Choice Based Credit System (CBCS): Syllabus in Geography

Semester- 4 (Marks-350, Credit- 26)

(17141775 550) Create 20)							
COURSE	COURSE NAME	CREDIT	IA	ESE	TOTAL	HRS/WEEK	
OPTED							
CORE	Regional Planning and Development	6	15	60	75	05-01-	
COURSE						2000	
(CC8)							
CORE	Environmental Geography	4	15	40	75	4-0-0	
COURSE							
(CC10)							
		2		20		0-0-4	
CORE	Economic Geography	6	15	60	75	5-1-0	
COURSE							
(CC 9)							
SEC 1	COMPUTER BASICS AND APPLICATION	2	10	40	50	0-0-4	

CC8 (Theoretical): Regional Planning and Development (60 Marks / 6 Credits)

Unit	S.N.	Topic	Teacher
Unit 1: Regional Planning 1 Concept and Classification of Regions 2 Types of Planning; Principles and Techniques of Regional Planning		RD	
		,, ,	RD
	3 Need for Regional Planning; Multilevel Planning in India		RD
	4	Metropolitan Concept: Metropolis, Metropolitan Areas, Metropolitan Region	RD
<u>Unit II</u> 1 Development: Meaning, Growth versus Development Regional		BD	
<u>Development</u>	2	Models for Regional Development: Growth Pole (Perroux) and Core Periphery (Hirschman)	BD
	3	Model for Regional Development in India: Growth Foci (R.P.Misra)	BD
	4	Concept of Regional Inequality and Disparity	BD
	5	Human Development: Significance, Indicators and Measurement	BD
	6	Status of Regional Imbalances in India	BD
7 Strate		Strategies for Regional Development in India	BD
	8	NITI Aayog and its Functions	BD

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Misra , R.P, Sundaram K.V, PrakashRao , VLS (1974): Regional Development Planningin India , Vikas Publication , New Delhi
Misra, R.P (1992): Regional Planning: Concepts, techniques, Policies and Case Studies, Concept, New Delhi
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William Thomas, Christopher A.J.(2013): Rural development:concept and recent approaches.2013(for growth versus development, pp:1-4)

CC 9 – (Theoretical): Economic Geography (60 Marks / 6 Credits)

Unit	S.N.	Торіс	Teacher
Unit 1: Concepts			RH
2 Concepts in Economic Geography: Goods; Services; Prod Consumption		Concepts in Economic Geography: Goods; Services; Production; Consumption	RH
	3	Factors Influencing Location of Economic Activity and Forces of Agglomeration	RH
	4	Determining Factors of Transport Cost	RH
Unit II Economic	1	Concept and Classification of Economic Activities	AB
Activities	2	Location Theories: Von Thünenand Alfred Weber	АВ
	3	Primary Activities: Subsistence and Commercial Agriculture; Forestry; Fishing	АВ
	4	Secondary Activities: Manufacturing (Iron and Steel in India and Japan, Petrochemical in India and USA)	AB
	5	Tertiary Activities: Types of Trade and Services	AB
	6	Agricultural Systems: Tea Plantation in India and Mixed Farming in Europe	AB
	7	Highways: Roles in Economic Development of Indiasince 1990s	AB
	8	International Trade Blocs: WTO and OPEC	AB

References



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- □ Coe N. M., Kelly P. F. and Yeung H. W., 2007: Economic Geography: A Contemporary Introduction, Wiley-Blackwell
- Hodder B. W. and Lee Roger, 1974: Economic Geography, Taylor and Francis CombesP.,
 Mayer T. and Thisse J. F., 2008: Economic Geography: The Integration of Regions and
 Nations, Princeton University Press
- □ Wheeler J. O., 1998: Economic Geography, Wiley
- ☐ Anish Chottopadhaya (Bengali Book)

CC 10 – Environmental Geography (40 Marks / 4 Credits)

Unit	S.N.	Торіс	Teacher
Environmental Issues	1	Geographers' Approach to Environmental Studies	RD
	2	Changes in Perception of Environment in different stages of Human Civilization	RD
	3	Ecosystem: Concept, Structure and Functions	BD
	4	Environmental Degradation and Pollution: Water and Air	BD
	5 Environmental Issues related to Agriculture		AB
	6	Urban Environmental issues related to Waste Management	АВ
	7	Concept and Issues related to Bio-diversity	RH
	8	Environmental Programs and Policies on Forest and Wetland: National and Global	RH

CC 10 – Environmental Geography Practical (20 Marks / 2 Credits)

S.N.	Topic	Teacher
1	Preparation of questionnaire for perception survey on environmental problems	
2	2 Environmental Impact Assessment: Leopold Matrix	
3	Quality assessment of soil using field kit: pH and NPK	RD
4	Interpretation of air quality using CPCB / WBPCB data	АВ
	*A Project File, comprising one exercise each is to be submitted	

References



- 1. Chandna R. C., 2002. Environmental Geography. Kalyani, Ludhiana.
- 2. Cunninghum W. P. and Cunninghum M. A., 2004. Principals of

- environmentalcience: Inquiry and Applications. Tata Macgraw Hill, New Delhi.
- 3. Goudie A. 2001. The Nature of the Environment. Blackwell, Oxford.
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- 5. MoEF, 2006. National Environmental Policy-2006. Ministry of Environment and Forests, Government of India.
- 6. Odum, E. P. et al. 2005. Fundamentals of Ecology. Ceneage Learning, India.
- 7. Sharma, P.D.2015. Ecology and Environment. Rastogi Publications, Meerut.
- 8. Singh, R.B. (Eds.) (2009) Biogeography and Biodiversity. Rawat Publication, Jaipur.
- Singh, R.B. and Hietala, R. (Eds.) (2014) Livelihood security in Northwestern
 Himalaya: Case studies from changing socio-economic environments in Himachal
 Pradesh, India. Advances in Geographical and Environmental Studies. Springer.
- 10. Singh, S. 1997. Environmental Geography. PrayagPustakBhawan. Allahabad.
- 11. Singh, R.B. 1998. Ecological Techniques and Approaches to Vulnerable Environment. Oxford & IBH Pub, New Delhi.
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- 13. Basu, R.andBhaduri, S.(Eds.).2007.Contemporary Issues and Techniques in Geography. Progressive Publishers, Kolkata.
- 14. Shankar Adhikary (Bengali Book)
- 15. Yudhistir Hazra (Bengali Book)

*	SEC 2 – (Practical) : ADVANCED SPATIAL STATISTICAL TECHNIQUES	Credit:	2	Total
	Marks: 50 (30+ 10+10(5+5))			

3 questions to be answered, each question carries 10 Marks, Total 30 Marks;
Evaluation of Laboratory Note Book 5 Marks
Viva-Voce 5 Marks
Internal Assessment: 10 (Assessment 05 + 05) Marks

S.N.	Торіс					
1	Concept of Probability and Normal Distribution and their Geographical					
	Applications, Skewness (Pearson's Method)					
2	Differences between Spatial and non-Spatial data, Nearest Neighbour	RD, RH				
	Analysis					
3	3 Correlation and Regression Analysis, t-test, Spearman's Rank Correlation Product Moment Correlation; Linear Regression					
4	Time Series Analysis; Smoothing time series by Least Square and/or Moving Average Method					
*Analysis using MS Excel not earlier than 2007 Version, is to be practiced for Unit 3 and Unit 4 *A Project File Consisting of Four Exercises on the above Themes is to be						
	Submitted					