article elaborates on how the assessment of the practicals could be made scientifically efficient using software-excel rubric evaluation system, thereby avoiding report writing requiring language proficiency. The merit of the software based report evaluation is that it is precise with figures, graphs, drawings and calculations. The efficacy of the system is that large volumes of practicals are evaluated in the shortest possible time thereby allowing students to do more practicals per semester.

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Primary author: Dr REDDY, Leelakrishna (University of Johannesburg)

Co-authors: Mr OELOFSE, Jan (Member paid-up); Dr NAIR, Padmanabhan (University of Johannesburg); Dr RAMAILA, Sam (University of Johannesburg)

Presenter: Dr REDDY, Leelakrishna (University of Johannesburg)

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