

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

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| Course Number & Title: BM713 & Research Methodology in Finance | | | | | |
| 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 | | | | | |
| <p>Preamble / Objectives (Optional):</p> <p>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,)</p> <p>Introduction to financial econometrics, data gathering, types of data in finance; Review of the classical linear regression model; Univariate time series modelling and forecasting, Autoregressive processes, Moving Average processes, ARMA processes; Multivariate time series analysis, Vector autoregressive models; Cointegration: Modeling long-run financial behaviour, Stationarity and unit root testing, Cointegration, Error correction models; Modelling Volatility: Autoregressive conditionally heteroscedastic (ARCH) models, GARCH models, Asymmetric GARCH models, E-GARCH; Switching Models, Markov switching models.</p> | | | | | |
| <p>Books (In case UG compulsory courses, please give it as "Text books" and "Reference books". Otherwise give it as "References".</p> <p>Texts: (Format: Authors, <i>Book Title in Italics font</i>, Volume/Series, Edition Number, Publisher, Year.)</p> <table border="1"> <tr> <td>1.</td> <td>Brooks, Chris., <i>Introductory Econometrics for Finance</i>, 3rd Edition, Cambridge University Press, 2014.</td> </tr> <tr> <td>2.</td> <td>Gujarati, D. N., & Porter, D. C., <i>Basic Econometrics</i>, 5th edition, McGraw Hill, 2009.</td> </tr> </table> | | 1. | Brooks, Chris., <i>Introductory Econometrics for Finance</i> , 3 rd Edition, Cambridge University Press, 2014. | 2. | Gujarati, D. N., & Porter, D. C., <i>Basic Econometrics</i> , 5 th edition, McGraw Hill, 2009. |
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| 2. | Gujarati, D. N., & Porter, D. C., <i>Basic Econometrics</i> , 5 th edition, McGraw Hill, 2009. | | | | |