



BITS Pilani
Hyderabad Campus

Economics & Finance

Placement Brochure

Birla Institute of Technology & Science, Pilani
Hyderabad Campus

innovate

achieve

lead



Message from Head of the Department

It is my immense pleasure to introduce our Department of Economics and Finance. We offer M.Sc. (Economics), Minor in Finance & Ph.D. Our ex-students are doing very well in academics as well as in industry. The intake in our programmes includes quality students, all come through the prestigious BITSAT exam. They are groomed by the excellent team of our faculty members with very apt support from the superb BITS infrastructure. They all shine in their career in future. Our programme comprises of energetic and interactive classroom teaching including analytics and case studies, continuous evaluation, and a comprehensive course curriculum developed in consultation with academicians, researchers and industry. Students learn core Economics as well as courses in Analytics and Finance. They are allowed to work on study-oriented, design-oriented and lab-oriented projects which enhance their skills. They are allowed to spend time in industry as part of course curriculum or do a 6-month long research project. All these things make our students ready for industry, and enable them to become entrepreneurs or go for higher studies. This is an outcome of the efforts of our young, dynamic and committed faculty members. Our department feels proud of all our students. They all get placed well every year and enhance the reputation of the department as well as the institute with their performance.

Sudatta Banerjee

Department of Economics and Finance,
Birla Institute of Technology & Science, Pilani
Hyderabad Campus.





About the Department

The Economics and Finance Department at BITS Pilani, Hyderabad Campus offers **M.Sc. Economics**, as a first degree, **Minor in Finance**, and **Ph.D.** programme. The diversity of specializations of the departmental faculties has promoted multi-faceted research at the department and has brought a certain depth to the courses as well. Along with research, the department recognizes the growing demand for trained manpower in education, industry, government and other sectors as well as nurturing future researchers and specialists in the fields of economics, finance and management. The teaching methodology pursues to provide students with a strong conceptual foundation and to create a continuous interest and involvement with the real life applications of economics, finance and management.

Bloomberg

We have subscribed to the **Bloomberg** database to facilitate and to do value addition to the students' learning experience and the research atmosphere.





Important Courses for M.Sc. Economics

Core Disciplinary Courses

- Principles of Economics
- Fundamentals of Finance of Accounting
- Mathematical & Statistical Methods
- Economics and Environment of Business
- Principles of Management
- Econometric Methods
- Microeconomics
- Macroeconomics
- Economics of Growth & Development

Practice School 1 (PS-1)

- International Economics
- Money, Banking & Financial Markets
- Issues in Economics Development
- Public Finance: Theory & Policy
- Applied Econometrics
- Economic Analysis of Public Policy

Practice School 2 (PS-2)





Important Courses for M.Sc. Economics

Elective Courses

ECON F351: Indian Economic Development
ECON F352: Management of Banks and Financial Institutions
ECON F471: Resources and Environmental Economics
ECON F353: Energy Economics and Policy
ECON F411: Project Appraisal
ECON F412: Security Analysis and Portfolio Management
ECON F422: Functions and Working of Stock Exchanges
ECON F354: Derivatives and Risk Management
ECON F413: Financial Engineering
ECON F414: Creating and Leading Entrepreneurial Organizations
ECON F415: New Venture Creation
ECON F355: Business Analysis and Valuation
ECON F356: Strategic Financial Management
ECON F315: Financial Management
ECON F357: Management Control Systems
ECON F314: Industrial Economics
ECON F435: Marketing Research
ECON F434: International Business
ECON F418: Quantitative Analysis of International Trade
FIN F414: Financial Risk Analytics and Management
BITS F314: Game Theory
ECON F314: Behavioral Economics
FIN F314: Investment Banking and Financial Services





Important Courses for M.Sc. Economics

- The department offers a combination of courses from economics, finance and management areas. This unique combination gives the students a holistic perspective combined with sound area specific knowledge. Also, most of our students are doing engineering undergraduate degree simultaneously. So, a typical student profile can be a B.E. in Computer Science/EEE/ECE/Mechanical Engineering along with M.Sc. Economics! This excellent combination makes them a valuable asset for the industry.
- Our department particularly stresses on close industry linkages. We always strive to keep our courses updated with changing industry needs. One great example of this endeavor is our course Financial Risk Analytics and Management (FRAM; FIN F414). This course is designed and run in collaboration with the Credit Suisse.
- In coursework, we offer a variety of courses as listed above. Our thrust is on two areas: **econometrics** and **finance**.
- In **statistics and econometrics** related areas, we offer courses like Mathematical & Statistical Methods, Econometric Methods, and Applied Econometrics. In addition, other courses put adequate stress on verifying and applying the concepts with the help of data (through assignments, projects, etc.). The courses Econometric Methods and Applied Econometrics include topics like cross-sectional regression, panel data regression and time series analysis, which are highly relevant for the industry and have application in many fields including data analytics and finance. The students are also introduced to statistical software, including STATA and R, and are trained with hands-on sessions as part of the coursework. The projects on real life data help students develop data analysis skills.





Important Courses for M.Sc. Economics and Minor in Finance

- In **finance and accounts** related areas, we offer courses like Fundamentals of Finance of Accounting, Money Banking & Financial Markets, Security Analysis and Portfolio Management, Derivatives and Risk Management, Business Analysis and Valuation, Financial Risk Analytics and Management (FRAM), and Financial Management.
- Here, students get to familiarize with various instruments available for risk management. It covers rather simpler instruments such as options, futures, swaps, and credit derivatives. Besides discussing the pricing of these instruments and hedging principles, the course introduces complex instruments like options on futures and swaps, etc. FRAM is designed to meet the growing industrial need (Banking, Financial Services and Insurance – BFSI), to address challenges associated with financial risk (market risk, credit risk and operational risk) through quantitative models, statistical methods and numerical algorithms.
- The course also helps understand and appreciate the regulatory framework and compliance for reducing risk. Further, it highlights various risk management mechanisms that financial institutions follow to reduce the compliance risk. This course should be treated as an advanced course where students are expected to have general understanding of risk, return and pricing of financial assets & derivatives.
- The typical job market roles after pursuing the course are: risk modeling expert, credit risk analyst and/or quantitative risk analyst.





Facilities in Department

We have access to many databases such as NSSO, ASI, CMIE etc. Our library has a rich collection of books and online subscription to major economic journals through JSTOR & Science Direct. Recently, we have also acquired a **Bloomberg terminal** to train our students and facilitate research.





Thrust Areas of Research

- Industrial Organization.
- Development Economics.
- International Trade.
- Growth, Macroeconomic Policies.
- Economics of Corruption.
- Auctions, Mechanism Design.
- Game Theory.
- Human Resource Development.
- Corporate Finance.
- Financial Sector, Banking.
- Micro-finance.
- Labour Economics, migration.
- Economics of Education.
- Organizational Behaviour.
- Economics of Communication and Technology.
- Services Sector.





Projects

Sponsored Projects

1. Title: *Determinants of Women Empowerment and Trickle-down Effect of the same on Children's overall Educational and Health Development: Challenges, Effects and Intervention through Training*

- Duration : 1 year, Completed.
- Amount: Rs 4,00,000/-
- Funding Agency: ICSSR
- PI: Dr. Sudatta Banerjee
- CoPI: Dr. Swati Alok

2. Title: *Investigation of Knowledge on Dengue Fever Followed by Education and its Post Impact Behavioral Changes Among the Rural Communities of Shameerpet Mandal of Ranga Reddy District of Telangana State*

- Duration : 29 Mar 2017 till "Ongoing"
- Amount: Rs 10,89,792/-
- Funding Agency: ICMR-ICSSR
- PI: Prof. Sajeli Begum
- CoPI: Dr. Swati Alok

3. Title: *Career Persistence of Indian Women Professionals in Information Technology (IT) Sector: Brakes, Accelerators, Challenges and Opportunities*

- Duration: 30 Mar 2017 till "Ongoing"
- Amount: Rs. 2,00,000/-
- Funding Agency: ICSSR
- PI: Dr. Swati Alok
- CoPI: Dr. Sudatta Banerjee





Projects

4. Title: *Financial Inclusion through Urban Cooperative Banks: An Exploratory Study of Telangana State*

- Duration: 2 years, Ongoing
- Amount: Rs. 5,60,000/-
- Funding Agency: IMPRESS- ICSSR
- PI: Dr. Mini Thomas

5. Title: *Does Financial Awareness lead to Better Financial Inclusion Outcomes? An Investigation*

- Duration: 1 year, Ongoing
- Amount: Rs. 4,50,000/-
- Funding Agency: IMPRESS- ICSSR
- PI: Dr. Durgesh Ch. Pathak
- CoPI: Dr. Rishi Kumar

6. Title: *Impact of the ex-gratia for farmers' suicide on the surviving family member of the deceased farmers in Telangana*

- Duration: 1 year, Ongoing
- Amount: Rs. 4,00,000/-
- Funding Agency: IMPRESS- ICSSR
- PI: Dr. Thota Nagaraju

7. Title: *Women's Employment, Interstate Variations, and Time-use: A Comparative Study of Bihar and Andhra Pradesh*

- Duration: October 2018 to September 2020.
- Amount: Rs.11,88,000/-
- Funding Agency: Azim Premji University' Research Grant Programme
- Joint PI: Sunny Jose (Professor, Department of Humanities and Social Sciences) & Bheemeshwar Reddy A. (Assistant Professor, Department of Economics and Finance)





Projects

Students Projects Our students do various projects as part of their curriculum. These projects provide them with much needed exposure to work deeply on exciting ideas at the same time apply and extend the concepts learned in the classroom. Here is a short list of some of the projects done in recent times.

Name	Guide	Project Title
Nidhi Beeravolu	Archana Srivastava	Public-Private Partnership for Cross-border Infrastructure Development
Ayush Sachan	Mini Thomas P	Productivity Growth in India's Service Sector
Mudit Gupta	Sunny Kumar Singh	Effect of Supply Chain Management Performance on Firm Value
Garvit Arora	Thota Nagaraju	Risk Management & Trading Strategies
Veggalam Shankar Anand	Swati Alok	Competitor Analysis in Pharma Industry
Pranav Kumar Asthana, Ramnath Kumar	China Hussain Yaganti	Application of Machine Learning in Finance
Lakshith D	Sunny Kumar Singh	Econometric Analysis using STATA
Sukanya Khan	China Hussain Yaganti	Investigation of Asset Prices
Yash Manipuria	China Hussain Yaganti	Volatility estimation in forex markets: An empirical approach.
Abhijeet Singh, Aakanksha Mudgal	Rishi Kumar	Viability of Bitcoin
Ipsita Singh	Thota Nagaraju	An analysis of hedging opportunities and the corresponding trade strategies
Bapat Harshavardhan Shriran	Sunny Kumar Singh	Monetary Policy
Abhishek Ramnath A	Vijaya Bhaskar Marisetty	Using Graph Mining to evaluate Indian Business Groups
Deshmukh Arjun Deepak, Yash Raj Jain	Abdul Qadir	Auctions and Mechanism design Theory
Saurabh Agrawal	Vijaya Bhaskar Marisetty	Performance Analysis of Managed Funds/Arbitrage Strategies using Statistical Inference Tools and Techniques





Association and Club

Our students take lessons learnt from the curriculum outside the classroom by utilising their skills in clubs, associations and societies.

The Economics And Finance Association

The Economics and Finance Association is a student body, which regularly conducts events, talks, and panel discussions on latest developments in the field of Economics and Finance. We have our own annual Finance Conclave, **Finnovate**, which hosts eminent personalities like Dr. Aswath Damodaran, Professor at Stern School of Business, Mr. Dinesh Arora, Secretary of ICSI, Mr. Nitin Vyakaranam, Founder and CEO of Arthayantra, to inspire students and guide them.

The Association has been lauded with the **Best Technical Association** award twice in a row in 2016-17 and 2017-18.

The Association hosts various workshops like Value Investing workshop, Basics of Stock brokerage by Zerodha, R programming. We also conduct certification programs for Six Sigma, Tableau, Advanced Excel and Bloomberg training sessions.

De-Economist

De-Economist is a blog run by our budding economists. It offers insight and opinion on varied topics, focusing primarily on economics, business, finance and occasionally, campus specific articles pertaining to aforesaid topics.





Association and Club

The Wall Street Club

The Wall Street Club aims to cultivate interest in the fields of finance, management and consulting among students.

The club boasts of a growing and dedicated alumni network with links to the industry. The club holds various events throughout the year, a few of which involve simulating real world financial markets. With growing participation over the years, club members have won accolades in prestigious competitions across India.

Consulting Society

This society is a step forward toward enhancing the foundation of consulting on campus. It is a group of like-minded individuals who are enthusiastic about solving challenging business problems. The society is responsible for conducting its national-level case study competition, **CaseSensitive**.





Faculty And Contacts

Name of the Faculty Member	Email ID
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