

SVKM's Mithibai College of Arts, Chauhan Institute of Science & Amrutben  
Jivanlal College of Commerce & Economics (AUTONOMOUS)



Shri Vile Parle Kelavani Mandal's  
**IITHIBAI COLLEGE OF ARTS, CHAUHAN INSTITUTE OF SCIENCE & AMRUTBE  
JIVANLAL COLLEGE OF COMMERCE AND ECONOMICS (AUTONOMOUS)**  
*NAAC Reaccredited 'A' grade, CGPA: 3.57 (February 2016),  
Granted under RUSA, FIST-DST & -Star College Scheme of DBT, Government of India,  
Best College (2016-17), University of Mumbai*

Affiliated to the  
**UNIVERSITY OF MUMBAI**

**Program: Introduction to Business Environment**

**Course: F.Y.B. Com.**

**Semester I**

**Choice Based Credit System (CBCS) with effect from the  
Academic year 2021-22**

## **BACHELOR OF COMMERCE**

For completion of the B.Com. program, a learner is required to complete six semesters over three years for the completion of the program. The broad program outcomes are:

- Providing a strong knowledge base
- Develop skills to apply the knowledge in functional areas
- Enhance employability of the learner by making her/him industry ready
- Develop good communication and social skills
- To make the learner a responsible citizen

The **Program Outcomes (POs)** i.e., the outcomes that learners of all undergraduate degree programs will be able to achieve at the time of graduation, include:

**PO 1: Academic Progression:** The learner will be able to make smooth progression to professional courses like Chartered Accountancy, Master of Business Administration, Company Secretary and Law, as well as academic programmes like Master in Commerce and Economics.

**PO 2: Employability:** The learner will be ready to enter the corporate sector in the areas of finance, marketing and sales, travel and tourism and other related areas.

**PO 3: Effective Communication:** The learner will possess good communication skills and will be able to effectively communicate through conventional and electronic media.

**PO 4: Entrepreneurial Ability:** The learner will have fundamental knowledge and skills in the area of entrepreneurship and will be able to venture into entrepreneurship as a career option if she/he chooses to.

**PO 5: Social Skills:** The learner will be able to meaningfully engage in interpersonal and group social interactions through discussions, opinion formation and negotiations. The learner will be able to manage people and organize events and activities with high degree of proficiency.

**PO 6: Environmental Awareness:** The learners will be aware of the environmental and ecological challenges faced by society and will have knowledge about environmental management. Learners will be familiar with the significance of environmental ethics in relation to business entities.

**PO 7: Good Citizens:** The learner will have exposure to societal problems and will be empathetic to them. She/he will be informed and aware about the rights and duties of citizens and will be ready to engage in meaningful civic life.

**PO 8: Analytical and Critical Ability:** The learner will be able to critically analyse problems and situations from wide ranging areas like business and corporate sector, economy, society, ecology and environment.

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**PO 9: Responsible and Effective Use of ICT:** The learner will be aware of how to use technology for enhancing learning. She/he will be aware of how to make responsible use of technology and social media in communication, discussion forums, forming meaningful communities, participating in social activities and dissemination of knowledge.

**Program Specific Outcomes (PSO's)**

On completion of the B.Com., the learners should be enriched with knowledge and be able to-

**PSO1:** The learners will be enriched with the knowledge of business environment.

**PSO2:** The learners will become familiar with the internal, external environment and its components.

**PSO3:** The learners will be able to undertake analysis of business environment.

**PSO4:** The learners will also explore various strategies for business.

**Preamble**

Under Autonomy, the college aims to develop curriculum that enables the learners to learn the needs of the market. The Commerce curriculum aims at overall enhancement of learning experience of the learners pursuing the Three Year Integrated Program, Bachelor of Commerce. The evaluation of students' progress will be based on internal assessment and semester end examination.

**Evaluation Pattern**

The performance of the learner will be evaluated in two components. The first component will be a Continuous Assessment with a weightage of 25% of total marks per course. The second component will be a Semester end Examination with a weightage of 75% of the total marks per course. The allocation of marks for the Continuous Assessment and Semester end Examinations is as shown below:

**a) Details of Continuous Assessment (CA)**

25% of the total marks per course:

<b>Continuous Assessment</b>	<b>Details</b>	<b>Marks</b>
<b>Component 1 (CA-1)</b>	Project/Presentation	15 marks
<b>Component 2 (CA-2)</b>	Class Test/Assignment	10 marks

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**b) Details of Semester End Examination**

75% of the total marks per course. Duration of examination will be two and half hours.

<b>Question Number</b>	<b>Description</b>	<b>Marks with Options</b>	<b>Total Marks</b>
1 A	Explain the Following Terms (Any 5 out of 7)	14	10
1B	Case Study	5	5
2	Answer the following (Any 2 out of 3)	22.5	15
3	Answer the following (Any 2 out of 3)	22.5	15
4	Answer the following (Any 2 out of 3)	22.5	15
5	Answer the following (Any 2 out of 3)	22.5	15
<b>Total Marks</b>			<b>75</b>

Signature  
HOD

Signature  
Approved by Vice Principal

Signature  
Approved by I/C Principal

**SVKM's Mithibai College of Arts, Chauhan Institute of Science & Amrutben  
Jivanlal College of Commerce & Economics (AUTONOMOUS)**

<b>Program: B.Com. (2021-22)</b>				<b>Semester: I</b>	
<b>Course: Introduction to Business Environment</b>				<b>Course Code:</b>	
<b>Teaching Scheme</b>			<b>Evaluation Scheme</b>		
<b>Lecture (Hours per week)</b>	<b>Practical (Hours per week)</b>	<b>Tutorial (Hours per week)</b>	<b>Credit</b>	<b>Continuous Assessment (CA) (Marks - 25)</b>	<b>Semester End Examinations (SEE) (Marks- 75 in Question Paper)</b>
3	NIL	NIL	3	25	75
<b>Learning Objectives:</b>					
<ol style="list-style-type: none"> <li>1. To familiarize learners with the concept of business environment and its components.</li> <li>2. To provide an insight into the impact of external environmental factors affecting business and inter-relationship between business and its environment.</li> <li>3. To develop understanding of the concepts of Liberalization, Privatization and Globalization and the impact of LPG on Indian economy</li> <li>4. To give insight on the nature of global business environment and modes of entry for businesses in foreign markets</li> <li>5. To provide basic understanding of the concepts of business ethics, social responsibilities of business, corporate governance and consumer protection</li> <li>6. To develop understanding of different business strategies.</li> </ol>					
<b>Course Outcomes:</b>					
After completion of the course, learners would be able to:					
<b>CO1:</b> Develop an understanding of the environment in which businesses operate.					
<b>CO2:</b> Know the factors that affect business environment					
<b>CO3:</b> Gain an understanding of environmental analysis					
<b>CO4:</b> Raise students' general awareness of the concepts of business ethics, corporate governance and corporate social responsibility					
<b>CO5:</b> Understand the relevance of corporate social responsibility to ethical business activities.					
<b>Outline of Syllabus: (per session plan)</b>					
<b>Module</b>	<b>Description</b>				<b>No. of Hours</b>
<b>1</b>	Business and its Environment				9
<b>2</b>	Components of Business Environment – I				9
<b>3</b>	Components of Business Environment – II				9
<b>4</b>	Strategy Alternatives in the Changing Scenario				9
<b>5</b>	Project work and Presentation				9
	<b>Total</b>				<b>45</b>

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<b>Unit</b>	<b>Topic</b>	<b>No. of Hours/Credits</b>
<b>Module 1</b>	<p><b>Business and its Environment</b></p> <p>1.1 Business Objectives - Concept, Steps in Setting Business Objectives, Importance of Business Objectives</p> <p>1.2 Classification of Business Objectives, Reconciliation between Social and Economic Objectives, Significance of Profit in Business</p> <p>1.3 Strategies - Meaning, Fundamentals of Strategy, Corporate, Business and Functional level strategy, Importance of strategies</p> <p>1.4 Business Environment - Meaning, Characteristics, Components of Business Environment</p> <p>1.5 Vision and Mission Statements - Meaning, Importance, Vision Statements v/s Mission Statements</p> <p>1.6 Environmental Analysis - Meaning, Importance, Factors Influencing Environmental Analysis, Limitations</p> <p>1.7 SWOT Analysis and PESTLE Analysis</p> <p>1.8 Case Studies</p>	<b>9</b>
<b>Module 2</b>	<p><b>Components of Business Environment – I</b></p> <p>2.1 Inter-relationship between Business and its Environment</p> <p>2.2 Political Environment - Meaning, Political factors influencing business, Impact of political environment on business, Role of government in business</p> <p>2.3 Economic Environment - Meaning, Economic factors influencing business, Overview of economic environment in India,</p> <p>2.4 Liberalization, Privatization, Globalization - Concept, Impact on Indian economy</p> <p>2.5 Public Private Partnership (PPP) - Concept, Advantages, Disadvantages</p> <p>2.6 Natural Environment - Meaning, Natural environmental factors affecting business, Impact of natural factors on</p>	<b>9</b>

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	<p>business,</p> <p>2.7 Regulatory Environment - Meaning, Major laws pertaining to business in India</p> <p>2.8 Case Studies</p>	
<b>Module 3</b>	<p><b>Components of Business Environment – II</b></p> <p>3.1 Demographic Environment - Meaning, Impact of demographic environment on business, Demographic environment in India</p> <p>3.2 Socio-Cultural Environment - Meaning, Socio-Cultural factors affecting business, Overview of Socio-Cultural environment in India and its impact on business.</p> <p>3.3 Social Responsibility of Business - Meaning, Importance, Social Responsibility of business towards Stakeholders (Employees, Customers, Investors, Creditors, Government, Society in general)</p> <p>3.4 Business Ethics - Meaning, Elements, Importance</p> <p>3.5 Corporate Governance – Concept, Elements, Importance</p> <p>3.6 Technological Environment - Meaning, Technological Factors affecting business, Impact of technological environment on business, Overview of technological environment in India</p> <p>3.7 Global Environment - Meaning, Global factors affecting business, Constituents of Global Environment</p> <p>3.8 Case Studies</p>	<b>9</b>
<b>Module 4</b>	<p><b>Strategy Alternatives in the Changing Scenario</b></p> <p>4.1 Business Growth - Meaning, Internal and External Growth, Expansion Strategies, Diversification Strategies</p> <p>4.2 Corporate Restructuring - Meaning, Strategies, Benefits</p> <p>4.3 Retrenchment Strategies - Meaning, Types, Need</p> <p>4.4 Multinational Companies - Concept, Advantages, Limitations, MNCs in India</p> <p>4.5 Transnational Companies - Concept, Global Companies - Concept</p>	<b>9</b>

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	4.6 Strategic Alliances - Meaning, Types of Strategic Alliances, Benefits, Problems Involved in Strategic Alliances  4.7 Foreign Direct Investment - Concept, Factors influencing FDI, Need for FDI in developing countries  4.8 Case Studies	
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**Suggested Readings:**

1. Business Environment, Fernando, A.C., Pearson, 2011.
2. International Business Environment, Daniels, John D, Pearson, 2017.
3. Business Environment, Fran, Cherunilam, Himalaya Publication, 1999.
4. Business Environment, Paul Justin, Tata McGraw-Hill, 2010.
5. Global Business Environment, Parhizgar, Kamal Dean, Jaico Publishing, 2007



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**Program: F.Y.B.Com.**

**Course: Introduction to Service Sector**

**Semester II**

**Choice Based Credit System (CBCS) with effect from the  
Academic year 2021-22**

## **BACHELOR OF COMMERCE**

For completion of the B.Com. program, a learner is required to complete six semesters over three years for the completion of the program. The broad program outcomes are:

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**PO 9: Responsible and Effective Use of ICT:** The learner will be aware of how to use technology for enhancing learning. She/he will be aware of how to make responsible use of technology and social media in communication, discussion forums, forming meaningful communities, participating in social activities and dissemination of knowledge.

### **Program Specific Outcomes (PSO'S)**

On completion of the B.Com., the learners should be enriched with knowledge and be able to-

**PSO1:** The learners will be enriched with the knowledge of services.

**PSO2:** The learners will become familiar with retailing, e-commerce and other trends in service sector.

**PSO3:** The learners will be able evaluate prospects and challenges in service sector.

**PSO4:** The learners will also explore the growth possibilities of Indian service sector.

### **Preamble**

Under Autonomy, the college aims to develop curriculum that enables the learners to learn the needs of the market. The Commerce curriculum aims at overall enhancement of learning experience of the learners pursuing the Three Year Integrated Program, Bachelor of Commerce. The evaluation of students' progress will be based on internal assessment and semester end examination.

### **Evaluation Pattern**

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**b) Details of Semester End Examination**

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5	Answer the following (Any 2 out of 3)	22.5	15
<b>Total Marks</b>			<b>75</b>

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Jivanlal College of Commerce & Economics (AUTONOMOUS)**

<b>Program: B.Com. (2021-22)</b>				<b>Semester: II</b>	
<b>Course: Introduction to Service Sector</b>				<b>Course Code:</b>	
<b>Teaching Scheme</b>			<b>Evaluation Scheme</b>		
<b>Lecture (Hours per week)</b>	<b>Practical (Hours per week)</b>	<b>Tutorial (Hours per week)</b>	<b>Credit</b>	<b>Continuous Assessment (CA) (Marks - 25)</b>	<b>Semester End Examinations (SEE) (Marks- 75 in Question Paper)</b>
3	NIL	NIL	3	25	75
<b>Learning Objectives:</b>					
<ol style="list-style-type: none"> <li>1. To familiarize learners with the basic concepts of services.</li> <li>2. To give insight on organized retailing, survival strategies for unorganized retailers, retail formats and mall management</li> <li>3. To develop understanding of preliminary aspects of E-commerce and modes of electronic payment</li> <li>4. To provide basic conceptual knowledge about the ITES sector</li> <li>5. To make learners aware of emerging trends in service sector</li> </ol>					
<b>Course Outcomes:</b>					
After completion of the course, learners would be able to -					
<b>CO 1</b> Develop an understanding about different types of services, trends and challenges in the service sector					
<b>CO 2</b> Gain basic conceptual knowledge on components of 7 P's of services marketing mix					
<b>CO 3</b> Gain insight on various aspects of retailing, role of branding, merchandizing and private labels					
<b>CO 4</b> Raise students' general awareness of ITES sector and E-commerce					
<b>CO 5</b> Enhance knowledge about contemporary trends in service sector					
<b>CO 6</b> Learn to implement service strategies to meet new challenges					
<b>Outline of Syllabus: (per session plan)</b>					
<b>Module</b>	<b>Description</b>				<b>No of Hours</b>
<b>1</b>	Concept of Services				9
<b>2</b>	Retailing				9
<b>3</b>	ITES Sector and E-Commerce				9
<b>4</b>	Trends in Major Services				9
<b>5</b>	Project Work and Presentation				9
	<b>Total</b>				<b>45</b>
<b>PRACTICALS</b>					<b>NIL</b>

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<b>Unit</b>	<b>Topic</b>	<b>No. of Hours/Credits</b>
<b>Module 1</b>	<p><b>Concept of Services</b></p> <p>1.1 Meaning, Characteristics, Scope and Classification of Services</p> <p>1.2 Role of Services in Modern Economy</p> <p>1.3 Opportunities and Challenges in Service Sector</p> <p>1.4 Services Marketing Mix – Concept, 7 P's of Marketing Mix</p> <p>1.5 Consumer Expectations in Services - Meaning, Types, Zones of Tolerance, Factors Influencing Customer Expectations of Services, Concept of Customer Delight</p> <p>1.6 Managing Demand and Capacity - Strategies to match demand and capacity</p> <p>1.7 Role of CRM in Services Marketing</p> <p>1.8 Case Studies</p>	<b>9</b>
<b>Module 2</b>	<p><b>Retailing</b></p> <p>2.1 Concept of Organized and Unorganized Retailing, Factors responsible for the growth of organized retailing in India, Survival strategies for unorganized retailers</p> <p>2.2 Retail Formats: Store Formats and Non-Store Formats</p> <p>2.3 Shopping Mall - Concept, Components of Mall Management</p> <p>2.4 Retail Franchising - Concept, Advantages, Disadvantages</p> <p>2.5 Branding - Private Labels, Role of Private Labels, In-Store Display, Merchandizing</p> <p>2.6 Trends in Retailing, Retail prospects and challenges in India</p>	<b>9</b>

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	<p>2.7 FDI in Retailing - Impact on retail sector in India</p> <p>2.8 Case Studies</p>	
<b>Module 3</b>	<p><b>ITES Sector and E-Commerce</b></p> <p>3.1 Information Technology Enabled Services - Concept, Scope, Reasons for the growth of ITES sector in India,</p> <p>3.2 BPO, KPO, LPO - Concept, Advantages, Limitations</p> <p>3.3 E-Commerce - Concept, Functions and Scope</p> <p>3.4 Factors responsible for the growth of e-commerce in India, Online Purchase Process</p> <p>3.5 Need and Importance of E-commerce, Challenges of E-commerce</p> <p>3.6 Types of E-Commerce - B2B, B2C, C2C, C2B, C2G, B2G</p> <p>3.7 M-Commerce - Meaning, Applications, Distinguish between E-Commerce and M-Commerce</p> <p>3.8 Case Studies</p>	<b>9</b>
<b>Module 4</b>	<p><b>Trends in Major Services</b></p> <p>4.1 Banking - ATM, Debit cards, Credit cards, Internet Banking - Meaning, Advantages and Disadvantages</p> <p>4.2 Logistics - Meaning, Elements, Importance, Challenges for logistics sector in India</p> <p>4.3 Financial Technology Services - Concept, Electronic Payment System - Digital Payments: Smart Cards, Payment Gateways, Mobile Payments, Digital and Virtual Currencies</p> <p>4.4 Transportation and Mobility – Concept, Types</p> <p>4.5 Tourism and Hospitality – Concept, Recent trends</p> <p>4.6 Telecommunication and Entertainment - Concept, Prospects and Challenges</p> <p>4.7 Healthcare Services - Meaning, Growth of Health Care Industry, Recent Trends</p> <p>4.8 Case Studies</p>	<b>9</b>

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**Suggested Readings:**

1. Zeithaml, Valarie A, Services Marketing, McGraw Hill Education, 2011
2. Gupta S L, Retailing & E- tailing, International Book House, New Delhi, 2011
3. Raghuram G, Logistics & Supply Chain Management: Cases and Concepts,  
Macmillan Business Books,
4. Joseph P T, E-Commerce an Indian Perspective, Prentice Hall India, 2015





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**UNIVERSITY OF MUMBAI**

**Program: BCom**

**Course: Environmental Studies**

**Semester I & II**

**Choice Based Credit System (CBCS) with effect from the  
Academic year**

**2021-22**

**PROGRAMME SPECIFIC OUTCOMES (PSO'S)**

On completion of the B.Com- \_\_\_\_\_, the learners should be enriched with knowledge and be able to-

- PSO1:** \_\_\_\_\_
- PSO2:** \_\_\_\_\_
- PSO3:** \_\_\_\_\_
- PSO4:** \_\_\_\_\_
- PSO5:** \_\_\_\_\_
- PSO6:** \_\_\_\_\_
- PSO7:** \_\_\_\_\_
- PSO8:** \_\_\_\_\_

**Preamble**

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**Evaluation Pattern**

The performance of the learner will be evaluated in two components. The first component will be a Continuous Assessment with a weightage of 25% of total marks per course. The second component will be a Semester end Examination with a weightage of 75% of the total marks per course. The allocation of marks for the Continuous Assessment and Semester end Examinations is as shown below:

**a) Details of Continuous Assessment (CA)**

25% of the total marks per course:

<b>Continuous Assessment</b>	<b>Details</b>	<b>Marks</b>
<b>Component 1 (CA-1)</b>	Project/Assignment	15 marks
<b>Component 2 (CA-2)</b>	Class Test	10 marks

**a) Details of Semester End Examination**

75% of the total marks per course. Duration of examination will be two and half hours.

<b>Question Number</b>	<b>Description</b>	<b>Marks</b>	<b>Total Marks</b>
1 to 4	Two questions (7.5 marks each) from Unit 1, 2, 3, 4	60	60
5	Three short notes (5 marks each) from Unit 1- 4	15	15
<b>Total Marks</b>			<b>75</b>

Signature

HOD

Signature

Approved by Vice –Principal

Signature

Approved by Principal

**SVKM's Mithibai College of Arts, Chauhan Institute of Science & Amrutben  
Jivanlal College of Commerce & Economics (AUTONOMOUS)**

<b>Program: B. Com (2021-22)</b>				<b>Semester: I &amp; II</b>	
<b>Course: Environmental Studies</b>				<b>Course Code: UCMAEVS105 UCMAEVS205</b>	
<b>Teaching Scheme</b>			<b>Evaluation Scheme</b>		
<b>Lecture (Hours per week)</b>	<b>Practical (Hours per week)</b>	<b>Tutorial (Hours per week)</b>	<b>Credit</b>	<b>Continuous Assessment (CA) (Marks - 25)</b>	<b>Semester End Examinations (SEE) (Marks- 75 in Question Paper)</b>
3	----	----	3	25	75

**Learning Objectives:**

1. To create an environmental awareness and sensitization among commerce students
2. To impart knowledge of various aspects of the natural environment.
3. To highlight functional and spatial linkages among environment, economy and society.
4. To sensitize students about the impact of environmental damages due to resources' utilization and practices to reduce the harmful impact on the environment
5. To facilitate the process of linking Sustainable Development Goals with the environmental objectives of the businesses
6. To emphasize the importance of environment management in all commercial and economic activities
7. To develop an understanding of the role of various stakeholders in environmental governance
8. To give insight into various problems of urbanization as well as alternatives to make cities sustainable
9. To acquaint students with the environmentally significant areas, features of the Greater Mumbai and surrounding.
10. To orient students towards the field work through observation and study of environmentally significant features in surroundings

**Course Outcomes:**

After completion of the course, learners would be able to:

- CO1:** Students develop a better understanding of the functioning of the environment and its relation with the Commerce
- CO2:** Awareness about the various environmental issues and their implications for environment and society and commerce
- CO3:** Adoption of environment friendly habits and responsible behaviour in use of resources like water, electricity by individuals, industries & commerce
- CO4:** Realization of the extent of the impact of over-exploitation and degradation of resources and practices to ensure conservation of resources
- CO5:** Awareness of the need to adopt sustainable business practices and gain understanding of such practices.
- CO6:** Comprehend the importance of the environment management practices in all commercial and economic activities
- CO7:** Gain knowledge of the environmental laws and regulations that govern various commercial and economic activities.

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- CO8:** Gain the right perception of the intensity of the problems of urbanization and role as a responsible occupant of cities.
- CO9:** Students are better oriented towards Mumbai and acquire better understanding of spatial aspects and environmentally significant areas of Mumbai
- CO10:** Students develop the right perceptives for environmentally significant features around them

**Outline of Syllabus: (per session plan)  
Semester I**

Module	Description	No of Hours
<b>1</b>	Introduction to Environmental Studies and Ecosystems	10
<b>2</b>	Natural Resources: Renewable and Non-Renewable Resources; Biodiversity and Conservation	14
<b>3</b>	Environmental Pollution – Environmental Policies and Practices	10
<b>4</b>	Human Communities and Environment	10
	Field Work Orientation	01
	<b>Total Lectures</b>	45

Unit	Environmental Studies Semester-I Topics	No. of Hours/Credits
<b>Module 1</b>	<b>Introduction to Environmental Studies and Ecosystems</b>	<b>10</b>
	<ul style="list-style-type: none"> <li>• Multidisciplinary nature of environmental studies; Scope and importance; components of environment – atmosphere, hydrosphere, lithosphere and biosphere.</li> <li>• Heating of earth and circulation of air; air mass formation and precipitation.</li> <li>• Concept of sustainability and sustainable development.</li> <li>• What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chain, food web and ecological succession. Case studies of the following ecosystems: a) Forest ecosystem b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)</li> </ul> <p>Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.</p>	
<b>Module 2</b>	<b>Natural Resources: Renewable and Non-Renewable Resources; Biodiversity and Conservation</b>	<b>14</b>

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	<ul style="list-style-type: none"> <li>• Land Resources and land use change; Land degradation, soil erosion and desertification.</li> <li>• Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.</li> <li>• Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international &amp; inter-state).</li> <li>• Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.</li> </ul> <p><b>Biodiversity and Conservation</b></p> <ul style="list-style-type: none"> <li>• Levels of biological diversity, Biogeography zones of India; Biodiversity patterns and global biodiversity hot spots</li> <li>• India as a mega-biodiversity nation; Endangered and endemic species of India</li> <li>• Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions;</li> <li>• Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity</li> </ul>	
<b>Module 3</b>	<b>Environmental Pollution – Environmental Policies and Practices</b>	<b>10</b>
	<ul style="list-style-type: none"> <li>• Environmental pollution: types, causes, effects and controls; Air, water, soil, chemical and noise pollution, Pollution case studies.</li> <li>• Solid waste management: Control measures of urban and industrial waste.</li> <li>• Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Carbon foot-print.</li> <li>• Environment Laws: Environment Protection Act; Air (Prevention &amp; Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act; International agreements;</li> <li>• Montreal and Kyoto protocols and conservation on Biological Diversity (CBD). The Chemical Weapons Convention (CWC).</li> </ul>	
<b>Module 4</b>	<b>Human Communities and Environment</b>	<b>10</b>
	<ul style="list-style-type: none"> <li>• Human population and growth: Impact on environment, human health and welfares.</li> </ul>	

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	<ul style="list-style-type: none"> <li>• Disaster management: floods, earthquakes, cyclones and landslides. Nuclear hazards and human health risks</li> <li>• Resettlement and rehabilitation of project affected persons; case studies.</li> <li>• Nature reserves, tribal population and rights, and human-wildlife conflicts in Indian context</li> <li>• Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan.</li> <li>• Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.</li> <li>• Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi)</li> </ul>	
	<b>Field Work Orientation</b>	<b>01</b>
	<ul style="list-style-type: none"> <li>• Visit to an area to document environmental assets; river/forest/flora/fauna, etc.</li> <li>• Visit to a local polluted site – Urban/Rural/Industrial/Agricultural.</li> <li>• Study of common plants, insects, birds and basic principles of identification.</li> <li>• Study of simple ecosystems-pond, river, Ridge, etc.</li> </ul>	
	<b>Total Lectures</b>	<b>45</b>

**Semester II**

<b>Module</b>	<b>Description</b>	<b>No of Hours</b>
<b>1</b>	Environmental Management and Governance	10
<b>2</b>	Environmental Regulations in India	11
<b>3</b>	Urbanization and Environment	12
<b>4</b>	Sustainable Development Goals – Environmental Dimensions	10
	Map Exercise – Map filling Mumbai (Environmentally significant features)	02
	<b>Total Lectures</b>	<b>45</b>

<b>Unit</b>	<b>Environmental Studies Semester-I Topics</b>	<b>No. of Hours/Credits</b>
<b>Module 1</b>	<b>Environmental Management and Governance</b>	<b>10</b>

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	<ul style="list-style-type: none"> <li>• Environmental Management: Concept, need and approaches</li> <li>• Environmental Governance Tools</li> <li>• Environmental Governance in India – <ul style="list-style-type: none"> <li>➤ Role of Ministry of Environment, Forest and Climate Change</li> <li>➤ Role of Green Tribunals – Landmark judgements</li> <li>➤ Role of Pollution Control Boards, and</li> <li>➤ Role of NGO's</li> </ul> </li> <li>• Role of Geospatial Technology in environmental Management</li> </ul>	
<b>Module 2</b>	<b>Environmental Regulations in India</b>	<b>11</b>
	<ul style="list-style-type: none"> <li>• EIA- Concept, Definition, Need, purpose and objectives;</li> <li>• Background and History of EIA, EIA Notification</li> <li>• Methods to carry out EIA, Types of EIA, Steps in EIA, and Benefits of EIA</li> <li>• Main participants in EIA and their role,</li> <li>• Environmental components of EIA, EIA documentation</li> <li>• Coastal Regulation Zone (CRZ): Introduction, Background and Objectives</li> <li>• Coastal Regulation Zone Notification 2011 &amp; 2018; Challenges in implementation</li> </ul>	
<b>Module 3</b>	<b>Urbanization and Environment</b>	<b>12</b>
	<ul style="list-style-type: none"> <li>• Urbanization: Definition, Concept; Meaning of urbanization in Indian context.</li> <li>• Process of Urbanization in Third World Countries and Developed Countries</li> <li>• Trends of urbanization: World and India; Causes and Effects of Rapid urbanization</li> <li>• Features and problems of urbanization in India; Measures to solve the problem of urbanization</li> <li>• Urban planning and development in India, major challenges, Major policies Impacting urban development in India</li> <li>• Smart Cities: Concept, Objectives, Key attributes, Benchmarks, City selection criteria, Solutions</li> </ul>	
<b>Module 4</b>	<b>Sustainable Development Goals – Environmental Dimensions</b>	<b>10</b>



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	<ul style="list-style-type: none"> <li>• Introduction to the Sustainable Development Goals - Brief History</li> <li>• SDG agenda – 5 key opportunities for development, Integrated Approach to the Sustainable Development Goals</li> <li>• Environmental Dimensions of SDGs, Environmental Goals, Targets and Indicators</li> <li>• Environmental Goals achievements – Global and India level</li> <li>• SDGs and the role of Business, Integration of SDGS into business strategy and operations, sustainability reporting and impact measurement</li> </ul>	
	<p><b>Map Exercise - Map filling - Mumbai</b> (Environmentally significant features)</p>	<p align="center">02</p>

**Suggested Readings for Semester - I**

1. Banerjee, A. (2013). Contemporary Urbanisation in India: Issues and Challenges. Concept Publishing Co. Pvt. Ltd. New Delhi.
2. Botkin and Keller. (2012). 'Environmental Science'. John Wiley & Sons Inc., Wiley India (P) Ltd., New Delhi. Eighth Edition.
3. Boyle, G. (Ed.) (2012). Renewable Energy: Power for a Sustainable Future. Oxford University Press.
4. Das, B.K., and Banerjee A. (2014). Biodiversity Conservation in India: Management Practices, Livelihood Concerns and Future Options. Concept Publishing Co. Pvt. Ltd. New Delhi.
5. Goel, S. (Ed) (2016). Management of Resources for Sustainable Development. Orient Blackswan.
6. Gurung, C. (2013). Eco-Conservation and Sustainable Living. Narosa Publishing House.
7. Hung, Y. Lawrence, L.K., and Shammas N.K., (Eds.) (2012). Handbook of Environment and Waste Management: Air and Water Pollution Control. World Scientific Co. Pvt. Ltd.
8. Krishnamoorthy, Bala (2017). Environmental Management Text and Cases. PHI Learning Pvt. Ltd.
9. Kumar, A. (2016). Environment and Agriculture. APH publishing corporation
10. Laine, N. (2012). Nature, Environment and Society- Conservation, Governance and Transformation in India. Orient Blackswan.
11. Mani, N. (2017). Environment, climate change and disaster management. New Century.
12. Narain, S. (2017). Conflicts of Interest: My Journey through India's Green Movement. Penguin Viking.
13. Narain, S. (2018). Body Burden: Lifestyle Diseases. Center for Science and Environment.
14. Narain, S. (2018). State of India's Environment 2018. Center for Science and Environment.

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16. Ristinen, Robert A. (2016). Energy and the environment. Wiley
17. Sahu, H.K., Sethy J., and Mishra R. (2015). Biodiversity Conservation, Research and Management. Himalaya Publishing House.
18. Santra, S.C. (2014). 'Environmental Science', New Central Book Agency Pvt. Ltd, Kolkata. Third Edition.
19. Sashi, V., and Poornima S. (Eds.) (2014). Bioresources - Conservation Strategies. Narosa Publishing House Pvt. Ltd. New Delhi.
20. Singh, H.H. (2016). Geography and Environment: Issues and Challenges. Concept Publishing Co. Pvt. Ltd. New Delhi.
21. Singh, S. (2018). Environmental Geography. Parvalika Publications.
22. Vinodan, C. (2015). Energy Security Choices for India.
23. National Portal of India  
<https://www.india.gov.in/act-and-rules-related-environment-protection>
24. National Disaster Management Authority of India <https://ndma.gov.in/en/>
25. The legal and regulatory framework for environmental protection in India  
<http://moef.gov.in/>
26. National Thermal Power Corporation <https://www.ntpc.co.in/>
27. United States Nuclear Regulatory Commission <https://www.nrc.gov/>

**Suggested Readings for Semester - II**

1. Asthana, D. K. and Asthana, M. (2012). A Textbook of Environmental Studies, S. Chand & Company Ltd., New Delhi.
2. Daniele, Ponzi Dechen, Tsering and Jaco, Cilliers (2019). Strengthening the Environmental Dimensions of The Sustainable Development Goals in Asia and the Pacific Tool Compendium. Asian Development Bank and the United Nations Environment Programme
3. Jayamani, C. V. and Vasanthagopal, R. (2012). 'Environmental Management', New Century Publications, New Delhi.
4. Karpagam, M. and Jaikumar, G. (2010). 'Green Management – Theory and Applications' Ane Books Pvt. Ltd. New Delhi.
5. Krishnamoorthy, Bala (2017). Environmental Management Text and Cases. PHI Learning Pvt Ltd
6. Kundu, Amitabh (2006). Trends and Patterns of Urbanization and their Economic Implications, India Infrastructure Report
7. Nelson, David D. (2017). International Environmental Auditing, Government Institutes
8. Rajgopalan, R. (2016). 'Environmental Studies - from crisis to cure', Oxford University press, New Delhi. Third Edition.
9. Santra, S.C. (2014). 'Environmental Science', New Central Book Agency Pvt. Ltd, Kolkata. Third Edition
10. Kandpal, P. (2018). Environmental governance in India. Sage Pub.
10. Sivaramakrishnan, K.C., Kundu, Amitabh and Singh, B.N. (2005). Handbook of Urbanization in India: An Analysis of Trends and Process, New Delhi: Oxford University Press.

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11. Teresa, Fogelberg and Paula, Pelaez (2016). 'MEASURING IMPACT How Business Accelerates the Sustainable Development Goals'. United Nations Development Programme and GR
12. Ahluwalia, I. J. *Planning for Urban Development in India*, Indian Council for Research on International Economic Relations available at [http://icrier.org/Urbanisation/pdf/Ahluwalia\\_Planning\\_for\\_Urban\\_%20Development.pdf](http://icrier.org/Urbanisation/pdf/Ahluwalia_Planning_for_Urban_%20Development.pdf)
13. Batra, L. (2009). *A Review of Urbanization and urban policy in post-independent India*, WORKING PAPER SERIES Centre for the Study of Law and Governance Jawaharlal Nehru University, New Delhi available at <https://www.jnu.ac.in/sites/default/files/u63/12-A%20Review%20of%20Urban%20%28Lalit%20Batra%29.pdf>
14. Chand, S. (2020). *Major problems of urbanization in India*, Your Article Library available at <https://www.yourarticlelibrary.com/urbanisation/11-major-problems-of-urbanisation-in-india/19880>
15. Deshmukh, M. S. (2015). *Emerging trends of urbanization in India*, EPRA International Journal of Economic and Business Review Vol-3, Issue-12 available at <https://eprawisdom.com/jpanel/upload/articles/119am23.Dr.%20M%20S%20Deshmukh.pdf>
16. EIA Notifications and Circulars (2020). available at <http://environmentclearance.nic.in/writereaddata/EIA%20Notifications.pdf>
17. Environmental Information System – Components of EIA available at <http://www.envis.org/eia/eia-manual/80-components-of-eia>
18. Geography – Causes and Consequences of Urbanization available at <http://lumengeo.weebly.com/causes-and-consequences-of-urbanisation.html>
19. Introduction to Environmental Impact Assessment (EIA) (2020) available at [https://www.soas.ac.uk/cedep-demos/000\\_P507\\_EA\\_K3736-Demo/unit1/index.htm](https://www.soas.ac.uk/cedep-demos/000_P507_EA_K3736-Demo/unit1/index.htm)
20. Maharashtra Coastal Zone Management Authority (2019). Draft CZMP of Mumbai City & Mumbai Suburban available at <https://mczma.gov.in/content/draft-czmp-mumbai-city-mumbai-suburban-2019>
21. Ministry of Environment, Forest and Climate Change Government of India – EIA Related Information (2020). available at <http://environmentclearance.nic.in/>
22. Ministry of Environment, Forest and Climate Change Government of India – Coastal Regulation Zones (2020). available at <http://environmentclearance.nic.in/>
23. Ministry of Environment, Forest and Climate Change Government of India - CRZ Notifications (2020). available at [http://environmentclearance.nic.in/report/Crz\\_notificationPage.aspx?CRZ=A](http://environmentclearance.nic.in/report/Crz_notificationPage.aspx?CRZ=A)
24. Ministry of Statistics and Programme Implementation, Government of India (2020). SDGS National Framework Indicator Progress Report, 2020. Ministry of Statistics and Programme implementation Government of India New Delhi, India available at [http://www.mospi.gov.in/sites/default/files/publication\\_reports/SDGProgressReport2020.pdf](http://www.mospi.gov.in/sites/default/files/publication_reports/SDGProgressReport2020.pdf)
25. Morphocode - Global trends of urbanization available at <https://morphocode.com/global-trends-urbanisation/>
26. National Accreditation Board for Education and Training (NABET) (2020). available at <http://nabet.qci.org.in/> <http://nabet.qci.org.in/eia.php>
27. OpenLearn – Smart Cities available at <https://www.open.edu/openlearn/ocw/mod/oucontent/view.php?id=67877&section=2>

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29. Population Division, Department of Economic and Social Affairs United Nations Secretariat (2001). The Components of Urban Growth in Developing Countries, available at [https://population.un.org/wup/Archive/Files/studies/United%20Nations%20\(2001\)%20-%20The%20Components%20of%20Urban%20Growth%20in%20Developing%20Countries.pdf](https://population.un.org/wup/Archive/Files/studies/United%20Nations%20(2001)%20-%20The%20Components%20of%20Urban%20Growth%20in%20Developing%20Countries.pdf)
30. Smart Cities Mission, Government of India – Smart City available at <http://smartcities.gov.in/content/>
31. The Sustainable Development Solutions Network (2015). Getting Started with the Sustainable Development Goals—A Guide for Stakeholders. Available at <https://sdg.guide/>
32. United Nations Environment Programme (UNEP) EIA Training Resource Manual, Studies of EIA practice in developing countries, available at <https://www.iaia.org/pdf/case-studies/CaseStudies.PDF>
33. United Nations Statistics Division, a division of the Department of Economic and Social Affairs (2020). United Nations Statistics Division. Development Data and Outreach Branch. Available at <https://unstats.un.org/sdgs/report/2020/>