

Teaching Plan for Summer Semester 2016-17

Name of the Teacher: Dr. Gaurav Sharma

Course Name: BA (H) Economics/B.Com (H)

Paper Title: Environmental Science

Semester/Year: II/Ist

S. No.	Month	Week No.	Unit/Topic	Resource/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
1.	January	3	Unit 1	Perspectives of Environmental Studies by Anubha Kaushik	1	NA	NA	BBC Documentary
			Introduction to Environmental Studies	Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 8th Edition. Wiley Publishing, USA. Chapter 1 (Pages: 1-17)	1			
		4		Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 1 (Page: 3-28)	1 1 2	NA		Quiz Conducted after completion of Unit 1

S. No.	Month	Week No.	Unit/Topic	Resource/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks	
2.	February	1	Unit 2 Ecosystems	Odum, E.P., Odum, H.T., and Andrews, J. (1971). <i>Fundamentals of Ecology</i> . Saunders, Philadelphia, USA. Chapter 1 (Pages: 1-16); Chapter 2 (Pages: 18-76); Chapter 10 (Pages: 414-458).	1	NA		Documentary	
					1				
					1				
					1				
					1				
		2			Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 3 (Pages: 38-52); Chapter 4 (Pages: 53-62); Chapter 5 (Pages: 100-103); Chapter 6 (Pages: 106-128).	1	NA	1 st Internal Assessment (on completion of Unit 2)	Quiz conducted after completion of Unit 2
					2				
					2				
					1				
					1				
		3	Unit 3 Natural Resources		Gadgil, M. and Guha, R. (1993). <i>This Fissured Land: An Ecological History of India</i> . University of California Press, Berkeley, USA. (pp. 1-245).	2	NA		
						2			
						1			
						1			
						1			
						1			
4			McCully, P. (1996). <i>Rivers no more: the environmental effects of dams</i> , In: <i>Silenced Rivers: The Ecology and Politics of Large Dams</i> , Zed Books, New York, USA. Page. 29-64 .	1	NA		Documentary		
				2					
				1					
				2					
				1					

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
3.	March	1	Unit 4 Biodiversity and conservation	Primack, R.B. (2014). <i>Essentials of Conservation Biology</i> , Oxford University Press, USA. Page. 1-536. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 5 (Pages: 97-99); Chapter 16 (Pages: 299-318).	1	NA	Second Internal Assessment (power point presentation)	BBC documentary on biodiversity
					1			
					1			
					1			
					2			
		2		Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapters 24 (Pages: 599-690); Chapter 26 (Pages: 664-714).	1	NA		
	1							
	1							
	1							
		3	3	Unit 5 Environmental Pollution	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>Environmental and Pollution Science</i> , 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243-255); Chapter 18 (Pages: 280-305); Chapter 21 (Pages: 352-358); Chapter 22 (Pages: 365-374); Chapter 23 (Pages: 378-388); Chapter 25 (Pages: 416-426).	1	NA	Documentary
	1							
	1							
1								
	4	4		Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA. Pp. 1-264.	1	NA		
1								
1								
1								

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks	
4.	April	1	Unit 6 Global Environmental Issues and Policies	Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India. Chapter 2 (Pages: 23-39); Chapter 3 (Pages: 41-86).	1	NA	Class Quiz		
					1				
					1				
					1				
					2				
					Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 370-376); Chapter 20 (Pages: 385-399).				Documentay An Inconvinient Truth
		2	Unit 7 Human Communities and Environment	Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807).	1	NA			
					1				
					2				
					1				
			Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India. Chapter 10 (Pages: 416-473).	1			Syllabus revision		
			Perspectives of Environmental Studies by Anubha Kaushik				Previous year's question paper discussion		

Teaching Plan for Winter Semester 2017-18

Name of the Teacher: Dr. Gaurav Sharma

Course Name: B.Com (H) / BA (H)

Paper Title: Environmental Science

Semester/Year: I/Ist

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
1.	July	3	Unit 1 Introduction to Environmental Studies	Perspectives of Environmental Studies by Anubha Kaushik	1	NA		BBC Documentary
					1			
					1			
					1			
		4	Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 8th Edition. Wiley Publishing, USA. Chapter 1 (Pages: 1-17)	1	NA			
				1				
				1				
				1				
2.	August	1	Unit 2 Ecosystems	Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 1 (Page: 3-28)	1	NA		Power Point Presentation
					1			
					1			
					1			
		2	Odum, E.P., Odum, H.T., and Andrews, J. (1971). <i>Fundamentals of Ecology</i> . Saunders, Philadelphia, USA. Chapter 1 (Pages: 1-16); Chapter 2 (Pages: 18-76); Chapter 10 (Pages: 414-458).	1	NA			
				1				
				1				
				1				
		3	Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 3 (Pages: 38-52); Chapter 4 (Pages: 53-62)	1	NA	First Internal Assessment Conducted		
				1				
				2				

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
		4	Unit 3 Natural Resources	Gadgil, M. and Guha, R. (1993). <i>This Fissured Land: An Ecological History of India</i> . University of California Press, Berkeley, USA. (pp. 1-245).	1 1 1 1	NA		
				McCully, P. (1996). <i>Rivers no more: the environmental effects of dams</i> , In: <i>Silenced Rivers: The Ecology and Politics of Large Dams</i> , Zed Books, New York, USA. Page. 29-64.		NA		Power Point Presentaion
3.	September	1		Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi.	1 1 2	NA		Documentary
		2	Unit 4 Biodiversity and Conservation	Primack, R.B. (2014). <i>Essentials of Conservation Biology</i> , Oxford University Press, USA. Page. 1-536.	1 1 1 1	NA		BBC Documentary
		3		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 5 (Pages: 97-99); Chapter 16 (Pages: 299-318).	1 1 1 1	NA	Second Internal Assessment	

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
		4	Unit 5 Environmental Pollution	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>Environmental and Pollution Science</i> , 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243-255); Chapter 18 (Pages: 280-305); Chapter 21 (Pages: 352-358); Chapter 22 (Pages: 365-374); Chapter 23 (Pages: 378-388); Chapter 25 (Pages: 416-426).	1 1 1 1	NA		
4.	October	1		Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA. Pp. 1-264.	1	NA		
					1			
					1			
					1			
		2	Unit 6 Global Environmental Issues and Policies	Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India.	1	NA		
					1			
					1			
					1			
	3		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 370-376); Chapter 20 (Pages: 385-399).	1	NA		Quiz	
				1				
				1				
				1				
	4	Unit 7 Human Communities and Environment	Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807).	1	NA			
				1				
				1				
				1				

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks	
5.	November	1		Divan, S. and Rosencranz, A. (2002). Environmental Law and Policy in India: Cases, Material & Statutes, 2nd Edition. Oxford University Press, India. Chapter 10 (Pages: 416-473).	1	NA		Documentary	
					1				
					1				
					1				
		2		Revision of syllabus and previous year's paper discussion.	1	NA			
					1				
					1				
					1				
		3			Carson, R. (2002). Silent Spring. Houghton Mifflin Harcourt, USA. Pp. 1-264.	1	NA		Previous year's question paper discussion
						1			
						1			
						1			

Teaching Plan for Summer Semester 2017-18

Name of the Teacher: Dr. Gaurav Sharma

Course Name: B.Com (H)/BA (H) Economics

Paper Title: Environmental Science

Semester/Year: II/Ist

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
1.	January	1	Unit 1 Introduction to Environmental Studies	Primack, R.B. (2014). <i>Essentials of Conservation Biology</i> , Oxford University Press, USA. Page. 1-536. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> .	1	NA		BBC documentary
		1						
		1						
		2						
		2		Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> .	1	NA		
		1						
		1						
		2						
		3	Unit 2 Ecosystems	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>Environmental and Pollution Science</i> , 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243- 255); Chapter 18	1	NA		Documentary
		1						
		1						
		1						
4		Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA. Pp. 1-264.	1	NA				
1								
1								
1								

S. No.	Month	Week No.	Unit/Topic	Resource/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks	
2.	February	1		Perspectives of Environmental Studies by Anubha Kaushik	2	NA	NA	BBC Documentary	
				Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 8th Edition. Wiley Publishing, USA. Chapter 1 (Pages: 1-17)	2				
		2	Unit 3 Natural Resources		Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 1 (Page: 3-28)	1	NA	NA	Quiz Conducted after completion of Unit 1
						1			
						2			
		3			Odum, E.P., Odum, H.T., and Andrews, J. (1971). <i>Fundamentals of Ecology</i> . Saunders, Philadelphia, USA. Chapter 1 (Pages: 1-16); Chapter 2 (Pages: 18-76); Chapter 10 (Pages: 414-458).	1	NA		Documentary
						1			
		4			Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA.	2	NA	1 st Internal Assessment (on completion of Unit 2)	Quiz conducted after completion of Unit 2
						1			
						1			

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks	
3.	March	1	Unit 4 Biodiversity and conservation	Primack, R.B. (2014). <i>Essentials of Conservation Biology</i> , Oxford University Press, USA. Page. 1-536. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 5 (Pages: 97-99); Chapter 16 (Pages: 299-318).	1	NA	Second Internal Assessment (power point presentation)	BBC documentary on biodiversity	
					1				
					1				
					1				
					2				
			2		Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapters 24 (Pages: 599-690); Chapter 26 (Pages: 664-714).	1	NA		
						1			
						1			
						2			
			3	Unit 5 Environmental Pollution	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>Environmental and Pollution Science</i> , 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243-255); Chapter 18 (Pages: 280-305); Chapter 21 (Pages: 352-358); Chapter 22 (Pages: 365-374); Chapter 23 (Pages: 378-388); Chapter 25 (Pages: 416-426).	1	NA		Documentary
						1			
						1			
1									
		4		Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA. Pp. 1-264.	1	NA			
					1				
					1				
					1				

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
4.	April	1	Unit 6 Global Environmental Issues and Policies	Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India. Chapter 2 (Pages: 23-39); Chapter 3 (Pages: 41-86).	1	NA	Class Quiz	
					1			
					1			
					1			
					2			
		2	Unit 7 Human Communities and Environment	Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 370-376); Chapter 20 (Pages: 385-399).	1	NA		Documentary An Inconvenient Truth
					1			
					2			
	Unit 7 Human Communities and Environment	Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807).	1					
			1					
			Perspectives of Environmental Studies by Anubha Kaushik			Previous year's question paper discussion		

Teaching Plan for Winter Semester 2018-19

Name of the Teacher: Dr. Gaurav Sharma

Course Name: B.Com (H)/BA (H) Economics

Paper Title: Environmental Science

Semester/Year: I/Ist

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
1.	July	3	Unit 1 Introduction to Environmental Studies	Perspectives of Environmental Studies by Anubha Kaushik	1	NA		BBC Documentary
					1			
					1			
					1			
		4		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 8th Edition. Wiley Publishing, USA. Chapter 1 (Pages: 1-17)	1	NA		
					1			
					1			
					1			
2.	August	1	Unit 2 Ecosystems	Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 1 (Page: 3-28)	1	NA		Power Point Presentation
					1			
					1			
					1			
		2		Odum, E.P., Odum, H.T., and Andrews, J. (1971). <i>Fundamentals of Ecology</i> . Saunders, Philadelphia, USA. Chapter 1 (Pages: 1-16); Chapter 2 (Pages: 18-76); Chapter 10 (Pages: 414-458).	1	NA		
					1			
					1			
					1			
		3		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley	1	NA	First Internal Assessment Conducted	
					1			
					2			

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
				Publishing, USA. Chapter 3 (Pages: 38-52); Chapter 4 (Pages: 53-62)				
		4	Unit 3 Natural Resources	Gadgil, M. and Guha, R. (1993). <i>This Fissured Land: An Ecological History of India</i> . University of California Press, Berkeley, USA. (pp. 1-245).	1 1 1 1	NA		
				McCully, P. (1996). <i>Rivers no more: the environmental effects of dams</i> , In: <i>Silenced Rivers: The Ecology and Politics of Large Dams</i> , Zed Books, New York, USA. Page. 29-64.		NA		Power Point Presentaion
3.	September	1		Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi.	1 1 2	NA		Documentary
		2	Unit 4 Biodiversity and Conservation	Primack, R.B. (2014). <i>Essentials of Conservation Biology</i> , Oxford University Press, USA. Page. 1-536.	1 1 1 1	NA		BBC Documentary
		3		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 5 (Pages: 97-99); Chapter 16 (Pages: 299-318).	1 1 1 1	NA	Second Internal Assessment	

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
		4	Unit 5 Environmental Pollution	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>Environmental and Pollution Science</i> , 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243-255); Chapter 18 (Pages: 280-305); Chapter 21 (Pages: 352-358); Chapter 22 (Pages: 365-374); Chapter 23 (Pages: 378-388); Chapter 25 (Pages: 416-426).	1 1 1 1	NA		
4.	October	1		Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA. Pp. 1-264.	1	NA		
					1			
					1			
					1			
		2	Unit 6 Global Environmental Issues and Policies	Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India.	1	NA		
					1			
					1			
					1			
	3		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 370-376); Chapter 20 (Pages: 385-399).	1	NA			
				1				
				1				
				1				
	4	Unit 7 Human Communities and Environment	Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807).	1	NA			
				1				
				1				
				1				

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
5.	November	1		Divan, S. and Rosencranz, A. (2002). Environmental Law and Policy in India: Cases, Material & Statutes, 2nd Edition. Oxford University Press, India. Chapter 10 (Pages: 416-473).	1	NA		Documentary
					1			
					1			
					1			
		2		Revision of syllabus.	1	NA		
					1			
	1							
	1							
		3		Previous year's paper discussion.	1	NA		
					1			
					1			
					1			

Teaching Plan for Summer Semester 2018-19

Name of the Teacher: Dr. Gaurav Sharma

Course Name: B.Com (H)/ BA (H) Economics

Paper Title: Environmental Science

Semester/Year: II/Ist

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
1.	January	1	Unit 1 Introduction to Environmental Studies	Primack, R.B. (2014). <i>Essentials of Conservation Biology</i> , Oxford University Press, USA. Page. 1-536. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> .	1	NA		BBC documentary
					1			
					1			
					2			
		2	Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> .	1	NA			
				1				
				1				
				2				
		3	Unit 2 Ecosystems	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>Environmental and Pollution Science</i> , 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243-255); Chapter 18 (Pages: 2	1	NA		Documentary
					1			
					1			
					1			
4	Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA. Pp. 1-264.	1	NA					
		1						
		1						
		1						

S. No.	Month	Week No.	Unit/Topic	Resource/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks	
2.	February	1		Perspectives of Environmental Studies by Anubha Kaushik	2	NA	NA	BBC Documentary	
				Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 8th Edition. Wiley Publishing, USA. Chapter 1 (Pages: 1-17)	2				
		2	Unit 3 Natural Resources		Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 1 (Page: 3-28)	1	NA	NA	Quiz Conducted after completion of Unit 1
						1			
						2			
		3			Odum, E.P., Odum, H.T., and Andrews, J. (1971). <i>Fundamentals of Ecology</i> . Saunders, Philadelphia, USA. Chapter 1 (Pages: 1-16); Chapter 2 (Pages: 18-76); Chapter 10 (Pages: 414-458).	1	NA		Documentary
						1			
		4			Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA.	2	NA	1 st Internal Assessment (on completion of Unit 2)	Quize conducted after completion of Unit 2
						1			
						1			

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks	
3.	March	1	Unit 4 Biodiversity and conservation	Primack, R.B. (2014). <i>Essentials of Conservation Biology</i> , Oxford University Press, USA. Page. 1-536.	1	NA	Second Internal Assessment (power point presentation)	BBC documentary on biodiversity	
					1				
					1				
					1				
		2							
		2		Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapters 24 (Pages: 599-690); Chapter 26 (Pages: 664-714).	1				NA
					1				
					1				
	2								
	3	Unit 5 Environmental Pollution	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>Environmental and Pollution Science</i> , 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243-255); Chapter 18 (Pages: 280-305); Chapter 21 (Pages: 352-358); Chapter 22 (Pages: 365-374); Chapter 23 (Pages: 378-388); Chapter 25 (Pages: 416-426).	1	NA	Documentary			
				1					
				1					
				1					
	4		Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA. Pp. 1-264.	1	NA				
				1					
				1					
1									

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks	
4.	April	1	Unit 6 Global Environmental Issues and Policies	Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India. Chapter 2 (Pages: 23-39); Chapter 3 (Pages: 41-86).	1	NA	Class Quiz		
					1				
					1				
					1				
					2				
		2		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 370-376); Chapter 20 (Pages: 385-399).	1	NA	Documentay An Inconvinient Truth		
					1				
					1				
					2				
					1				
		3	Unit 7 Human Communities and Environment	Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807).	1	NA			
					1				
					2				
					1				
					1				
		4		Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India. Chapter 10 (Pages: 416-473).	1	NA	Syllabus revision		
1									
1									
1									
Perspectives of Environmental Studies by Anubha Kaushik							Previous year's question paper discussion		

Teaching Plan for Winter Semester 2019-20

Name of the Teacher: Dr. Gaurav Sharma

Course Name: B.Com (H)/BA (H) Economics

Paper Title: Environmental Science

Semester/Year: I/Ist

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
1.	July	3	Unit 1 Introduction to Environmental Studies	Perspectives of Environmental Studies by Anubha Kaushik	1	NA		BBC Documentary
					1			
					1			
					1			
		4	Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 8th Edition. Wiley Publishing, USA. Chapter 1 (Pages: 1-17)	1	NA			
				1				
				1				
				1				
2.	August	1	Unit 2 Ecosystems	Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 1 (Page: 3-28)	1	NA		Power Point Presentation
					1			
					1			
					1			
		2	Odum, E.P., Odum, H.T., and Andrews, J. (1971). <i>Fundamentals of Ecology</i> . Saunders, Philadelphia, USA. Chapter 1 (Pages: 1-16); Chapter 2 (Pages: 18-76); Chapter 10 (Pages: 414-458).	1	NA			
				1				
				1				
				1				
		3	Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015).	1	NA			
				1				
				1				
				1				

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
				<i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 3 (Pages: 38-52); Chapter 4 (Pages: 53-62)	1		First Internal Assessment Conducted	
		4	Unit 3 Natural Resources	Gadgil, M. and Guha, R. (1993). <i>This Fissured Land: An Ecological History of India</i> . University of California Press, Berkeley, USA. (pp. 1-245).	1 1 1 1	NA		
				McCully, P. (1996). <i>Rivers no more: the environmental effects of dams</i> , In: <i>Silenced Rivers: The Ecology and Politics of Large Dams</i> , Zed Books, New York, USA. Page. 29-64.	1 1 1 1	NA		Power Point Presentaion
3.	September	1		Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi.	1 1 1	NA		Documentary
		2	Unit 4 Biodiversity and Conservation	Primack, R.B. (2014). <i>Essentials of Conservation Biology</i> , Oxford University Press, USA. Page. 1-536.	1 1 1 1	NA		BBC Documentary
		3		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 5 (Pages: 97-99); Chapter 16 (Pages: 299-318).	1 1 1 1	NA	Second Internal Assessment	

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
		4	Unit 5 Environmental Pollution	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>Environmental and Pollution Science</i> , 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243-255); Chapter 18 (Pages: 280-305); Chapter 21 (Pages: 352-358); Chapter 22 (Pages: 365-374); Chapter 23 (Pages: 378-388); Chapter 25 (Pages: 416-426).	1 1 1 1	NA		Documentary
4.	October	1		Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA. Pp. 1-264.	1 1 1 1	NA		Quiz
		2	Unit 6 Global Environmental Issues and Policies	Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India.	1 1 1 1	NA		Power Point Presentation
		3		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 370-376); Chapter 20 (Pages: 385-399).	1 1 1 1	NA		
		4	Unit 7 Human Communities and Environment	Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807).	1 1 1 1	NA		

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
5.	November	1		Divan, S. and Rosencranz, A. (2002). Environmental Law and Policy in India: Cases, Material & Statutes, 2nd Edition. Oxford University Press, India. Chapter 10 (Pages: 416-473).	1	NA		Documentary
					1			
					1			
					1			
		2		Revision of syllabus	1	NA		
					1			
	1							
	1							
		3		Previous year's paper discussion	1	NA		
					1			
					2			

Teaching Plan for Summer Semester 2019-20

Name of the Teacher: Dr. Gaurav Sharma

Course Name: B.Com (H)/BA (H) Economics

Paper Title: Environmental Science

Semester/Year: II/Ist

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks					
1.	January	1	Unit 1 Introduction to Environmental Studies	Primack, R.B. (2014). <i>Essentials of Conservation Biology</i> , Oxford University Press, USA. Page. 1-536.	1	NA		BBC documentary					
					1								
					1								
					1								
		2		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> .	2								
					1								
					1								
					1								
		2	Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> .		1	NA							
					1								
					1								
					1								
					2								
					3			Unit 2 Ecosystems	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>Environmental and Pollution Science</i> , 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243- 255); Chapter 18 (Pages: 2	1	NA		Documentary
										1			
										1			
1													
4	Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA. Pp. 1-264.		1	NA									
			1										
			1										
			1										

S. No.	Month	Week No.	Unit/Topic	Resource/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks	
2.	February	1		Perspectives of Environmental Studies by Anubha Kaushik	2	NA	NA	BBC Documentary	
				Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 8th Edition. Wiley Publishing, USA. Chapter 1 (Pages: 1-17)	2				
		2	Unit 3 Natural Resources		Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 1 (Page: 3-28)	1	NA	NA	Quiz Conducted after completion of Unit 1
						1			
						2			
		3			Odum, E.P., Odum, H.T., and Andrews, J. (1971). <i>Fundamentals of Ecology</i> . Saunders, Philadelphia, USA. Chapter 1 (Pages: 1-16); Chapter 2 (Pages: 18-76); Chapter 10 (Pages: 414-458).	1	NA		Documentary
						1			
		4			Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA.	2	NA	1 st Internal Assessment (on completion of Unit 2)	Quize conducted after completion of Unit 2
						1			
						1			

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
3.	March	1	Unit 4 Biodiversity and conservation	Primack, R.B. (2014). <i>Essentials of Conservation Biology</i> , Oxford University Press, USA. Page. 1-536.	1	NA	Second Internal Assessment (power point presentation)	BBC documentary on biodiversity
					1			
					1			
					1			
		2		Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapters 24 (Pages: 599-690); Chapter 26 (Pages: 664-714).	2			
					1			
					1			
					1			
	3	Unit 5 Environmental Pollution	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>Environmental and Pollution Science</i> , 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243-255); Chapter 18 (Pages: 280-305); Chapter 21 (Pages: 352-358); Chapter 22 (Pages: 365-374); Chapter 23 (Pages: 378-388); Chapter 25 (Pages: 416-426).	1	NA	Documentary		
				1				
				1				
				1				
	4		Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA. Pp. 1-264.	1	NA			
				1				
				1				
				1				

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
4.	April	1	Unit 6 Global Environmental Issues and Policies	Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India. Chapter 2 (Pages: 23-39); Chapter 3 (Pages: 41-86).	1		Class Quiz	
					1			
					1			
					1			
					2			
		2		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 370-376); Chapter 20 (Pages: 385-399).	1			Documentay An Inconvinient Truth
					1			
					1			
					2			
					1			
		3	Unit 7 Human Communities and Environment	Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807).	1			
					1			
					2			
					1			
					1			
		4		Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India. Chapter 10 (Pages: 416-473).	1		Syllabus revision	
1								
1								
1								
2								
5.	May	1	Perspectives of Environmental Studies by Anubha Kaushik	1			Previous year's question paper discussion	
				1				
				1				
				1				
				2				

Teaching Plan for Winter Semester 2020-21

Name of the Teacher: Dr. Gaurav Sharma

Course Name: B.Com (H)/ BA (H) Economics

Paper Title: Environmental Science

Semester/Year: I/Ist

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
1.	November	3	Unit 1 Introduction to Environmental Studies	Perspectives of Environmental Studies by Anubha Kaushik	1	NA		PPT presentation
					1			
					1			
					1			
					1			
		4		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 8th Edition. Wiley Publishing, USA.	1	NA		
					1			
					1			
2.	December	1	Unit 2 Ecosystems	Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 1 (Page: 3-28)	1	NA		Quiz
					1			
					1			
					1			
					1			
		2		Odum, E.P., Odum, H.T., and Andrews, J. (1971). <i>Fundamentals of Ecology</i> . Saunders, Philadelphia, USA. Chapter 1 (Pages: 1-16); Chapter 2 (Pages: 18-76); Chapter 10 (Pages: 414-458).	1	NA		
					1			
					1			
					1			
			3	Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 3 (Pages: 38-52); Chapter 4 (Pages: 53-62)	1	NA	First Internal Assessment Conducted	
					1			
					1			
1								

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
1.		4	Unit 3 Natural Resources	Gadgil, M. and Guha, R. (1993). <i>This Fissured Land: An Ecological History of India</i> . University of California Press, Berkeley, USA. (pp. 1-245).	1	NA		
					1			
					2			
					1			
					1			
2.		5		Odum, E.P., Odum, H.T., and Andrews, J. (1971). <i>Fundamentals of Ecology</i> . Saunders, Philadelphia, USA. Chapter 1 (Pages: 1-16); Chapter 2 (Pages: 18-76); Chapter 10 (Pages: 414-458).	1	NA		
					1			
					1			
					1			
3.	January	1	Unit 4 Biodiversity and Conservation	Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi.	1	NA		
					1			
					1			
					2			
4.		2		Primack, R.B. (2014). <i>Essentials of Conservation Biology</i> , Oxford University Press, USA. Page. 1-536.	1	NA		
					1			
					1			
					2			
5.		3		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 5 (Pages: 97-99); Chapter 16 (Pages: 299-318).	1	NA		
					1			
					2			
					1			

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks	
		4	Unit 5 Environmental Pollution	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>Environmental and Pollution Science</i> , 3rd Edition. Academic Press, USA.	1	NA	Second Internal Assessment		
					1				
					1				
					1				
					1				
		5		Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA. Pp. 1-264.	1	NA		Quiz	
					1				
4.	February	1	Unit 6 Global Environmental Issues and Policies	Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India. Chapter 2 (Pages: 23-39); Chapter 3 (Pages: 41-86).	1	NA			
					1				
					1				
					2				
			2		Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 370-376); Chapter 20 (Pages: 385-399).	1	NA		
						1			
						1			
						1			
			3		Carson, R. (2002). <i>Silent Spring</i> . Houghton Mifflin Harcourt, USA.	1	NA		
						1			
						2			
						1			

S. No.	Month	Week No.	Unit/Topic	Resource/ References/ Recommended readings	No. of lectures	No. of Tutorials	Internal Assessment	Remarks
		4	Unit 7 Human Communities and Environment	Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807).	1	NA		
					1			
					1			
					2			
					1			
				1	NA			
5.	March	1		Revision of syllabus Previous year's paper discussion	1	NA		
				1				
				1				
				1				

TEACHING PLAN

Faculty: Harvinder Singh.

College: Shri Ram College of Commerce.

Paper: AECC Environmental Studies.

Session: 2016-21.

AECC –Environmental Studies (2016-2021)	References	Expected number of lectures
<ul style="list-style-type: none"> - Introduction to Environmental Studies - Scope of environmental studies - Importance of environmental studies - Environmental Studies as a multi-disciplinary subject. - Public awareness - Various spheres of earth. 	<p>Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i>, 8th Edition. Wiley Publishing, USA. Chapter 1 (Pages: 1-17); Chapter 2 (Pages: 22-23); Chapter 3 (Pages: 40, 41); Chapter 4 (Pages: 64, 66).</p> <p>2. Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i>. S. Chand Publishing, New Delhi.</p>	6-7
<ul style="list-style-type: none"> - Definition and concept of Ecosystem. Structure of ecosystem (biotic and abiotic components); - Functions of Ecosystem: Physical (energy flow), Biological (food chains, food web, ecological succession),and Biogeochemical (nutrient cycling) processes. Concepts of productivity, ecological pyramids and homeostasis - Types of Ecosystems: Tundra, Forest, Grassland, Desert, Aquatic (ponds, 	<p>1. Odum, E.P., Odum, H.T., and Andrews, J. (1971). <i>Fundamentals of Ecology</i>. Saunders, Philadelphia, USA. Chapter 1 (Pages: 1-16); Chapter 2 (Pages: 18-76); Chapter 10 (Pages:414-458).</p> <p>2. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. (2015). <i>Environment</i>, 9th Edition. Wiley Publishing, USA. Chapter 3 (Pages: 38-52); Chapter 4 (Pages: 53-62); Chapter 5 (Pages: 100-103); Chapter 6 (Pages: 106-128).</p> <p>3. Singh, J.S., Singh, S.P., and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i>. S. Chand Publishing, New Delhi. Chapter 13 (Pages: 307-323); Chapter 18 (Pages: 420-442); Chapter 28 (Pages: 747-769). Chapter 1 (Page: 3-28).</p>	<p>2-3</p> <p>5-7</p> <p>4-5</p>

TEACHING PLAN

Faculty: Harvinder Singh.

College: Shri Ram College of Commerce.

Paper: AECC Environmental Studies.

Session: 2016-21.

<p>&interstate conflicts over water.</p> <ul style="list-style-type: none"> - Energy resources: Renewable and non-renewable energy sources; Use of alternate energy sources; Growing energy needs; Energy contents of coal, petroleum, natural gas and bio gas; Agro-residues as a biomass energy source. - Case studies: Contemporary Indian issues related to mining, dams, forests, energy,etc (e.g., National Solar Mission, Cauvery river water conflict, Sardar Sarovar dam. - Chipko movement, Appiko movement, Tarun Bharat Sangh, etc) 		<p>4-5</p> <p>3-4</p>
<ul style="list-style-type: none"> - Definition of Biodiversity; Levels of biological diversity: genetic, species and ecosystem diversity -]India as a mega-biodiversity nation; Biogeographic zones of India; Biodiversity hotspots; Endemic and endangered species of India; IUCN Red list criteria and categories 	<p>1.Primack, R.B. (2014). <i>Essentials of Conservation Biology</i>, Oxford University Press, USA. Page. 1-536</p> <p>.</p> <p>2. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i>, 9th Edition. Wiley Publishing, USA. Chapter 5 (Pages: 97-99); Chapter 16 (Pages: 299-318).</p> <p>3. Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i>. S. Chand Publishing,</p>	<p>1</p> <p>3-4</p>

TEACHING PLAN

Faculty: Harvinder Singh.

College: Shri Ram College of Commerce.

Paper: AECC Environmental Studies.

Session: 2016-21.

<ul style="list-style-type: none"> - Value of biodiversity: Ecological, economic, social, ethical, aesthetic, and informational values of biodiversity with examples; sacred groves and their importance with examples 	<p>New Delhi. Chapters 24 (Pages: 599-690); Chapter 26 (Pages: 664-714).</p>	<p>2-3</p>
<ul style="list-style-type: none"> - Threats to biodiversity: Habitat loss, degradation, and fragmentation; Poaching of wildlife; Man-wildlife conflicts; Biological invasion with emphasis on Indian biodiversity; Current mass extinction crisis. 		<p>3-4</p>
<ul style="list-style-type: none"> - Biodiversity conservation strategies: in-situ and ex-situ methods of conservation; National Parks, Wildlife Sanctuaries, and Biosphere reserves; Keystone, Flagship, Umbrella, and Indicator species; Species reintroduction and translocation. 		<p>3-4</p>
<ul style="list-style-type: none"> - <i>Case studies:</i> Contemporary Indian wildlife and biodiversity issues, movements, and projects (e.g., Project Tiger, Project 		<p>2-3</p>

TEACHING PLAN

Faculty: Harvinder Singh.

College: Shri Ram College of Commerce.

Paper: AECC Environmental Studies.

Session: 2016-21.

<p>Elephant, Vulture breeding program, Project Great Indian Bustard, Crocodile conservation project,</p> <p>- Silent Valley movement. Save Western Ghats movement, etc.)</p>		
<p>- Environmental pollution (Air, water, soil, thermal, and noise): causes, effects, and controls; Primary and secondary air pollutants; Air and water quality standards.</p> <p>- Nuclear hazards and human health risks.</p> <p>- Solid waste management: Control measures for various types of urban, industrial waste, Hazardous waste, E-waste, etc; Waste segregation and disposal.</p> <p>- Pollution case studies: Ganga Action plan (GAP), Delhi air pollution and public health issues, Plastic waste management rules, Bhopal gas tragedy,</p>	<p>Brusseau, M.L., Pepper, I.L. and Gerba, C.P. (2019). <i>1.Environmental and Pollution Science</i>, 3rd Edition. Academic Press, USA. Chapter 16 (Pages: 243-255); Chapter 18 (Pages: 280-305); Chapter 21 (Pages: 352-358); Chapter 22 (Pages: 365-374); Chapter 23 (Pages: 378-388); Chapter 25 (Pages: 416-426).</p> <p>2. Carson, R. (2002). <i>Silent Spring</i>. Houghton Mifflin Harcourt, USA.</p> <p>3. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i>, 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 359-381); Chapter 21 (Pages: 401-421); Chapter 23 (Pages: 440-453).</p> <p>4. Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i>. S. Chand Publishing, New Delhi. Chapters 19, 20, 12 (Pages: 445-535).</p>	<p>5-6</p> <p>1</p> <p>1</p> <p>2-3</p>
<p>- Causes of Climate change, Global</p>	<p>1. Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and</i></p>	<p>3-4</p>

TEACHING PLAN

Faculty: Harvinder Singh.

College: Shri Ram College of Commerce.

Paper: AECC Environmental Studies.

Session: 2016-21.

<p>warming, Ozone layer depletion, and Acid rain; Impacts on human communities, biodiversity, global economy, and agriculture.</p> <p>- International agreements and programmes: Earth Summit, UNFCCC, Montreal and Kyoto protocols, Convention on Biological Diversity(CBD), Ramsar convention, The Chemical Weapons Convention (CWC), UNEP, CITES, etc</p>	<p><i>Policy in India: Cases, Material & Statutes</i>, 2nd Edition. Oxford University Press, India. Chapter 2 (Pages: 23-39); Chapter 3(Pages: 41-86).</p> <p>2. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i>, 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 370-376); Chapter 20 (Pages: 385-399).</p> <p>3. Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i>. S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807).</p>	<p>2-3</p>
<p>- Sustainable Development Goals: India's National Action Plan on Climate Change and its major missions</p>		<p>1-2</p>
<p>- Environment legislation in India: Wildlife Protection Act, 1972; Water (Prevention and Control of Pollution) Act, 1974; Forest (Conservation) Act 1980; Air (Prevention & Control of Pollution) Act, 1981; Environment Protection Act, 1986; Scheduled Tribes and other Traditional Forest Dwellers</p>		<p>1-2</p>

TEACHING PLAN

Faculty: Harvinder Singh.

College: Shri Ram College of Commerce.

Paper: AECC Environmental Studies.

Session: 2016-21.

(Recognition of Forest Rights) Act, 2006		
<ul style="list-style-type: none"> - Human population growth: Impacts on environment, human health, and welfare; Carbon foot-print 	1.Divan, S. and Rosencranz, A. (2002). Environmental Law and Policy in India: Cases, Material & Statutes, 2nd Edition. Oxford University Press, India. Chapter 10 (Pages: 416-473).	1-2
<ul style="list-style-type: none"> - Resettlement and rehabilitation of developmental project affected persons and communities; relevant case studies 	2. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). Environment, 9thEdition. Wiley Publishing, USA. Chapter 2 (Pages: 33-36); Chapter 8 (Pages: 148-162).	1-2
<ul style="list-style-type: none"> - Environmental movements: Chipko movement, Appiko movement, Silent valley movement, Bishnois of Rajasthan, Narmada Bachao Andolan, etc. 	3. Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi. Chapter 1 (Pages: 23-26); Chapter 31 (Pages: 826-842).	1-2
<ul style="list-style-type: none"> - Environmental justice: National Green Tribunal and its importance. 		1-2
<ul style="list-style-type: none"> - Environmental philosophy: Environmental ethics; Role of various religious and cultural practices in environmental conservation. 		1-2
<ul style="list-style-type: none"> - Environmental communication and public awareness: case studies (e.g., CNG vehicles in Delhi, Swachh Bharat 		1

TEACHING PLAN

Faculty: Harvinder Singh.

College: Shri Ram College of Commerce.

Paper: AECC Environmental Studies.

Session: 2016-21.

Abhiyan, National Environment Awareness. - Campaign (NEAC), National Green Corps (NGC) "Eco-club" programme, etc.)		1
---	--	---