**CET324 Problem Based Learning Session**

**Introduction to Problem Based Learning (PBL)**

Topics Covered in Today’s Workshop

1. Introduction to the concept and principles of PBL
2. Student Pre Perception Activity
3. PBL Activity – Growth of Ransomware

In 2016 it has been reported from various sources that more than a third of all businesses worldwide have been attacked by customized ransomware. The indications are that this growth is going to continue. The increase in the amount of malware and ransomware poses a potentially significant risk to organisations – risks to data, information and reputation.

The problem to explore is how can you defend against malware and ransomware ?

It normally takes hours to detect new malware and days to contain and respond, and if this malware is ransomware that is too late.

1. Student identification of problems
2. Shaping the Curriculum
3. Student Post Perception Activity

PBL Workshop Sheet

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Pre PBL Perceptions

This questionnaire is being used to get a feel for your confidence in using problem based learning as a technique. I would be very grateful if you would complete before we start the Malware exercise on Friday. There will be a follow up post PBL activity questionnaire. To that end I would be grateful if you would put your name on the form – this will only be used to match up the longitudinal questionnaires and will be held in total confidence. The data forms will be destroyed after the data is collated and no record of your name will be held on the statistical analysis

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Not Confident | | | Reasonably Confident | Confident | | | Very Confident |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Problem solving |  |  |  |  |  |  |  |  |
| Skills development |  |  |  |  |  |  |  |  |
| Group work |  |  |  |  |  |  |  |  |
| Independent Learning |  |  |  |  |  |  |  |  |
| Making judgements |  |  |  |  |  |  |  |  |
| Application of knowledge |  |  |  |  |  |  |  |  |
| PBL |  |  |  |  |  |  |  |  |

Any comments you would like to include please do so below –

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Post PBL Perceptions

This questionnaire is being used to understand how your confidence in using PBL as a technique has developed after your first exercise. The data forms will be destroyed after the data is collated and no record of your name will be held on the statistical analysis

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Not Confident | | | Reasonably Confident | Confident | | | Very Confident |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Problem solving |  |  |  |  |  |  |  |  |
| Skills development |  |  |  |  |  |  |  |  |
| Group work |  |  |  |  |  |  |  |  |
| Independent Learning |  |  |  |  |  |  |  |  |
| Making judgements |  |  |  |  |  |  |  |  |
| Application of knowledge |  |  |  |  |  |  |  |  |
| PBL |  |  |  |  |  |  |  |  |

What did you enjoy most about using PBL ?

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What did you learn as a result of the PBL activities

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What would suggest as a change for future PBL activities ?

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