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**LEYTON SIXTH FORM COLLEGE – CENTRE NO: 13409**

**DEPARTMENT: COMPUTING AND IT**

**COURSE: BTEC L3 EXTENDED DIPLOMA IN IT - ACADEMIC YEAR 2013-2014**

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| **Student Name: Student ID: Teacher:** Mr E. Nganga and Mrs Niles-Brathwaite | | | | | | | |
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| **Unit No:** 24  **Unit Name:** Controlling Systems Using IT  **Internal Verifier:** Mr A Tahir **Date Verified:** 03/03/2014 | | | | | | | |
|  | | | | | | | |
| **Assignment No:** 2 **Assignment Title:** Introduction to Control Systems (Part Two)  **Assignment Given Out:** 06/05/2014 **Assignment Submission Date:** 23/05/2014  **Learning Outcome:** LO2 - Know how data is represented in control systems  LO3 – Understand control loop operations | | | | | | | |
| **Task** | **Unit** | **Grading Criteria**  **Reference** | **Grading Criteria** | **Review Date** | **Grade Awarded** | **Date Achieved** | **Page No#** |
| 1 | 24 | P4 | describe how data can be represented in control systems | 16/05/2014 |  |  |  |
| 2 | 24 | P5 | explain the stages of control loop operations | 16/05/2014 |  |  |  |
| 3 | 24 | M3 | explain the principles and uses of proportional control | 16/05/2014 |  |  |  |
| **Assignment Rules:**  Any work submitted after the deadline may not be marked. | | | | | | | |

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| **Student declaration**  I declare that all of the work submitted for this assignment is my own work or, in the case of group work, the work of myself and the other members of the group in which l have worked has not been copied from any source. I understand that if any part of the work submitted for this assignment is found to be plagiarised, none of the work submitted will be allowed to count towards the assessment of the assignment.  **Student Signature: Date:**  **Assessor Signature: Date**: |

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**Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**ASSESSMENT FEEDBACK FORM**

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| **Unit Number** |  | **Unit Title** | |  | | | |
| **Assignment Title** |  | | | | **Resubmission Date** |  | |
| **Assessors Feedback (**please be specific, addressing the assessment and grading criteria**)** | | | | | | | |
| **Assessment Criteria to be addressed** | **Feedback from Assessor** | | | | | | **Achieved Yes/No** |
|  |  | | | | | |  |
| **Literacy Skills assessed for development** | | | | | | | |
| **Literacy issue assessed (please circle)** | | | **Comment for development** | | | | |
| **Structure, meaning, punctuation, spelling, referencing, bibliography, plagiarism or specify** | | |  | | | | |

**Signed: Student ………………………………………… Date: …………………….……..**

**Signed: (Assessor) ……………………………………… Date: …………………………..**

**IV Signature: ……………………………………………… Date: ……………………………**

**Scenario**

You have been employed by Dynamic Control Systems (DCS) to produce information and training materials for various aspects of controlling systems using IT. You will be required to undertake various tasks in producing the material, and will be expected to work in a variety of formats.

The materials you are to produce are as follows:

**Task 1**

* Report 1 - produce a report that describes how data can be represented in control systems. You must describe coding data, logical operators and integer, fixed point and floating point numbers. **(P4).**

**Task 2**

* Poster 1 – an explanation of the stages of control loop operation. This poster should be directed at people who have no detailed knowledge of control systems. It should be in A3 format and should include diagrams, photographs or other illustrations to make the text more accessible and add to the reader’s understanding of the text. **(P5)**

**Task 3**

* Report 1 – An explanation of the principles and uses of proportional control. **(M3)**