**Module II: Tools and techniques for data collection**

**(03 Credits: 90 Hrs.)**

* Concept of Measurement, Evaluation, Assessment & Appraisal; Scales of Measurement: Nominal, Ordinal, Interval and Ratio.
* Data: Concept and its types (Qualitative & Quantitative, Parametric & Nonparametric)
* Connotation of Tools and Techniques.
* Techniques for data collection: Observation Technique, Self Reporting Technique, Testing Technique, Sociometry Technique, Projective Technique.
* Tools for data collection: Objective & Subjective Tools. Continuum of Objectivity in context of tools.
* Different tools and their developmental procedures: Questionnaires, Schedules, Inventories, Interviews, Check Lists, Rating Scales (Numerical, Graphical, Ordering, Position, Forced Choice), Projective Tools (TAT, CAT, Ink Blot Test, Sentence Completion, Word/Picture/Sentence/Free Association Test, Psycho-drama), Sociometry (Sociometric Matrix, Sociogram, Sociometric Index), Observation, Tests, Test Battery, Attitude Scales (Thurston, Likert), Q-Short Method, Semantic Differential Scale, Cumulative Record, Anecdotal Record, Content Analysis.
* Characteristics of good research tools: Objectivity, Reliability, Validity, Norms & Usability.