

Film Processing

DIPLOMA STANDARD

The motion picture - laboratory different types of processing methods - Developers for motion picture - processing replishers and replishment. Fixing, washing and drying of motion picture films - General Sensitometry and the technique of Sensitometer operations on motion picture - films processing troubles - Recovery of silver - after care of films - Storage of films.

Quantitative evaluation of the developed image - Measurement of spectral sensitivity. Interpretation of sensitometric results. The theory of tone reproduction, Duplication of films - Black and white and colour, Materials for construction of processing equipment - basic machine designings, Dark room designs, safe lights, processing and printing.

Chemical analysis - Black and white - colour, Application of chemical analytical and sensitometric data in process control.

Maintenance of charts for the above purpose, Chemical mixing - precautions in handling chemicals storage of chemical motion picture printing techniques, Reversal processing - Black and White Colour optical printer - Special effects.

Special techniques - Film waxing, Cleaning (Ultrasonic Cleaning) Polishing, fixing toning and lacquering.

Processing of variable area and variable density sound tracks for Black and White - Colour films. Principles of colour photography - Additive and subtractive Systems Multilayer colour films - integral tripack and modern colour film processing stages as below.

- (i) study of different formula Popular process like ECN.II, ECP.II Ektachrome Reversed Process-E6,C-41 Process etc.
- (ii) Uses of computer in the motion picture processing Laboratory.

COLOUR REVERSAL PROCESSING

Electronic Colour Analyser - Principles - Operational methods, data collection - Tape punching and programming the negative and F.C.C. Negative preparation methods.

MODERN PRINTING TECHNIQUES

Additive - Subtractive - Liquid gate printing systems. Sensitometric Colour application, Densitometer colour applications.

Colour process monitoring - Control strips - Reference strips - Determining the process Level - limits and tolerance - Changing Batches of control strips - Reference value adjustment references - Processing the control strips -Safe Handling of colour Processing Chemicals.