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| **COURSE CONSTRUCT ALIGNMENT** |
| **DEPARTMENT & FACULTY: Department of Education Foundation and Social Science Faculty of Education UTM** |
| **COURSE & CODE: Introduction to Scaling & Instrumentation [MPPR 1333]**  **SEMESTER : 1**  **SESSION : 2015/2016** |
| **PREPARED BY :**  **NAME : Dr. Rohaya Talib**  **DATE : September 2015** |

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| WEEK | PO | CLO | CONTENT | TEACHING & LEARNING ACTIVITIES | ASSESSMENT METHODS/TOOLS | STUDENT LEARNING TIME |
| 1 | PO1 | CLO1 | INTRODUCTION TO SCALING AND INSTRUMENTATION | Lecture  Mind Mapping : Students have to design a mind map on types of measurement data and scales with example | * Mind Map (10%) PO1 | **❶Face to Face Learning**  Lecture : 42 hrs  Students Centered Learning : 6 hrs  **❷ Self-Directed Learning**  Non-face-to-face learning or student-centered learning (SCL) such as homework, group project, project  : 24 hrs  Revision & Information Search : 21 hrs  Assessment Preparation : 12 hrs  **❸Formal Assessment**  Formative Assessment : 12 hrs  Final Exam : 3 hrs  Total : 120 hrs |
| 2 | PO1 | CLO1 | MEASUREMENT DATA (NOMINAL, ORDINAL, INTERVAL, RATIO) |
| 3 | PO1 | CLO1 | TYPES OF SCALES |
| 4 | PO1 | CLO1 | INSTRUMENTATION PLAN | Lecture  Groupwork 1 : Instrument Review –Students are required to review two research paper on instrument development and develop the flow of constructing the tool.  Groupwork 2: Conceptualization - Students are given three constructs to be measured. They need to explain how to develop the conceptual definition (CD) and operational definition (OD) for each construct thru meta-analysis procedure | * Quiz 1(10%) PO1   NALI : Project-Based Learning-Development and Validation of an Instrument (Questonnaire) |
| 5 | PO1 | CLO1 | INSTRUMENT DEVELOPMENT PROCESS |
| 6 | PO1  PO2 | CLO1 | INSTRUMENT CONCEPTUALIZATION [EG : QUESTIONNAIRE] |
| 7 | PO1  PO2 | CLO1 | ITEM CONSTRUCTION |
| 8 | PO1  P02 | CLO2 | PILOT TEST / ALPHA TEST /BETA TEST | Lecture  Group Discussion :   * Definition * Purpose of Pilot Test * Item deletion * Statitical Analysis |
| 9 | PO2 | CLO2 | ESTABLISH VALIDITY | Lecture  Group Discussion :   * Issues, concept and procedures establishing validity and reliability |
| 10 | PO2 | CLO2 | ESTABLISH RELIABILITY |
| 11 | PO2 | CLO3 | RASCH MEASUREMENT APPLICATION (DATA INPUT ) | Lecture  Application : Winsteps Software  Group Presentation : Students present the analysis based on the Item Response Theory (IRT)   * Content validity * Construct validity and Reliability –Person / Item | * Quiz 2 (10%) PO2 * Presentation (5% ) PO3(Rubric) * Report (20%) PO2 (Rubric) * Life Long learning (5%) PO7 (Rubric) * Final Exam (40%) PO2 |
| 12 | PO2  PO3 | CLO3 | RASCH MEASUREMENT APPLICATION (DATA ANALYSIS) |
| 13 | PO2  PO7 | CLO3 | RASCH MEASUREMENT APPLICATION (DATA INTERPRETATION) |
| 14 |  |  | REVISION |