AMLT11 METHODS OF LEATHER MANUFACTURE-II

UNIT-1 NEUTRALIZATION
1.1 Controls of neutralisation, choice of neutralising agents,
1.2 Degree of neutralisation for different types of leather,
1.3 Efficacy of neutralising syntans.

UNIT-2 DYEING
2.1 Choice of dyestuffs for leather, checking of affinity of dyestuffs for a particular leather,
2.2 Influence of retanning on dyeing property of leather,
2.3 Leveling of dyestuffs for uniform coloration, different methods of dyeing techniques,
2.4 Fixation of dyestuffs, penetration of dyestuffs,
2.5 Practical aspects in the dye house, fastness properties in respect to a color,
2.6 Manual color matching

UNIT-3 RETANNING
3.1 Objectives of retannage, effects of different retanning agents e.g. vegetable tanning agent,
3.2 Synthetic tanning agents, resin tanning agents, aldehyde tanning agents etc.
3.3 On a particular leather (chrome/vegetable/aldehyde- tanned),
3.4 Choice of combination of retanning agents with a view to the ultimate leather,

UNIT-4 FATLIQUORING
4.1 Stuffing, currying, dubbing, types of oil, fat raw stock,
4.2 Methods of modification of fat compounds,
4.3 Practical fatliquoring methods followed in leather houses,
4.4 Properties of different types of basic technical fatliquor,
4.5 Choice of fatliquor for specific leather, hydrophobisation of leather,
4.6 Degreasing of pelts and leathers.

UNIT-5 DRYING OF LEATHER
5.1 Influence of drying conditions on properties of leather e.g.
5.2 Influence of humidity, influence of temperature,
5.3 Technical drying methods e.g. vacuum drying, paste drying etc.

UNIT-6 MECHANICAL TREATMENT
1. Samming, Splitting, Shaving, Setting, Staking,
2. Toggling, Buffing,
3. Different drying systems of leather in wet conditions.

Reference Books:
1. An Introduction To The Principles Of Leather Manufacture - S . S .Dutta .
2. Physical Chemistry Of Leather Making - Krysztof Bienkiewicz .
3. Fundamentals Of Leather Manufacture - Eckhart Hidemann .