

SARDAR PATEL UNIVERSITY
Programme: MSC (Forensic Science)
Semester: III
Syllabus with effect from: June 2011

Paper Code: PS03EFSC01	Total Credits: 4
Title Of Paper: Teaching & Research Aptitude & Quality Management	

Unit	Description in detail	Weightage (%)
1	<p>Quality management (ISO/IEC/NABL): General requirements for the competence of testing and calibration laboratories- Introduction, Scope, management requirements: Organization, quality system, Document Control, review of requests, tenders and contracts, subcontracting of tests and calibration, purchasing services and supplies, service to the clients, complaints, Corrective and preventive actions, Control of records, Internal Audits. Report writing and evidence evaluation: Components of reports and report formats in respect to crime scene and laboratory findings court testimony- admissibility of expert testimony, pre court preparations and court appearance, Examination in chief, cross examination and re-examination, ethics in forensic science.</p>	25 %
2	<p>Technical requirements: general, personnel, accommodation and environmental, condition, test and calibration methods and method validation, equipments, measurement traceability, sampling, handling of test and calibration items, assuring the quality of test and calibration results and reporting results. Laboratory Management: Laboratory information management system, validation and safety equipments.</p>	25 %
3	<p>Teaching Aptitude: Teaching: nature, objectives, characteristics and basic requirements. Qualities and characteristics of the learner. Meaning of growth and development. Stages of development. Factors affecting teaching. Teaching tactics. Teaching strategies and learning objectives. Teaching methods (teacher centered methods, pupil centered methods). Teaching aids (audio-visual aids, blackboard, Radio, Films and television), Evaluation system: scope of evaluation, purpose of evaluation, types of evaluation.</p>	25 %
4	<p>Research Aptitude: Research: meaning, characteristics and types. Steps of research: selection of a problem, Questions raised during selecting a problem, formulation and delimitation of a problem, title of research, statement of the problem, defining of the problem, preparation of research synopsis, hypothesis. Methods of research: survey method, historical method and experimental method. Research ethics: prejudices and biases, fallacies, imaginary assumptions, contaminated facts, poorest forms of rationalization. Research papers, conferences, workshops, seminar techniques symposium. Thesis writing: importance and need, format of thesis report writing, style of preparing a thesis</p>	25 %

Basic Text & Reference Books:

- UGC Net: Upkar Prakashan.
- Quality Manual (NABL).

