CIRCULAR ECONOMY, GREEN GROWTH AND RESOURCE EFFICIENCY COURSE

Introduction

This Course in Circular Economy, Green Growth and Resource Efficiency equips senior executives, policymakers, sustainability professionals, and organizational leaders with the strategic knowledge and practical tools required to integrate circular economy principles into business strategy, operations, supply chains, investment decisions, and organizational transformation. The transition from a traditional "take–make–dispose" economic model to a circular economy has become a strategic priority for governments, businesses, and development institutions seeking sustainable economic growth, environmental protection, and long-term competitiveness. Growing resource scarcity, climate change, increasing waste generation, supply chain disruptions, and stricter environmental regulations are compelling organizations to rethink how products are designed, resources are utilized, waste is managed, and value is created. The course explores how organizations can maximize resource productivity, minimize waste, promote sustainable production and consumption, develop innovative green business models, and support the transition towards a low-carbon, resource-efficient, and regenerative economy. Participants will examine international best practices in circular economy implementation, green growth strategies, eco-design, industrial symbiosis, sustainable procurement, waste valorization, resource optimization, and sustainable value chain management. The programme aligns with internationally recognized frameworks including the United Nations Sustainable Development Goals (SDGs), the European Union Circular Economy Action Plan, ISO 14001 Environmental Management Systems, ISO 20400 Sustainable Procurement, ISO 59000 Circular Economy Standards, and other global sustainability and resource efficiency frameworks.

Course Objectives

- Understand the principles and strategic value of the circular economy.
- Integrate circular economy concepts into organizational strategy and operations.
- Improve resource efficiency and sustainable production systems.
- Design innovative circular business models and value chains.
- Promote sustainable procurement and responsible consumption.
- Develop effective waste reduction and resource recovery strategies.
- Strengthen green growth and environmental sustainability initiatives.
- Enhance supply chain resilience through circular practices.
- Measure circular economy performance and organizational impact.
- Lead enterprise-wide transformation towards a resource-efficient and regenerative economy.

Course Modules

> Module 1: Foundations of Circular Economy and Green Growth
- Principles of the circular economy
- Green growth and sustainable development
- Circular economy policy and global trends
- Business case for circular transformation

> Module 2: Circular Business Models and Sustainable Innovation
- Circular business model design
- Product life-cycle thinking
- Eco-design and sustainable product innovation
- Creating value through circular innovation

> Module 3: Resource Efficiency and Sustainable Production
- Resource productivity and efficiency
- Cleaner production techniques
- Sustainable manufacturing systems
- Energy and water efficiency strategies

> Module 4: Waste Management and Resource Recovery
- Waste hierarchy and waste minimization
- Recycling, reuse, and remanufacturing
- Industrial symbiosis and by-product utilization
- Resource recovery and waste valorization

> Module 5: Sustainable Supply Chains and Green Procurement
- Sustainable supply chain management
- Circular procurement strategies
- Supplier sustainability assessment
- Responsible sourcing and logistics

> Module 6: Green Growth, Climate Action & Environmental Stewardship
- Green economy principles
- Low-carbon business strategies
- Climate-smart operations
- Environmental stewardship and biodiversity conservation

> Module 7: Circular Economy Finance and Investment
- Financing circular economy initiatives
- Green investment opportunities
- Cost-benefit analysis of circular projects
- Measuring financial returns from sustainability

> Module 8: Measuring Circular Economy Performance
- Circular economy performance indicators
- Resource efficiency metrics
- ESG and sustainability reporting
- Monitoring and continuous improvement

> Module 9: Digital Technologies and Circular Transformation
- Digital technologies supporting circular economy
- Industry 4.0 and smart manufacturing
- Data analytics for resource optimization
- Innovation for circular business transformation

> Module 10: Developing a Circular Economy Roadmap
- Organizational circular economy assessment
- Strategic implementation planning
- Change management for circular transformation
- Executive action planning and continuous improvement