



KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY

Deemed to be University U/S 3 of the UGC Act, 1956

SCHOOL OF ECONOMICS AND COMMERCE



# Bachelor of Science in 'Economics & Data Analytics'

Data-Powered Economics for a Smarter Future



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**Prof. (Dr.)  
Achyuta Samanta**  
Founder -  
KIIT, KISS & KIMS

## Message from the Founder

Dear Students,

We are thrilled to welcome you to the B.Sc. in Economics & Data Analytics program at KIIT Deemed to be University, Bhubaneswar. This cutting-edge program is specifically designed to equip you with the analytical skills, economic expertise, and data-driven insights necessary to succeed in today's fast-paced global economy. Through a unique blend of economic theories and advanced data analytics, you will gain the skills to analyse complex economic trends, make informed decisions, and drive meaningful change across various industries. Our immersive learning experience provides opportunities to engage with renowned academicians, industry experts, and real-world case studies, ensuring you gain hands-on experience in economic research, financial modelling, and big data analysis. Our program focuses on developing critical thinking, problem solving, and strategic decision-making skills, ensuring you graduate as a well-rounded professional poised to excel in the rapidly evolving fields of economics and data science. As you embark on this transformative journey, we encourage you to approach challenges with curiosity, creativity, and a commitment to excellence. Get ready to unlock a future where data meets economic insight!



**Prof. (Dr.)  
Saranjit Singh**  
Vice Chancellor

## Message from the VC

Dear Aspiring Economists,

I'm delighted to invite you to join our vibrant community of economists, thinkers, and innovators who are reshaping the economic landscape. Our program offers a comprehensive foundation in economic theory, quantitative analysis, and real-world problem-solving, empowering you to tackle complex economic challenges and drive impactful decisions. Through our program, you will develop essential competencies, including critical thinking and strategic reasoning, adaptability and innovative problem-solving, and a deep understanding of global economic trends and policies. With hands-on learning, expert faculty guidance, and industry exposure, you'll be equipped to make meaningful contributions to business, policy, and society. Embark on this transformative journey with us and unlock your potential to become a visionary economist and change maker.



**Prof. (Dr.) Debashis  
Bandyopadhyay**  
Pro-VC, KIIT DU

## Message from the Pro-VC

Dear Aspirants,

Join our dynamic community of economists, innovators, and leaders and unlock your potential to shape the future of economics! Our comprehensive program (B.Sc. in Economics & Data Analytics) combines foundational knowledge in economic theory, quantitative analysis, and global trends with hands-on experience, expert mentorship, and industry connections, empowering you to become a visionary economist and change maker.



**Prof. (Dr.)  
Sukanta Chandra Swain**  
Dean-Incharge, KSEC, KIIT DU

## Message from the Dean

Dear students

Welcome to our B.Sc. in Economics & Data Analytics program! We are excited to help you develop the skills and expertise to succeed in a data-driven world. We are committed to fostering a supportive community that encourages creativity, critical thinking, and collaboration. We look forward to seeing the impact you will make in this field and beyond.



# B.Sc. in Economics & Data Analytics

The Bachelor of Science (B.Sc.) Programme offered by Department of Economics; School of Economics & Commerce, KIIT Deemed to be University is a 4 years Undergraduate Programme in Economics & Data Analytics.

B.Sc. in Economics and Data Analytics program combines the rigor of economic theory with the power of data analytics to equip students with a unique skill set. This unique interdisciplinary program provides a comprehensive understanding of economic principles, data analysis, and data visualization techniques, enabling students to analyse complex economic issues, inform policy decisions, and drive business strategy. It will enable the learners better to understand the real-world applicability of economics with the help applied data analytics tools.

## Core Faculty Members

**Dr. Saswat Kishore Mishra**, (Ph.D., IIT Kharagpur): Associate Professor and Associate Dean, School of Economics and Commerce, KIIT DU.

**Dr. Sanjaya Kumar Lenka**, (Ph.D., IIT Indore): Assistant Professor of Economics, KIIT DU.

**Dr. Muhammed Najeeb K K**, (Ph.D., IIT Kharagpur): Assistant Professor of Economics, KIIT DU.

**Dr. Mrutunjay Das**, (Ph.D., KIIT University): Professor Mathematics, School of Applied Science, KIIT DU.

**Dr. Rabindra Kumar Barik**, (Ph.D., MNNIT, Allahabad): Associate Professor, School of Computer Application, KIIT DU.

**Dr. Siddharth Swarup Rautaray**, (Ph.D., IIT Allahabad): Associate Professor, School of Computer Engineering, KIIT DU.

## Objectives:

- Develop a strong foundation in economic theory and data analytics
- Cultivate data-driven decision-making skills
- Foster critical thinking, problem solving and communication abilities
- Prepare students for policy, business, research, and data science careers
- Encourage interdisciplinary approaches to economic problem solving

## Highlights:

- Interdisciplinary curriculum combining economics, data analytics, and policy
- Hands-on training in data analysis software (Python, R, Tableau, Power BI)
- Real-world application through case studies, projects, and internships
- Expert faculty with industry and research experience
- Collaborative learning environment

## Course Structure

Semester I	Semester II	Semester III	Semester IV
Microeconomics-I	Macroeconomics-I	Mathematical Economics-I	Econometrics-II
Fundamentals of Data Structures	Introduction to Programming	Probability and Statistics	Mathematical Economics-II
Society, Science and Technology	Introduction to Internet of Things	Econometrics-I	International Economics
Professional Communication	English	Introduction to Programming	Introduction to Data Visualization
Statistics for Social Sciences	Foreign Language/MIL	Algorithm Design	Machine Learning for Data Analytics-I
Understanding India	Thinking Perspective	Artificial Intelligence	Scientific and Technical Writing
Computer Application and Data Management	Environmental Studies	Machine learning	Universal Human Value
Semester V	Semester VI	Semester VII	Semester VIII
Public Economics and Finance	Financial Institutions and Markets	Research Methodology-II	Indian Banking and Insurance
Development Economics-I	Industrial Economics	Monetary Economics	Cyber Security
Research Methodology-I	Development Economics-II	Fintech	Energy and Resource Economics
Blockchains and Digital Assets	Game Theory	Analysis and Forecasting of Time Series	Entrepreneurship and Business Development Techniques
Machine Learning for Data Analytics-II	Big Data Computing-I	Computational Modelling	Database Management System (DBMS)
AI and Business Intelligence Tools - II	Bayesian Data Analysis	AI and Business Intelligence Tools-I	Project
ICT and Spreadsheet Application in Social Sciences	Deep Learning and Computer Vision		

## Career Path

- Data Analyst/Economist
- Policy Research/Analyst
- Business Journalist/Financial Analyst
- Academic/Researcher
- Data Scientist (Economics Related Fields)

## Eligibility Criteria as follows:

- Aggregate of 50% marks at the Intermediate/Higher-Secondary (10+2) level from any recognized board in India
- Mandatory to have studied Basic Mathematics at the Intermediate/Higher-Secondary (10+2) level



## Admission Process as follows:

The admission process for the Bachelor of Science in Economics & Data Analytics (BSEDA) program will consist of two stages:

### Stage 1: KIITEE 2025 Entrance Examination

- Applicants must appear for the Kalinga Institute of Industrial Technology Entrance Examination (KIITEE) 2025, a computer-based test that will evaluate candidates' aptitude in economics and elementary mathematics

### Stage 2: Personal Interview

- Shortlisted candidates based on their KIITEE 2025 performance will be invited for a personal interview. The interview aims to assess communication skills, critical thinking & problem-solving abilities, passion for economics & data analytics, and career goals & motivation
- The personal interview will be conducted in a hybrid mode (online/offline)

The final selection will be based on KIITEE 2025 score (60% weightage) and Personal interview performance (40% weightage).

## Application Procedure

Applicants must apply online at <http://kiitee.ac.in>. Instructions for submitting the online application form can be found at <https://kiitee.kiit.ac.in/application-procedure/>.

### Semester-wise Fees

₹ 96000 per Semester



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## Contact Details:

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