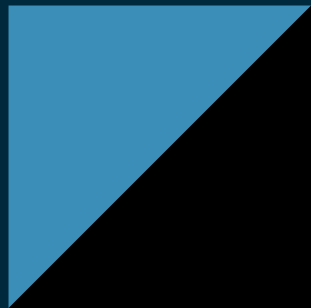# EXPLORE

Pre-College

PRE-COLLEGE

1st Semester

2nd Semester

PRE-COLLEGE PROGRAM

1ST SEMESTER

- Moral, Ethical and Social Responsibility
- Diversity and Global Citizenship
- User Experience Design and Development
- Leadership and Teamwork
- Interpersonal Communication
- Linear Algebra
- World Literature
- Calculus 1
- User Experience Design and Developement

2ND SEMESTER

- Environmental Ethics
- Positive Balance and Mental Health
- Communication of UI/UX & People
- Writing and Reasoning
- Statistics with Software Tools
- Design Thinking Process
- Reading and Writing Composition

EXPLORE

**Bachelor's Degree
+
Dual Degree**

BACHELOR'S DEGREE + DUAL DEGREE

FUTURE SOCIETY AND COMPETENCY

AREA	COURSE TITLE	CREDIT
Ethics and Justice	• Moral, Ethical and Social Responsibility • Environmental Ethics • Positive Balance and Mental Health • Diversity and Global Citizenship	3 credits each
Human And Digital Interface	• Communication of UI/UX & People • User Experience Design and Development • Principle of Art & Design	3 credits each

COMMUNICATION AND COLLABORATION

AREA	COURSE TITLE	CREDIT
Communication and Collaboration	• Interpersonal Communication • Leadership and Teamwork • Communication by Digital Tools • Writing and Reasoning • Reading and Writing Composition	3 credits each

CREATIVE/DESIGN THINKING, ANALYTICS

AREA	COURSE TITLE	CREDIT
Analytics with Math	• Statistics with SW Tools • Linear Algebra	3 credits each
Design & planning for work	• Design Thinking Process	3
Define problem and Finding Solution in workplace	• Consulting Process I • Consulting Process II	3 credits each
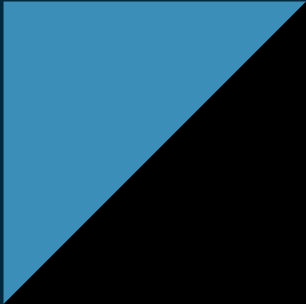
SUMMER OR WINTER SESSION (OPTIONAL)

AREA	COURSE TITLE	CREDIT
Pre-requisite core courses for specialization	• Calculus 1 • Calculus 2 • Financial Accounting • Introduction to Financial Management • Investment Theory • World History • Introduction to World Literature	3 credits each

OPTION 1: BUSINESS AND SOCIAL SCIENCE

AREA	COURSE TITLE	CREDIT
Pre-requisite core courses for specialization	• Macroeconomics • Microeconomics • Introduction to Accounting • Principles of Marketing • People and Organization	3 credits each

OPTION 2: SOFTWARE & IT

AREA	COURSE TITLE	CREDIT
Pre-requisite core courses for specialization	• Discrete Math and Mathematical Reasoning • Introduction to Algorithms & Data Structure • Introduction to Database • Computer Programming with Python • Object-oriented Design and Programming • Principles of Machine Learning • Algorithm Practice Using Software Tools • Formal Languages and Automata Theory	3 credits each

OPTION 3: SCIENCE AND ENGINEERING

AREA	COURSE TITLE	CREDIT
Pre-requisite core courses for specialization	• Introduction to Biology • Introduction to Chemistry • Introduction to Physics • Introduction to Psychology • Computer Organization and System • Software Engineering • Digital Logic Design • Data Communications & Network Fundamentals	3 credits each

OPTION 4: LIBERAL ARTS

AREA	COURSE TITLE	CREDIT
A field of study or academic discipline within a liberal arts curriculum, encompassing subjects such as humanities, social sciences, natural sciences, and arts.	• Experiencing Life to the Fullest • The Brain and Intelligence • Global Food Practices • The Dynamics of Human Interactions • Nations and Nationalism • AI and the Future of Humanity • Covid-19's Impact • The Environment at Risk • How to Help Others • Education's Effect on Life • Human Equality • The Value of Life • Leadership in the Modern Era • Philosophies of Life • Anxiety: Fear and Death • Love, Family and Relationships • Recognizing Identity • Structural, Symbolic, and Physical Violence Against Bodies • Animal Ethics • Trauma and Recovery: Understanding, Healing, and Growth • Competition and Cooperation in International Relations • International Institutions • Economic Growth in the Age of Competitive Gobalization • Technology and the Changing Face of War • Understanding and Responding to Global Risk • Human Security • Democracy and Technology • Economic Policy and Big Data • Progress, Economics and Advanced Technology • Capitalism, Power and Big Tech	3 credits each

EXPLORE

Master's Degree

MASTER'S DEGREE

The Philosophy of Living

Management: The Survival Strategy

Global Flows

Histories, and Practices of Development

Building Personal Resilience: Managing Anxiety and mental Health

Economics in International Affairs

Global Leadership via Arts-related World-Leader

International Cooperation

International Trade, Finance & Management

Global Citizenship & Sustainable Development

AREA	COURSE TITLE	CREDIT
The Philosophy of Living	• A Philosophy for Life • The Philosophy of Death • The Human struggle for Recognition • Why Gender? • On Freedom • Sociology of Love • My Story – Jane Goodall	3 credits each
Management: The Survival Strategy	• Behind the Success of Silicon Valley • The Rise and Fall of Big Tech • Living Well Until 100 • The Art of Fragrance • The Art of Circus • America's Addition to Big Business • Will Technology Save Us? • How to Survive in The Era of AI • From Inventor to Entrepreneur	
Global Flows	• The Multicultural Society is Here • The International Human Rights Odyssey • Ending Globalization : A Return to Our Past • Why the World Still Goes Hungry? • Warning on the Future of Humanity • Guns, Germs, and Steel: Revisited	
Histories, and Practices of Development	• The Weapons that Changed the World • The Two Faces of Humanity • The History of Popular Culture • Disability Studies : History, Rights, and Inclusion • The Near-Future Guidebook	
Building Personal Resilience: Managing Anxiety and mental Health	• How We Think the Way We Think • The theory of multiple intelligences • Sense-hacking • Evolution and Mental Disorders • Mental Health : Anxiety • Mental Health : Personality Disorder • Mental Health : Trauma • Mental Health : Depression	
Economics in International Affairs	• How We Fell • The World Economy Post-COVID • The Power of Money • The Psychology of Money • Why National Fail • Universal Basic Income: Antidote or Poison? • How to Save Humanity: The Economy of Life • Everything You need to know about Economics	
Global Leadership via Arts-related World-Leader	• The Journey to Architectural Greatness • Classical Music from Conductor's Stand • The Musings of a Novelist • The World in a Snapshot • The True Value of a Meal • Movies from the Future • The Paper Architect	

AREA	COURSE TITLE	CREDIT
International Cooperation	• What Make a True Leader? • Does Wealth Bring Democracy? • Conundrums of Democracy • The Realist's Guide to International Politics • The Rise and Fall of the Great Powers • Capitalism, Socialism, Disaster • U.S-China Hegemonic War • The Laws of The World: The United States	3 credits each
International Trade, Finance & Management	• U.S-China Hegemonic War • History of Free Trade • The Global Trade War • Platform Companies : Empires with Secrets • The Entrepreneurial State • What Makes a City Successful • Free Trade and the Enemies of Globalization	
Global Citizenship & Sustainable Development	• The World of Photojournalism • Unfolding the Myth of the Elite • Democracy Reboot • Sustainable Development • A Subhuman Existence • The Enigma of Inequality • A Declaration of Food Sovereignty • The Laws of the World: The United States	

EXPLORE

**Professional
Certificates**

PROFESSIONAL CERTIFICATE

CERTIFICATE PROGRAM

The Mini-MBA Certificate of Business Administration and Analytics

Certificate of Business Administration and Analytics

Certificate of General Management for Business Excellence

Certificate of Global Leadership and Innovation

Certificate of UI & UX Design

SHORT-TERM CERTIFICATE PROGRAM

BUSINESS MANAGEMENT
- Marketing and Analytics
- Financial Management & Analysis
- Advanced Financial Analytics: Investment
- Accounting
- Advanced Accounting
- Strategic Management for Transformational Growth
- Advanced Program in Strategic Project Management
- Business Analytics (PAMS)
- Digital Accounting (PAMS)
- Learn Six Sigma Greenbelt (PAMS)
- Smart Marketing (PAMS)

SOFTWARE, INFORMATION TECHNOLOGY, COMPUTER SCIENCE
- Data Science with Python Program
- Machine Learning
- Data Analysis and Visualization Foundations
- Advanced Data Science & Machine Learning
- AI in the Era of Digital Transformation (PAMS)
- Data Visualization (PAMS)

LEADERSHIP, INNOVATION
- Leadership and Teamwork
- Design Thinking and Innovation
- Leadership and People
- Management : HR & Organization
- Entrepreneurial Leadership (PAMS)

EBS GREAT MINDS LECTURE SERIES - INTERNATIONAL STUDIES
- Global Leadership via Art-related World-Leader
- International Cooperation
- International Trade, Finance & Management
- Global Citizenship & Sustainable Development
- Global Management
- Economics in International Affairs

CERTIFICATE PROGRAM

CERTIFICATE NAME	REQUIRES COURSES	DURATION (2H/W)
The Mini-MBA Certificate of Business Administration and Analytics	• Design Thinking Process • Financial Accounting • Investment Theory • Principles of Marketing • People and Organization • Consulting Process 1 • Consulting Process 2	15 weeks each
Certificate of Business Administration and Analytics	• Introduction to Accounting • Introduction to Financial Management • Principles of marketing • Leadership and Teamwork • Design Thinking Porcess	
Certificate of General Management for Business Excellence	• Design Thinking Process • People and Organization • Consulting Process 1 • Consulting Process 2	
Certificate of Global Leadership and Innovation	• Moral, Ethical and Social Responsibility • Diversity and Global Citizenship • Design Thinking Process • Leadership and Teamwork • People and Organization	
Certificate of UI & UX Design	• Communication of UI/UX and People • User Experience Design and Developement	

SHORT-TERM CERTIFICATE PROGRAM

BUSINESS MANAGEMENT

CERTIFICATE NAME	OVERVIEW	DURATION (2H/W)
Marketing and Analytics	• Gain a comprehensive understanding of fundamental marketing concepts • and principles. • Explore the role of marketing in business and society. • Learn to develop a comprehensive marketing plan. • Learn to analyze and interpret marketing data for decision-making. • Apply theoretical concepts to real-world marketing situations through Case Study.	8 weeks each
Financial Management & Analysis	• Learn how to apply financial models to the valuation of stocks and bonds, and corporate investments. • The course also lays foundation for more advanced finance courses such as corporate finance, investments or financial derivatives.	

Advanced Financial Analytics: Investment	• Understand and apply key investment concepts such as risk and return, diversification, and asset allocation. • Analyze and value various investment instruments, including stocks, bonds, and options. • Explore the principles of market efficiency and behavioral finance in investment decision-making. • Develop critical thinking and decision -making skills through real-world case studies and portfolio simulation.
Accounting	• Understand the financial accounting conceptual system, the basic structure of the accounting system, and accounting equation. • Learn accounting cycle processes such as identification of economic transactions, journalizing and posting, preparation of trial balance, and closing accounts. • Understand each major accounting subject of assets, liabilities, equity, revenue, and expenses. • Develop the ability to analyze Financial accounting information. • Understand the concept of accrual accounting.
Advanced Accounting	• Understand major elements of assets, liabilities, equity, revenue, and expenses. • Learn how to account for cost of goods sold, depreciation & amortization, shareholders' equity, and cashflows. • Understand how to interpret accounting information form financial statements. • Learn how to calculate and interpret major financial ratios. • Learn how to analyze financial statements.
Strategic Management for Transformational Growth	• Comprehensive understanding of consultancy and its practices. • Covers fundamentals and frameworks involved in the methodology and context of practical consulting project. • Learn about Strategy thinking, Financial Analysis, Consulting Methodology.
Advanced Program in Strategic Project Management	• Understand the basics of project management within a consulting context, including scoping, planning, execution, and monitoring of consulting projects. • Data Analysis and Interpretation: Learn how to gather, analyze, and interpret relevant data to make informed recommendations and decisions for clients. • Team Collaboration: Develop teamwork and collaboration skills necessary for working effectively with diverse teams, both within the consulting firm and alongside client personnel. • Case Studies and Practical Application: Engage in real-world case studies and practical simulations to apply consulting theories and frameworks in realistic scenarios, bridging theory with hands-on experience.

Business Analytics (PAMS)	• Learning to use data for problem solving, optimization and decision making through the essential data analytics methodologies, including descriptive and predictive analytics, as well as optimal solution selection strategies. • Analyzing real-world case studies using Python and Excel software packages. • Proposing business improvements based on effective and practical data analysis. • Learning to use big data effectively in reports Learning from, and interacting directly with, industry-based guest speaker.	15 weeks
Digital Accounting (PAMS)	• The mechanics of the digital economy • Accounting technology • Digital technologies in accounting • Ethical issues surrounding digital business and accounting • Developing accounting standards to keep up with dynamic change • Financial and fraud auditing • Government and public sector accounting • Managerial accounting • Sustainable development and environmental accounting	15 weeks (3h/w)
Learn Six Sigma Greenbelt (PAMS)	• Process focused view • Understanding Lean concepts & tools • Theories in quality management • Six Sigma concepts and tools • The Lean Six Sigma approach	15 weeks
Smart Marketing (PAMS)	• Learn the basic concepts of SMART marketing, and uses an integrated series of mini-examples to familiarize students with a digital mindset, essential to becoming a marketing scientist or researcher. • Setting goals • Operationalization and measurement • Prediction • Model specification • Numerical computation	8 weeks

SOFTWARE, INFORMATION TECHNOLOGY, COMPUTER SCIENCE

CERTIFICATE NAME	OVERVIEW	DURATION (2H/W)
Data Science with Python Program	• Become familiar and use essential Python language features. • Apply common techniques toward acquiring data from common data file formats. • Understand and apply the coder's mindset towards solving problems • and responding to errors. • Apply accepted style standards to produce professional-level code. • Develop a solid understanding of Python's strengths, the kinds of problems it is most used to solve, and the "Pythonic" way to solve them.	8 weeks

Machine Learning	• Develop theoretic and mathematic backgrounds for various machine learning algorithms. • Train and test the state-of-art machine learning algorithms for the real-life applications. • Practice hands-on CPU and GPU programing with Python language in Google Collaboratory platform. • Study various approaches to enhance the efficiency of machine learning processing.	8 weeks
Data Analysis and Visualization Foundations	• Introduction to Data Base • Data Visualization	8 weeks
Advanced Data Science & Machine Learning	• Object-oriented Design and Programming • Introduction to Algorithms & Data Structure • Introduction to Database • Principles of Machine Learning	15 weeks
AI in the Era of Digital Transformation (PAMS)	• Enable students to understand and take full advantage of the opportunities offered by the Fourth Industrial Revolution. • The technologies and concepts detailed in this course will determine the course of human progress and business development for the next generation. • The course culminates in the practical application of these concepts through an in-depth group assignment in which students work in cooperation with a real-world corporation to complete a professional business solution to an actual business brief, then present it to a panel of experts.	15 weeks
Data Visualization (PAMS)	• Understanding the history of data visualization. • Key design principles and techniques of visualizing data. • Developing an understanding of the fundamentals of communication and alignment around concepts required for effective data presentation. • Developing competency in the use of contemporary data visualization software. • Project-based opportunities identifying, understanding, analyzing, preparing, and presenting effective visualizations.	15 weeks (3h/w)

LEADERSHIP, INNOVATION

CERTIFICATE NAME	OVERVIEW	DURATION (2H/W)
Leadership and Teamwork	• Develop student knowledge of leadership and teamwork while developing a capacity to interpret and evaluate basic concepts of leadership. • Explore one's strengths, values, and ways of being as a leader and follower. • Understand the complexity of leadership in organizations that are made of many intersecting groups. • Recognize the nature of a changing environment and understand the need for adaptive skills with a strong sense of personal responsibility.	8 weeks

Design Thinking and Innovation	• Examine design thinking concepts and principles and to practice the methods, processes, and tools of design thinking. • Analyze the role of primary and secondary research in the discovery stage of design thinking. • Includes applying the design thinking approach and model to real world situations. • Using the design thinking process, innovative ideas can be developed and tested through a fast-repetitive cycle. • Develop a strong understanding of the design process and how it can be applied in a variety of business settings.	8 weeks
Leadership and People Management : HR & Organization	• Define the causes and consequences of behavioral actions within organizations. • Apply relevant contemporary theories, concepts and models in order to analyze organizational environments, cases and issues. • Establish practical organizational workforce plans and practices, which aim to solve problems in alignment with organizational goals and objectives. • Recognize the significant importance of human resources management to achieve strategic goals • Understand the impact and value of workforce diversity and globalization in modern society • Demonstrate comprehensive understanding of the strategic importance of HR practices.	8 weeks
Entrepreneurial Leadership (PAMS)	• Acquire the essential fundamentals of management, in three key modules, as imagined by the most widely-known and influential management thinker of our age, Peter Drucker. • Learn to manage yourself. • Learn to manage a team. • Learn to manage for opportunities outside of organizational boundaries. • Recognize and utilize innovation. • Hone your critical thinking in group discussions with shared learning outcomes	15 weeks (3h/w)

EBS GREAT MINDS LECTURE SERIES - INTERNATIONAL STUDIES

CERTIFICATE NAME	REQUIRED COURSES	DURATION (2H/W)
Global Leadership via Art-related World-Leader	• The Journey to Architectural Greatness • Classical Music from Conductor's Stand • The Musings of a Novelist • The World in a Snapshot • The True Value of a Meal • Movies from the Future • The Paper Architect	8 weeks

International Cooperation	• The World of Photojournalism • Unfolding the Myth of the Elite • Democracy Reboot • Sustainable Development • A Subhuman Existence • The Enigma of Inequality • A Declaration of Food Sovereignty	
International Trade, Finance & Management	• U.S-China Hegemonic War • History of Free Trade • The Global Trade War • Platform Companies: Empires with Secrets • The Entrepreneurial State • What Makes a City Successful • Free Trade and the Enemies of Globalization	
Global Citizenship & Sustainable Development	• The World of Photojournalism • Unfolding the Myth of the Elite • Democracy Reboot • Sustainable Development • A Subhuman Existence • The Enigma of Inequality • A Declaration of Food Sovereignty	8 weeks each
Global Management	• Behind the Success of Silicon Valley • The Rise and Fall of Big Tech • Living Well Until 100 • The Art of Fragrance • The Art of Circus • America's Addition to Big Business • Will Technology Save Us? • How to Survive in the Era of AI • From Inventor to Entrepreneur	
Economics in International Affairs	• How We Fell • The World Economy Post-COVID • The Power of Money • The Psychology of Money • Why Nations Fail • Universal Basic Income: Antidote or Poison? • How to Save Humanity: The Economy of Life • Everything You need to know about Economics	