

## DETAILS OF THE ORDER AND REQUIRED REFERENCE LIST

Word Count **825 words**.

At the close of induction your line manager has asked you to prepare a report on student performance on the three tests (Data is attached to the order as Excel file). Using the data provided create a series of charts and graphs that summarises the student results.

Your line manager is also interested in how data can be used more effectively in the future and has asked you to prepare a strategy for data collection and analysis for this particular course. Your report should:

- Identify the quantitative and qualitative data you think should be collected before, during and after the course. Examples of this could include: qualifications at the point of entry, age, attendance at class, interaction with Moodle, student satisfaction surveys, progression to employment etc.
- Making reference to appropriate literature, briefly explain why you believe this data is important.
- Discuss how you could use this data to help plan future teaching and learning. You may, for example, seek to establish if there is a correlation between student results and attendance at English Language support sessions or to compare the results of school leavers and those returning to study.
- Making reference to appropriate literature briefly explain how the collection and analysis of data can inform and support both the course and student learning in the future.
- Remember to use Harvard referencing

### Learning objectives to be assessed:

1. Demonstrate sufficient knowledge and understanding of the key features of learning analytics to explain its purpose in instructional design.
2. Apply knowledge of learning and motivation theories in order to identify and select key learning environment data.
3. Undertake inferential analysis of learning data and specify appropriate interventions to enhance learning and teaching.
4. Critically evaluate a proprietary learning analytic tool, for example Gradebook on VLE.

### Suggested References:

The following list includes the essential and additional texts of the module. Please use the related sources from the list (total 60% of the references in the paper). The other 40% of the references you use should be out of this list. The extra resources should be academically reliable and not older than 20 years.

You can click on the list to access the files.

Academic Analytics: A New Tool for a New Era in EDUCAUSE Review  
Article by John P. Campbell; Peter B. DeBlois; Diana G. Oblinger 2007

Introduction to Big Data  
Document by Xiaomeng Su

Defining an agenda for learning analytics in Proceedings of Rhetoric and Reality: Critical perspectives on educational technology  
Chapter by C. Gunn

Identifying Factors Influencing Students' Motivation and Engagement in Online Courses in Motivation, leadership and curriculum design: engaging the Net Generation and 21st century learners  
Chapter by D. Gedera; J. Williams; N. Wright

How Motivation Influences Student Engagement: A Qualitative Case Study in Journal of Education and Learning  
Article by Sitwat Saeed; David Zyngier 26/11/2012

Ten commandments for motivating language learners: results of an empirical study in Language Teaching Research  
Article by Z. Dörnyei; K. Csizér 1998

Predictive Modelling in Teaching and Learning in Handbook of Learning Analytics  
Chapter by Christopher Brooks; Craig Thompson

Statistical Significance, Sample Size and Expected Effects in Explorable  
Webpage by Siddharth Kalla Jun 18, 2009

Application of educational data mining on analysis of students' online learning behavior in 2017 2nd International Conference on Image, Vision and Computing (ICIVC)  
Article by Jie Wang; Hai-yan Lv; Biao Cao; Yuan Zhao 2017

Application of educational data mining on analysis of students' online learning behavior in 2017 2nd International Conference on Image, Vision and Computing (ICIVC)  
Article by Jie Wang; Hai-yan Lv; Biao Cao; Yuan Zhao 2017

Discovering Big Data Modelling for Educational World in Procedia - Social and Behavioral Sciences  
Article by Jyotsna Talreja Wassan 02/2015

Let's not forget: Learning analytics are about learning in TechTrends  
Article by Dragan Gašević; Shane Dawson; George Siemens 2015-1

Learning Analytics: The Emperor's New Clothes? in The Journal of Educational Innovation, Partnership and Change  
Article by Sue Milward 18/09/2017

Analytics of student behaviour in a learning management system as a predictor of learning success in 2017 12th Iberian Conference on Information Systems and Technologies (CISTI)  
Article by Bertil P. Marques; Jaime E. Villate; Carlos Vaz Carvalho 2017

A framework for learning analytics in moodle for assessing course outcomes in 2016 IEEE Global Engineering Education Conference (EDUCON)  
Article by Sahar Yassine; Seifedine Kadry; Miguel-Angel Sicilia 2016

What Sources Of Learning Analytics Should You Be Collecting? in eLearning Industry  
Webpage by Jim Yupangco 2017