DBT Star Hands on Training

Department of Environmental Science

St. Edmund's College

Program: Determination of Germination Percentage and Relative Germination Rate of

Seeds (Under DBT STAR College Scheme)

Date: 30.08.2022

Time: 2pm

Venue: Department of Environmental Science Laboratory

Teacher: Ms. Larihun Jeengaph

No. of students: 14

Method: Germination growth test

The Department of Environmental Science under the DBT Star College Scheme conducted

practicals on the Determination of Germination Percentage and Relative Germination Rate of

Seeds for the B.Sc. (H) 3rd semester students.

Hand-on practice on the determination of Germination Percentage and Relative Germination

Rate of Seeds were provided. Students were taught to create metallic stress of 3CdSO₄.8H₂O/

FeCl₃.6H₂O/ ZnSO₄.7H₂O on seeds. The heavy metal toxicity was observed on the germination

of seeds and radicle growth. Demonstration was also made clearly for students on how to avoid

contamination of seeds and how to handle metal solution carefully.

Outcome of the Programme

Students were able to observe and compare the germination in control condition and in

metallic stress.

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The results and observations were discussed based on the environmental significance of on Determination of Germination Percentage and Relative Germination Rate of Seeds