



ARMY INSTITUTE OF MANAGEMENT AND TECHNOLOGY

FACULTY DEVELOPMENT PROGRAMME

ON

**ECONOMETRIC MODELING IN
SOCIAL SCIENCE RESEARCH**

TEACH TO LEARN AND LEARN TO TEACH

May 19- 20, 2017; AIMT CAMPUS; GREATER NOIDA

About Us

Army Institute of Management & Technology (AIMT) is a premier MBA Institute in Greater Noida (NCR) near Delhi. It was established by the Army Welfare Education Society (AWES) in 2004 in the hi-tech city of Greater Noida. The forerunner of the Institute was Faculty of Management Studies (FOMS), College of Materials Management (CMM), Jabalpur which was set up in summers of 1995. In a span of about ten years, FOMS carved a niche for itself and became a reputed business institution. In 2002 the college relocated and re-established itself with a new identity and a new name in the plush and quite environs of Greater Noida (NCR).

AWES has so far established 134 Army Schools and 11 professional colleges. Designed to capture the increasing needs of industry for Management and Computer Application professionals for the benefit of the wards of Army personnel, a sprawling new campus of the Institute was constructed over an area of 15.34 acres 41kms from Delhi.

AIMT, Greater Noida has been established to conduct MBA program in a fully residential campus. The first batch of students joined the institute in Aug 2004. The institute is affiliated to the Guru Gobind Singh Indraprastha University (GGSIP), Delhi. The campus can accommodate nearly 500 students at its peak capacity. The institute is set to become one of the premiere professional colleges of the country. Equipped with all modern learning tools/facilities, the fraternity aims to provide top class management and education to the students. The college has tiered seating with AC lecture halls for better visibility. Also the campus encloses a residential complex to house all its teaching and non-teaching staff.

AIMT not only provides Placement but also creates placements with over 15% of its students turning entrepreneur with proven track record.

Background of the Programme:

The ability to model and perform decision modeling and analysis is an essential feature of many real-world applications. Existing formalisms and methods of inference have not been effective in real-time applications where tradeoffs between decision quality and computational tractability are essential. In practice, an effective approach to time-critical dynamic decision modeling should provide explicit support for the modeling of temporal processes and for dealing with time-critical situations.

One of the most essential elements of being a high-performing manager is the ability to lead effectively one's own life, then to model those leadership skills for employees in the organization. A central objective of this faculty development programme is to unify the various forms of business topics to link them closely to each other and to the supporting all fields of management including finance, marketing, human resource management, operational research, international business and information technology, to name a few.

Almost all managerial decisions are based on forecasts. Every decision becomes operational at some point in the future, so it should be based on forecasts of future conditions. Forecasts are needed throughout an organization -- and they should certainly not be produced by an isolated group of forecasters. Neither is forecasting ever "finished". Forecasts are needed continually, and as time moves on, the impact of the forecasts on actual performance is measured; original forecasts are updated; and decisions are modified, and so on.

Researchers are attempting to 'model' what the reality is so that effective prediction may be done. Statistical Modeling, in addition to being of central importance in statistical decision making, is critical in any endeavor, since essentially everything is a model of reality. As such, modeling has applications in such disparate fields as marketing, finance, and organizational behavior. Particularly compelling is econometric modeling, since, unlike most disciplines (such as Normative Economics), econometrics deals only with provable facts, not with beliefs and opinions.

Due to the emerging essence of interdisciplinary research, econometric modeling has become vital in all fields of management. Modeling is, simply put, the creation of representations of reality. Models imply that action is taken only after careful thought and reflection. A key element of planning and forecasting is the ability to construct models showing the interrelatedness of data. Models showing correlation or causation between variables can be used to improve managerial decision-making.

Target Participants:

- Academicians in the area of Management / Arts / Humanities.
- Research scholars from different areas of social science.
- Research Scholars who need statistical and analytical assistance in their Ph. D. course work.
- Executives working with Corporate and exposed to analytics.

Objective of FDP:

- To provide a hands-on experience of the models and tools used for conducting research in the different subject domains,
- To train researchers to draw better conclusion from the analysis.
- To guide researchers in writing a research paper.
- To enhance the researchers and faculty to define research problem and framework.
- To help faculty and research scholar to formulate a research proposal.

Resource Persons:

1. **Prof.(Dr.) J. D. Agarwal, Indian Institute of Finance**
2. **Prof.(Dr.) Yamini Aggarwal, Indian Institute of Finance**
3. **Prof. (Dr.) B. B. Das , Commodore (Retd.), Indian Navy**
4. **Dr. Gagandeep, IP University**
5. **Dr. Anubhav Varma, AIMT**

Programme Schedule:

Day 1: May 19, 2017

Inaugural Session

Session 1:

1. Introduction to Econometrics:
2. Simple Two Variable Linear Regression Model

Session 2:

3. Multiple Linear Regression Model.
4. Practical Aspects of the Linear Regression Models - Multicollinearity, Heteroscedasticity
5. Autocorrelation and Model Selection

Day 2: May 20, 2017

Session 3:

5. Autoregressive and Distributed Lag Models
6. Dummy Variable Model
7. Econometric Modeling: Model Specification and Diagnostic Testing

Session 4:

8. Regression Analysis with Cross-Sectional Data
9. Logit and Probit Models
10. Time-series Econometrics

Valedictory Session

Note: Please bring your own laptops to facilitate practical training.

Important dates

Last Date of registration: May 15, 2017

Date of FDP: May 19-20, 2017.

Participation Fees (including study material, kit and food):

Industry	Rs. 2,500
Faculty	Rs. 2,000
Research Scholars/ Students	Rs. 500

Air conditioned accommodation on first come first serve basis (Rs. 500 per person per day on twin sharing basis).

Accommodation: AIMT Guest house.

Registration details

1. Through DD/ Cheque

2. Through NEFT

(The fee includes all course material.)

DD/ Cheque/ NEFT Details:

Account Name: ARMY INSTITUTE OF MANAGEMENT & TECHNOLOGY COLLEGE FUND

Account Number: 12282191095231

IFSC Code: ORBC0101228

Name of Bank: Oriental Bank of Commerce

Account type: Saving

Profiles of the Resource Persons



Prof. (Dr.) J. D. Agarwal, (Ph.D. (DSE, DU); Hony. Ph.D. (TFI, Uzbekistan); Hony. D.Litt. (SZIU, Hungary)) Dr. Agarwal is an Institution Builder - A man of mission & vision, A leading Economist & Financial Expert. To promote education & research in Finance, his work includes founding Indian Institute of Finance & Jyoti Foundation, writing 16+ books (authored over 6000 pages), editing 100+ volumes of Finance India (30000 pages), publishing 250+ research papers, 32 book reviews, 500 case studies & working papers; supervising several Ph.Ds, M.Tech/MBA/M.Sc. dissertations, & research projects; lecturing in 500+ MDPs- trained 10,000+ managers from Govt. & Industry; participating in 600+ Radio /TV talks/interviews as an expert; organizing/participating in 1000+ seminars & conferences world over; Assisting 100+ Institutes/Universities globally; Signing 26+ MoUs internationally & visiting 60+ countries. He also started Finance India- The Quarterly Journal of Finance in 1987. Each issue is of 400 pages, rated 3rd best world wide with most prominent experts from all over the world including 6 Nobel Laureates. To add on, he is at present, Chairman and Management Trainee, Jyoti Foundation, Editor-in-chief, Finance India and Professor of Finance and Chairma, Board of Director, Indian Institute of Finance.



Prof. (Dr.) Yamini Agarwal (Ph.D., M.Com, MBF) Yamini is currently working as Professor of Finance. She has done her Ph.D. on Capital Structure Decision under Multiple Objectives : A Study of Indian Corporates from IIT, Delhi. She has 15 Research Papers and 27 Book Reviews published in international and national refereed journals. She has supervised over 71 MBA level dissertations. She has developed 20 Case Studies in Corporate Finance and Managerial Economics. She has also presented 9 research papers in international and national conferences and seminars. She is also on the referee and review board of several well known publishers. She is also Associate Editor of Finance India. She is Regional Council Members of the Indo American Chambers of Commerce. She is also Editorial Board Member of the International Journal of Education Economics and Development (IJEED) published in Switzerland. She has been nominated to several committees of various Chambers like FICCI, PHDCCI and ASSOCHAM. She has delivered seminars at Central Banks and National Universities of different countries. She has travelled over 20 countries as part of the international academic collaborations. She is on the editorial board of the journal Sub-Saharan Review of Economics and Finance Paris, France. She has a research bent of mind. Her areas of interest are Corporate Finance and Valuations, Micro and Macroeconomic Perspective on Global Issues, Security Analysis and Portfolio Management. Yamini has eleven years teaching experience in the areas of Corporate Finance ; Advanced Financial Analysis ; International Finance ; New Financial Models ; Managerial Economics and eFinance.



Dr. B. B. Das (Ph.D., AMD, CDM, LDMC, MMS) As a technical officer of the Indian Navy he had a distinguished career of 33 years with many prized appointments. Having more than 22 years of experience in the field of technical and management education, has the credit of creating 3 management institutions in Delhi- NCR as founder director and taking them to the height of success. Has published and presented many research papers almost in all management subjects both in national and international forums. His passion and flair for teaching and intense concern for the development of students and faculty members has earned him their highest respect. Has passion to create new institutions with innovative and unique concepts to be followed by others. Thus, has been awarded Global Indian Achievers Award and Gold Medal Award for excellent contributions in spreading value based management education in India by the Institute of

Economic Studies. He was awarded Doctorate Degree from Faculty of Management Studies of University of Delhi on Operations Research. As a Technical Director with DRDO for 10 years, he handled many prestigious projects including fundamental research in Naval Technology. Guides research work of PhD students. He is a senior member of ORSI and life member of AIMA. He is the author of Redolent Thoughts, a book that has been written based on his unique thoughts and vast experience. With the experience of guiding 63 projects of different magnitude and complexity has written a book “Guide to Project Management” for international certification on Project Management. As a visiting professor he regularly conducts classes on many subjects. Also, conducts faculty development programs for teachers of schools and colleges. Being a columnist he regularly writes articles and editorials on recent issues to stimulate social, political and organisational reforms. Presently he is a Technology and Management. Recently, he has been awarded Life Time Achievement Award for exemplary contribution in Higher Education.

Dr. Gagandeep (Ph.D, M.Com) Dr Gagan Deep Sharma holds PhD in Management and Masters in Commerce. He has an academic nexperience of over twelve years. Currently, he is faculty in the University School of Management Studies (USMS) of Guru Gobind Singh Indraprastha University (GGSIPU), New Delhi. He also holds the position of Associate Director, Office of International Affairs of the University. Besides, he is the editor of ‘Indraprastha Journal of Management’ – the journal of USMS, GGSIPU. He has visited Canada, China, USA, Thailand, Tanzania, Kenya, and Mauritius for academic purposes. Current areas of his research interest include Investment Management, Research Methods and Value-based business. He has been associated with the study of ‘Human Values and Professional Ethics’. Dr Sharma has published papers in 20 International and 13 National journals. Besides, he has authored 4 books in the field of management. He has contributed columns in various newspapers. Dr Sharma is also an established Punjabi poet and has penned down 2 books of Punjabi poetry. He is the recipient of Indian Accounting Association’s ‘Young Researcher Award’ for 2014, Sahitya Akademi’s ‘Yuva Puraskar’ for 2014, Clute Institute (USA)’s ‘Best Paper Award’ and Punjabi Sahit Academy Award.



Dr. Anubhav Varma (PhD., M.Com)Dr. Anubhav Varma, Assistant Professor(Finance) is PhD, M.Com. from University of Allahabad. He has a work experience in academics of more than ten years with institutes of repute such as Jaipuria Institute of Management, IIBS, ICFAI, NIS and University of Allahabad. During this tenor taught students of MBA, MCA, CFA, EPGBM, M. Com., PGDAM and B.Com. His key areas of interest include Equity Analysis & Valuation, Econometric Modeling, Portfolio Management, Derivatives and Financial Engineering. He has participated in various seminars, conferences(national and international), FDPs, conducted several training programs for various organisations such as A.G. Office, Customs & Central Excise Department, Income Tax Department, Traders’ Association. He has to his credit several papers in the area of stock markets and financial engineering published in indexed and refereed journals. Received approval as Academic Guide of ICFAI. Obtained certification of Honors Diploma In Web Centric Curriculum from NIIT. He is an Authorized Tally Trainer(from Tally and NIS Sparta) to impart training to chartered accountants. Has a staunch belief in hard work and zest for creativity with a passion to teach and imbibe quality education, ethics and values amongst budding managers of tomorrow.

Patron

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