Department : B.VOC SUSTAINABLE ENERGY MANAGEMENT

Name of the Faculty : Dr. P.VIJAYALAKSHMI

Course Title : ENTREPRENEURIAL INITIATIVES

Course Code : 16VS/VM/EI66

Shift : II

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov 18 – 25, 2024 (Day Order 1-6)	1.1 Need for Entrepreneurship Education- Entrepreneurship and Entrepreneur 1.2 Characteristics and importance of Entrepreneurship and Entrepreneur: Definition and Concept	Board and Chalk	Fundamentals of Entrepreneurship by Sangram Keshari Mohanty	Group Discussion
Nov 26-Dec3,2024 (Day Order 1 to 6)	1.3 Classification and Functions of Entrepreneurs 1.4 Studies on Indian Entrepreneurship Model.	Board and Chalk	Fundamentals of Entrepreneurship by Sangram Keshari Mohanty	Group Activity
Dec 4-11, 2024 (Day Order 1 to 6)	2.1 Innovation and Initiation of Entrepreneurial Venture – Desire, Decision and Formulation.	PPT Presentation	Fundamentals of Entrepreneurship by Sangram Keshari Mohanty	Project
Dec 12-19, 2024 (Day Order 1 to 6)	2.2 Study of Entry Barriers to Entrepreneurship – Steps to overcome the barriers	Board and Chalk	Fundamentals of Entrepreneurship by Sangram Keshari Mohanty	Quiz
Dec 20, 2024 (Day Order 1)	2.3 Case Studies	PPT Presentation	Entrepreneurship Case studies with respect to Indian Scenario by Joshi, Patel and D'Souza	Case Study Analysis
Jan 3 – 7, 2025 (Day Order 3 to 6)	2.3 Case Studies	PPT Presentation	Entrepreneurship Case studies with respect to Indian Scenario by Joshi, Patel and D'Souza	**Case Study Analysis -15 marks- Units 2.3** (Component 1)
Jan 8 – 17, 2024 (Day Order 1 to 6)	3.1 Empowerment of Women through enterprise	Board and Chalk	Entrepreneurship Motivation, Performance and Rewards by Anand Saxena	Assignment
Jan 18 - 23, 2025	**C.A. Test – I**			

Jan 24 - 30, 2025 (Day Order 1 to 6)	3.2 Factors governing Women Entrepreneurship	Board and Chalk	Entrepreneurship Motivation, Performance and Rewards by Anand Saxena	Seminar
Feb 3-8, 2025 (Day Order 1 to 6)	3.3 Schemes for Women Entrepreneurs	Board and Chalk	Entrepreneurship Motivation, Performance and Rewards by Anand Saxena	**Collage Making -15 marks-Unit 3.3** (Component 2)
Feb 10– 18, 2025 (Day Order 1 to 4)	4.1 Identification and evaluation of products based on idea, market demand, competition, availability of raw material and production feasibility	PPT Presentation	Entrepreneurship Motivation, Performance and Rewards by Anand Saxena	Group Activity
Feb 19- 26, 2025 (Day Order 1-6)	4.2 Financial and Business Collaboration – Business Project Proposal – Steps involved in Planning and Processing, structure of the Project report	PPT Presentation	Entrepreneurship Motivation, Performance and Rewards by Anand Saxena	Innovative Product Making
Feb27- Mar6,2025 (Day Order 1 to 6)	4.3 Business idea generation, Challenges, Sales promotion techniques, Scaling up from pilot plant/ incubator stage	PPT Presentation	Entrepreneurship Motivation, Performance and Rewards by Anand Saxena	Group Activity
Mar 7 – 11, 2025 (Day Order 1 to 3)	4.4 Preparation of Business Project Proposal	PPT Presentation	Entrepreneurship Motivation, Performance and Rewards by Anand Saxena	**Proposal Writing Report-20 marks-Unit 4.4** (Component 3)
Mar 12 –17, 2025	**C.A. Test – II**			
Mar 18 – 20, 2025 (Day 4 to 6)	5.1 Case studies on Indian Entrepreneurs	PPT Presentation	Entrepreneurship Case studies with respect to Indian Scenario by Joshi	Case Study Analysis
Mar 21 - 28, 2025 (Day Order 1 to 6)	5.2 Case studies of Women Entrepreneurs	PPT Presentation	Entrepreneurship Case studies with respect to Indian Scenario by Joshi	Case Study Analysis
Mar29-Apr3, 2025 (Day Order 1 to 3)	5.3. Industrial Visit	Board and Chalk	Fundamentals of Entrepreneurship by Sangram Keshari Mohanty	Group Activity
	REVISION			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule: November 2024 – April 2025

Department	: B.VOC SUSTAINABLE ENERGY MANAGEMENT
Name/s of the Faculty	: DR. R. VINCENT FEMILAA AND DR.P. ANTO CHRISTY
Course Title	: GREEN MANAGEMENT-URBAN AND RURAL SCENARIO
Course Code	: 16VS/VM/GM66
Shift	: II

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov 18 – 25, 2024 (Day Order 1-6)	**Green infrastructure for Sustainable Development:** 1.1 Introduction-Background-The problem-Solution- Social benefits	Board and Chalk	Lisa Gartland, Heat Islands: Understanding and Mitigating Heat in Urban Areas, UK, Earth Scan, 2010	Group discussion
	3.2 Green supply Chain Management	Board and Chalk	Jacquelyn A. Ottman , The new rules of green marketing: Strategies, Tools and Inspiration for sustainable	Team skit
Nov 26- Dec 3, 2024 (Day Order 1 to 6)	1.2 Types of green infrastructure- Infiltration system-Green roofs	Board and Chalk	Lisa Gartland, Heat Islands: Understanding and Mitigating Heat in Urban Areas, UK, Earth Scan, 2010	Seminar
	3.3 Eco Designing, Eco - labeling.	Board and Chalk	Jacquelyn A. Ottman , The new rules of green marketing: Strategies, Tools and Inspiration for sustainable branding, USA, Berrett-Koehler Publishers, 2011	Product making

Dec 4-11, 2024 (Day Order 1 to 6)	1.2 Rainwater harvesting-downspout disconnection-Tree plantation	Powerpoint presentation	Lisa Gartland, Heat Islands: Understanding and Mitigating Heat in Urban Areas, UK, Earth Scan, 2010	Assignment
	Urban Scenario: 4.1 Urban planning for sustainable development	Board and Chalk	D. Salvador Rueda Palenzuela, The Green Book on Urban and Local Sustainability in the Information Age, UK, 2012 (Online Source)	Report writing
Dec 12-19, 2024 (Day Order 1 to 6)	1.3 Microeconomic aspects of green infrastructure	Board and Chalk	Lisa Gartland, Heat Islands: Understanding and Mitigating Heat in Urban Areas, UK, Earth Scan, 2010	**Case study-15 marks-Unit 1.3** (Component 1)
	4.2 Importance of green space in cities for promoting healthy living and wellbeing	Board and Chalk	D. Salvador Rueda Palenzuela, The Green Book on Urban and Local Sustainability in the Information	
Dec 20, 2024 (Day Order 1)	**Microclimate Regulation:** 2.1 Microclimate-Introduction-Heat Island	Board and Chalk	Ed McMahon and Mark A. Benedict,Green Infrastructure: Linking Landscapes and Communities, USA, The Island Press, 2006	Seminar
	4.2 Importance of green space in cities for promoting healthy living and wellbeing	Board and Chalk	D. Salvador Rueda Palenzuela, The Green Book on Urban and Local Sustainability in the Information Age, UK, 2012 (Online Source)	Case study

Jan 3 – 7, 2025 (Day Order 3 to 6)	2.1 Heat Island effect-Definition-Impacts	Board and Chalk	Ed McMahon and Mark A. Benedict,Green Infrastructure: Linking Landscapes and Communities, USA, The Island Press, 2006	Chart making
	4.3 Types of urban open spaces	Board and Chalk	D. Salvador Rueda Palenzuela, The Green Book on Urban and Local Sustainability in the Information Age, UK, 2012 (Online Source)	Assignment
Jan 8 – 17, 2024 (Day Order 1 to 6)	2.2 Cooling strategies-The role of communities and public	Board and Chalk	Ed McMahon and Mark A. Benedict,Green Infrastructure: Linking Landscapes and Communities, USA, The Island Press, 2006	**Powerpoint presentation-15 marks-Unit 2.2** (Component 2)
	4.3 Urban forest-Drawbacks of Urban green	Board and Chalk	D. Salvador Rueda Palenzuela, The Green Book on Urban and Local	
Jan 18 - 23, 2025	**C.A. Test – I**			
Jan 24 - 30, 2025 (Day Order 1 to 6)	2.2 Effects of trees on local outdoor microclimate	Powerpoint presentation	Ed McMahon and Mark A. Benedict,Green Infrastructure: Linking Landscapes and Communities, USA, The Island Press, 2006	Powerpoint presentation
	Rural scenario: 5.1 Managing rural area-arable land	Board and Chalk	Lisa Gartland, Heat Islands: Understanding and Mitigating Heat in Urban Areas, UK, Earth Scan, 2010	Quiz

Feb 3-8, 2025 (Day Order 1 to 6)	2.3 The properties and potential of different tree species on microclimate regulation	Board and Chalk	Ed McMahon and Mark A. Benedict,Green Infrastructure: Linking Landscapes and Communities, USA, The Island Press, 2006	Group discussion
	5.1 Forests-Inland waters	Board and Chalk	Jacquelyn A. Ottman , The new rules of green marketing: Strategies, Tools and Inspiration for sustainable branding, USA, Berrett-Koehler Publishers, 2011	Report writing
Feb 10– 18, 2025 (Day Order 1 to 4)	2.3 The properties and potential of different tree species on microclimate regulation	Board and Chalk	Ed McMahon and Mark A. Benedict,Green Infrastructure: Linking Landscapes and Communities, USA, The Island Press, 2006	Group discussion
	5.2 Participatory watershed development in India	Board and Chalk	D. Salvador Rueda Palenzuela, The Green Book on Urban and Local Sustainability in the Information Age, UK, 2012 (Online Source)	Powerpoint presentation
Feb 19- 26, 2025 (Day Order 1-6)	**Green Marketing:** 3.1 Emergence of new Environmental market	Powerpoint presentation	Jacquelyn A. Ottman , The new rules of green marketing: Strategies, Tools and Inspiration for sustainable branding, USA, Berrett-Koehler Publishers, 2011	Team presentation
	5.2 Adapting to climate change	Powerpoint presentation	D. Salvador Rueda Palenzuela, The Green Book on Urban and Local Sustainability in the Information Age, UK, 2012 (Online Source)	Group skit

Feb 27- Mar 6, 2025 (Day Order 1 to 6)	3.1 Green marketing	Board and Chalk	Jacquelyn A. Ottman, The new rules of green marketing: Strategies, Tools and Inspiration for sustainable branding, USA, Berrett-Koehler Publishers, 2011	Adzap
	5.2 Adapting to climate change	Powerpoint presentation	D. Salvador Rueda Palenzuela, The Green Book on Urban and Local Sustainability in the Information Age, UK, 2012 (Online Source)	Group skit
Mar 7 – 11, 2025 (Day Order 1 to 3)	3.2 Environmental strategy	Board and Chalk	Jacquelyn A. Ottman , The new rules of green marketing: Strategies, Tools and Inspiration for sustainable branding, USA, Berrett-Koehler Publishers, 2011	Team activity
	5.3 Climate resilient buildings.	Board and Chalk	Lisa Gartland, Heat Islands: Understanding and Mitigating Heat in Urban Areas, UK, Earth Scan, 2010	Powerpoint presentation
Mar 12 –17, 2025	**C.A. Test – II**			
Mar 18 – 20, 2025 (Day 4 to 6)	3.2 Competitive advantage	Board and Chalk	Jacquelyn A. Ottman , The new rules of green marketing: Strategies, Tools and Inspiration for sustainable branding, USA, Berrett-Koehler Publishers, 2011	**Adzap-20 marks-Unit 3.2** (Component 3)
	5.3 Climate resilient buildings.	Powerpoint presentation	Lisa Gartland, Heat Islands: Understanding and Mitigating Heat in Urban Areas, UK, Earth Scan, 2010	Powerpoint presentation

Mar 21 - 28, 2025 (Day Order 1 to 6)	Revision of units 1,3 and 4			
Mar 29- April 3, 2025 (Day Order 1 to 3)	Revision of units 2 and 5			
	REVISION			

Course Schedule: November 2024 – April 2025

Department	: B.VOC SUSTAINABLE ENERGY MANAGEMENT
Name/s of the Faculty	: DR. R. VINCENT FEMILAA AND DR.P. ANTO CHRISTY
Course Title	: ENERGY FOR SMART CITIES
Course Code	: 16VS/VM/SC66
Shift	: II

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov 18 – 25, 2024 (Day Order 1-6)	**Introduction to Energy demands, Challenges and Options** 1.1 Energy demand, Energy scenarios of conventional cities	PPT	Woodrow Clark II and Grant Cooke, Smart Green Cities: Toward a Carbon Neutral World, NewYork, Routledge, 2016	Quiz
	3.3 Introduction to Technologies for a Smart city: Smart energy	Board and Chalk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating,Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	Debate
Nov 26- Dec 3, 2024 (Day Order 1 to 6)	1.1 Consequences 1.2. Alternative resources,	PPT	Woodrow Clark II and Grant Cooke, Smart Green Cities: Toward a Carbon Neutral World, NewYork, Routledge, 2016	Group discussion
	3.3 Smart transportation,Smart data, Smart community infrastructure	Board and chalk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating,Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	Mini project

Dec 4-11, 2024 (Day Order 1 to 6)	1.2 Green approach to meet Energy demand	PPT	Woodrow Clark II and Grant Cooke, Smart Green Cities: Toward a Carbon Neutral World, NewYork, Routledge, 2016	**Assignment-15 marks-Unit 1.2** (Component 1)
	3.3 Smart mobility, Smart IoT devices	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating,Smart Cities: Creating Smart Cities, USA, IGI Global,	Discussion on current scenario
Dec 12-19, 2024 (Day Order 1 to 6)	1.3 Energy Strategy 2020	PPT and lecture	Woodrow Clark II and Grant Cooke, Smart Green Cities: Toward a Carbon Neutral World, NewYork, Routledge, 2016	Quiz
	Smart Cities Planning and Development 4.1 Smart Cities – Global standards and performance Benchmarks	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating,Smart Cities: Creating Smart Cities, USA, IGI Global,	Role play
Dec 20, 2024 (Day Order 1)	**Introduction to City Planning and Energy Components** 2.1. City Planning-Concepts-Smart approaches to city planning	Board and talk	Woodrow Clark II and Grant Cooke, Smart Green Cities: Toward a Carbon Neutral World, NewYork, Routledge, 2016	Assignment
	4.1 performance Benchmarks -Adoption of Standards in Smart Cities	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for	Report writing

Jan 3 – 7, 2025 (Day Order 3 to 6)	2.1 Design, Patrick Geddes planning concept -Forecasting Urban Futures	Board and talk	Woodrow Clark II and Grant Cooke, Smart Green Cities: Toward a Carbon Neutral World, NewYork, Routledge, 2016	Case study
	4.1 India ―100 Smart Cities‖ Policy and Mission	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating,Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	Journal report writing
Jan 8 – 17, 2024 (Day Order 1 to 6)	2.1 Proofing intelligent System	PPT	Woodrow Clark II and Grant Cooke, Smart Green Cities: Toward a Carbon Neutral World, NewYork, Routledge, 2016	Quiz
	4.1 India ―100 Smart Cities‖ Policy and Mission	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating,Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	Assignment writing
Jan 18 - 23, 2025	**C.A. Test – I**			
Jan 24 - 30, 2025 (Day Order 1 to 6)	2.2 Solar options, Meeting energy demand through direct and indirect solar resources	PPT	Rocco Papa and Romano Fistola, Smart Energy in the Smart City: Urban Planning for a Sustainable Future, Italy, Springer 2016	Question and answer session
	4.2 Financing Smart Cities Development	Board and talk	Ercoskun and Ozge Yalciner,	**Report writing- 20 marks-Unit**

			Green and Ecological Technologies for Urban Planning: Creating Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	**4.2** (Component 2)
Feb 3-8, 2025 (Day Order 1 to 6)	2.2 Solar options, Meeting energy demand through direct and indirect solar resources, PV and thermal; Singular or hybrid.	PPT	Rocco Papa and Romano Fistola, Smart Energy in the Smart City: Urban Planning for a Sustainable Future, Italy, Springer 2016	Quiz
	4.2 Governance of Smart Cities	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	Assignment
Feb 10– 18, 2025 (Day Order 1 to 4)	**Understanding Smart Cities** 3.1 Definition of Smart City	Board and talk	Rocco Papa and Romano Fistola, Smart Energy in the Smart City: Urban Planning for a Sustainable Future, Italy, Springer 2016	Group discussion
	4.3 Structural concept, Specific applications	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	Assignment

Feb 19- 26, 2025 (Day Order 1-6)	3.1 Dimensions of Smart Cities, Global Experience of Smart Cities	PPT	Rocco Papa and Romano Fistola, Smart Energy in the Smart City: Urban Planning for a Sustainable Future, Italy, Springer 2016	Report writing
	4.3 Perspective in Smart Cities, Conceptual Application in process control and stabilization	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	Case study
Feb 27- Mar 6, 2025 (Day Order 1 to 6)	3.1 Essential Elements of Smart city-Matching demand and supply of energy in typical Smart city	PPT	Rocco Papa and Romano Fistola, Smart Energy in the Smart City: Urban Planning for a Sustainable Future, Italy, Springer 2016	Quiz
	The Downside of Intelligent Cities present and in Future 5.1. Flaws in smart city infrastructure — centralized vs. distributed/mesh digital infrastructure	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	**Role play-15 marks-Unit 5.1** (Component 3)
Mar 7 – 11, 2025 (Day Order 1 to 3)	5.1 ―Normal accidents‖ in complex technical systems — vulnerability of cellular networks during urban crises	Board and talk	Rocco Papa and Romano Fistola, Smart Energy in the Smart City: Urban Planning for a Sustainable Future, Italy, Springer 2016	Group Discussion
	3.2 Conventional vs. Smart City	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological	Assignment

			Technologies for Urban Planning: Creating Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	
Mar 12 –17, 2025	**C.A. Test – II**			
Mar 18 – 20, 2025 (Day 4 to 6)	3.2 Conventional vs. Smart City	PPT	Rocco Papa and Romano Fistola, Smart Energy in the Smart City: Urban Planning for a Sustainable Future, Italy, Springer 2016	Group Discussion
	5.2 Drive green in Smart city, FEV, HEV.	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	Assignment
Mar 21 - 28, 2025 (Day Order 1 to 6)	2.1 Proofing intelligent System	PPT	Woodrow Clark II and Grant Cooke, Smart Green Cities: Toward a Carbon Neutral World, NewYork, Routledge, 2016	Quiz
	4.1 India ―100 Smart Cities‖ Policy and Mission	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating,Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	Assignment
Mar 29- April 3, 2025 (Day Order 1 to 3)	5.3 Application of solar in mobility	PPT	Rocco Papa and Romano Fistola, Smart Energy in the Smart City:	Group Discussion

			Urban Planning for a Sustainable Future, Italy, Springer 2016	
	4.2 Governance of Smart Cities	Board and talk	Ercoskun and Ozge Yalciner, Green and Ecological Technologies for Urban Planning: Creating Smart Cities: Creating Smart Cities, USA, IGI Global, 2011	Role play
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