Indian Institute of Technology Guwahati
Proposal for a New Course/ ~~Revision of a Course~~

Course Number & Title: BM711 & Econometric Methods	
L-T-P-C: 3-0-0-6	
Type of Letter Grading (Regular Letter Grades / PP or NP Letter Grades): Regular Letter Grades	
Kind of Proposal (New Course / Revision of Existing Course): New Course	
Offered as (Compulsory / Elective): Elective	
Offered to: Doctor of Philosophy (PhD)	
Offered in (Odd/ Even / Any): Any	
Offered by (Name of Department/ Center): School of Business	
Pre-Requisite: NIL	
Preamble / Objectives (Optional):	
Course Content/ Syllabus *(as a single paragraph if it is not containing more than one subject. Sub-topics/ Sections may be separated by commas(,). Topics may be separated by Semi-Colons(;). Chapters may be separated by Full-Stop(.). While starting with broad heading, it may be indicated with Colon symbol before the topics. For example: Multi-variable Calculus: Limits of functions, Continuity, ...)* Introduction to Econometrics; Basics of regression analysis, concepts and assumptions; Multiple Regression Analysis; Multicollinearity and Inference; Heteroscedasticity; Autocorrelation; Mis-specification Errors; Qualitative variables, dummy variable regression; Introduction to time series analysis; Instrumental variable and 2 Stage Least Squares (SLS); Binary/Multinomial response models, Introduction to logit, probit, tobit, multinomial logit/probit, Heckman selection models; Panel data analysis, fixed effects, random effects, panel VAR, panel cointegration.	
Books (In case UG compulsory courses, please give it as "Text books" and "Reference books". Otherwise give it as "References".	
Texts: (Format: Authors, *Book Title in Italics font*, Volume/Series, Edition Number, Publisher, Year.)	
1.	Wooldridge, J., *Introductory Econometrics: A Modern Approach*, 5th edition, Cengage Learning, 2013.
2.	Gujarati, D. N., & Porter, D. C., *Basic Econometrics*, 5th edition, McGraw Hill, 2009.