

# AMPT27 COLOUR SEPARATION TECHNIQUES

## UNIT-1 LIGHT AND COLOUR

- 1.1 Electromagnetic waves, visual appreciation.
- 1.2 Properties of colour, colour perception.
- 1.3 Additive & subtractive principles of colour synthesis.

## UNIT-2 QUALITY CONTROL AIDS

- 2.1 Copy preparation and evaluation.
- 2.2 Tone and colour control.
- 2.3 Grey scale, register marks, register punch, Colour Patches.

## UNIT-3 COLOUR SEPARATION

- 3.1 Principles of colour reproduction.
- 3.2 Methods of colour separation: direct colour separation and indirect colour separation.
- 3.3 Exposure control system.
- 3.4 Evaluation of colour separations.

## UNIT-4 ELECTRONIC COLOUR SCANNER

- 4.1 Principle of scanning, Principles of colour.
- 4.2 Electronic colour scanner: Working principle and functions of a colour scanner.
- 4.3 Electronic colour separation: scanner programming, scanner operation and evaluation of separations through scanner.

## UNIT-5 MISCELLANEOUS CAMERA TECHNIQUES :

- 5.1 Duotone negative making.
- 5.2 Rescreening of halftone prints.
- 5.3 Preparation of halftone tints.
- 5.4 Line & halftone combination work.
- 5.5 Dropout negative-making.

### Reference Books:

1. Hentzel, Fred Ray Blair and Tom Destree, Graphic Arts, Photography: Black and White, GATF, U.S.A.
2. Eric Chambers, Manual of Graphic reproduction for Lithography, Litho Training Services Ltd., London and Manchester, 1979.
3. Ekald Fred Noemer, The Handbook of Modern Halftone, Photography, Perfect Graphic Arts, Demarest.