Summary

Following concepts are learnt from this lecture

I.   Reduction formula is a one which connects a given integral with another integral of same type but of lower degree to evaluate using any technique of integration.

II. The reduction formula for $\int \sin^n x\,dx = \dfrac{-\sin^{n-1} x \cos x}{n} + \dfrac{(n-1)}{n} I_{n-3}$

III. Taylor's theorem is a mean value theorem