Main Topics (***Detailed Contents***) **(Stat-401)**	**Revision of Simple Linear Regression Models** Determination of simple linear regression- Ordinary Least Square Method Estimators- (OLS)-Properties of (OLS) estimators. **Multiple Regression Models:** The Nature of Linear Multiple Regression Model- Ordinary Least Square Method Estimators- (OLS)-Statistical Inference of Ordinary Least Square Method Estimators - Dummy Variables-The Consequences of Mulicollinearity-Detection of Multicollinearity. Seasonal Adjustment-Remedy of Autocorrelation. **Non-Linear Regression Models:** Non simple Linear Regression – Transformation Technique – Non Linear Regression Models- **Generalized Least Square Models:** Generalized Least Square Method Estimators-Heteroscedasticity- Heteroscedasticity test- Autocorrelation Problem-The Consequences of Autocorrelation- Durbin-Watson test- Simultaneous Equations Models- Sequential Reminders-Instrumented Variables-lagged Explanatory Variables Models. **Systems of Simultaneous Equations:** Consume Function – Covariance coefficient - Instrumented Variables- Errors of Variables. **Identification Problem:** Non-identification Equations- Supply and Demand Model-Identification by using Previous information- Identification by using previous information for Exogenous Variables-Problem of increasing the identification.