# 2.14 31534 PROCESS PLANNING AND FILM ASSEMBLY

### UNIT-1 LAYOUT & PLANNING FOR FILM ASSEMBLY

1.1 Importance of planning and planning considerations.

1.2 Layout and planning information the layout factors- related to paper, machine, plate size,

1.3 Plate Clamp allowance, paper grip allowance, arrangement of individual images of varying sizes, areas of critical register, and ink distribution over the sheet.

1.4 Planning for rapid press make-ready: Plate-cylinder guide marks standard distance,

1.5 Fitting the plate to the press, gripper and plate clamp allownance.

1.6 Preparing the Layout: Sheet base and centre reference lines on the layout,

1.7 Placing the aids (register marks, colour quides, star-tergets, etc.,) within the layout;

1.8 Complicated layouts - strait cut, die-cut and punched finishing and as per work specifications.

1.9 Planning imposing schemes: The imposition, imposition terms heads, food, fore-edges, backs, gutters, tails, folios, and perfecting, imposing rules upright and oblong.

1.10 Methods of printing book-work: Sheet - Work, work and turn, work and tumble, back marging allowance for sewing, saddle stitching, side stitching, perfect binding, etc., book-work margins.

1.11 Planning equipment, tools and materials.

1.12 Image quality control aids and devices.

### UNIT-2 METHODS OF PLANNING

2.1 Direct ruling to the plate.

2.2 Considerations and methods of manila/ paper template with projected lines, metal keys,

2.3 Golden rod Key, hinged printing down flats, Burn and red keys on film, adhesive and transfer systems.

### UNIT-3 IMAGE REGISTER SYSTEMS

3.1 Register pins; punched- whole methods.

3.2 Page layout scheme including bleeds, trims and folds.

3.3 Step & repeat.

### UNIT-4 NEGATIVE/ POSITIVE FILM ASSEMBLY

4.1 Inspection of films for assembly

4.2 Attaching negatives to masking materials

4.3 Positive film assembly Opaquing and checking the flat.

4.4 Attaching tints on line negatives.

4.5 Film Assembly for multi-color printing.

### Reference books:

1. Peck, H.L., Stripping: The Assembly of Film Images, Graphic Art Technical Foundation, U.S.A., 1989.
2. Gatehouse and Roper, film Assembly and Platemaking, Graphic Arts Technical Foundations U.S.A., 1982