1. Module Title: Measurement in Health and Disease		
2. Module Code: 2648012	**3a. Version No.:** 2 **3b. Date Approved:** **3c. Date last revised:** November 2007	
4. Module Leader and Teaching Team: (indicate by * for module leader) Professor Martin Bland*, Professor David Torgerson		
5. Timing of Module Once per week, am, Summer Term (Wednesday)		
6. Name of Pathway/Branch/Course: MSc in Evidence Based Practice, M.Sc. Mental Health		
7. Module Status: Compulsory	**8. Level:** M	**9. No of Credits:** 10
10. Professional Body Requirements: None		
11. Pre-requisite(s): None	**12. Co-requisite(s):** None	**13. Barred Combinations:** None
14. Aims of Module: The course will concentrate on selecting health measurement instruments in scientific research, the methodology and techniques of designing and evaluating health measurement-instruments and the critical appraisal of reports on the properties of health measurement-instruments.		
15. Synopsis of Module: The module will begin with an introduction to measurement and measurement error. It will look at different aspects of evaluation for the different types of scoring instruments and some methods of designing these instruments. Establishing reliability and validity will be emphasised, together with critical appraisal of reports of the properties of instruments.		
16. Learning Outcomes: Students will understand the nature of measurement error and observer variation and their measurement. The student will understand the uses of and the interpretation of different types of measurement. The student will understand the construction of composite measurement scales.		

17. Teaching & Learning Strategies (including sizes of groups taught, eg full, seminar etc)

18. Allocation of Teaching & Learning Time *(100 hours total per 10 credits)*

a. Lectures	b. Seminars	c. Tutorials	d. Lab/ Practical	e. Directed Study	f. Private Study	g. Other	h. Formal Exams	i. Total
10			10	40	38		2	100

19. Delivery Details	**19a: Principal Teaching Site:** University of York	**19b: Max No Students per module intake:** 30	**19c: No Intakes per year:** One

20. Assessment Strategy

Knowledge of measurement in health and disease will be tested at the end of the module by a two-hour open-book examination.

21. Indicative Content/ Sessions Outline

The course will last for nine sessions.

Sessions 1-8 will cover:

- Making measurements
- Measurement error
- Observer variation
- Limits of agreement
- Cohen's Kappa
- Sensitivity and specificity
- Reference intervals
- Construction of quality of life instruments
- Critique of quality of life instrument
- Construction of composite scales
- Validity of measurement instruments.

Session 9: Assessment by exam with open-ended questions

Teaching Methods

Sessions consist of a mixture of lectures and practical work, including critical appraisal of published material.

22. Teaching & Learning Resources:

22a Reading List

Streiner DL, Norman GR. Health measurement scales: a practical guide to their development and use. Third Edition. Oxford: Oxford University Press, 2003
Bland M. An Introduction to Medical Statistics. Oxford University Press, 2000.

22b. Journals

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22c. Websites and other electronic sources

All teaching material will be available on the Web.

22d. Other useful resources

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22e. Staffing Requirements

Lecturers with necessary knowledge.