BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE PILANI HYDERABAD CAMPUS

Second Semester: 2023-2024

Course Handout (Part-II)

Date: 09.01.2024

In addition to Part-I (General Handout for all courses appended to the timetable) this portion gives further specific details regarding the course

Course No. : ECON F416

Course Title : Regional Economics

Instructor-in-Charge: Prof. Vivekananda Mukherjee

1. Couse Description

Human habitation and productive activities are highly concentrated over the earth. Most of the lands are either sparsely populated or lie unused. The unequal prosperity of some states/regions in a country vis-à-vis the other states/regions, and that of the cities' vis-a-vis the villages, are examples of this phenomenon. Why does the spatial concentration occur and sustain? While physical geography can explain a part of the above observation, economic forces play a major role in explaining spatial concentration. The course introduces the students to these economic forces. It discusses both the theories and the statistical methods that test the theories with data. The public policy implications are also discussed. **Prerequisites include an understanding of microeconomics and the regression method.**

2. Course Goals

- Students will learn how the locations are chosen for production and habitation
- Students will learn how to study convergence/divergence across regions
- Students will learn about the rural-urban/urban-urban migration
- Students will learn how a cityscape develops
- Students will learn about the road-congestion problem, its impact, and the solution
- Students will learn about the construction of quality-of-life index for different cities

3. Text Books

T1: Jan K. Brueckner (2011): *Lectures on Urban Economics*, Cambridge, MA: MIT Press (Low price Indian edition (PHE) is available) Chapters 1,2,3,5,11

4. Reference Books/Papers

R1: Roberta Capello (2016): *Regional Economics*, 2nd Edition, London: Routledge (Available at the Library), Chapter 1,2

R2: Stef Proost and J-F Thisse (2019): What can be Learned from Spatial Economics?, *Journal of Economic Literature* 57(3), 575 – 643.

R3: Jan Tirole (1988): *Theory of Industrial Organization*, MA: MIT Press, Chapter 7.

R4: Oz Shy (1995): *Industrial Organization: Theory and Applications*, MA: MIT Press, Chapter 7.

R5: Debraj Ray (1998): Development Economics, Oxford University Press, Chapter 6.

5. Additional Readings

A1: Paul Krugman (1997): *Development, Geography and Economic Theory*, Cambridge, MA: MIT Press.

Papers from Journals:

A2: Trapezenikova (2020)

A3: Dasgupta et al. (2000)

A4: Bleakley and Lin (2012)

A5: Rosenthal and Strange (2003)

A6: Robert-Nicourd (2005)

6. Course Plan

Lectur	Learning Objective(s)	Topics to be	Reference (Book)
e No.		covered	
I	Introduction		
1 - 2	Questions asked in the study	Introduction to	T1, Chapter 1
	of Regional Economics	Regional	R1, Chapter 1
		Economics and	R2
		Overview of the	
		course	
3 - 4	Measurement of inequality	Lorenz curve,	R5, Chapter 6
	and convergence/divergence	Coefficient of	A2, A3
	of regions	Variation, Gini	
		Coefficient, σ -	
		convergence	
II	Basic Forces that Explain		
	Regional Concentration		
5 – 10	Forces of agglomeration and	Economies of	T1, Chapter 1
	dispersion	Scale and	R1, Chapter 1
		Transport Cost	R2, A4, A5

11 - 15	Location decision of Firms	The Early Spatial Models	T1, Chapter 1 R1, Chapter 1 R2, R3, R4
16 –	Interaction between	Krugman's Model	T1, Chapter 1
24	economies of scale, transport	of Economic	A2,
	cost and pecuniary	Geography	R2, A6
	agglomeration		
III	Analysis of Urban Spatial		
	Structure		
25 –	Behavior housing prices,	Closed City	T1, Chapter 2
29	rents, building heights,	Models,	R1, Chapter 2
	population density at	Comparative	
	different parts of a city and	Statics	
	across cities; determination of		
20	the boundary of a city	A C'' ''I D' I	T4 Cl + 2
30 -	Where the rich and poor	A City with Rich	T1, Chapter 2
31	would live in a city	and Poor	R1, Chapter 2
32 -	Effect of Freeway, City with	Extensions of the	T1, Chapter 3
33	Sub-centres, Segregation	Basic Urban	
	within the city, Effect of internet revolution: work from	Model	
	home		
IV	Cities in Developing		
1	Countries		
34 -	Why cities in developing	Rural-urban	T1, Chapter 3
35	countries are very large; why	Migration	Papers
	everyone does not leave rural	iviigi acion	1 apers
	areas to migrate to the cities;		
	whether rural-urban		
	migration is good		
V	Problems of Commuting to		
	the City		
36 -	Congestion problem on	Freeway	T1, Chapter 5
38	highways and its solution	Congestion	-
VI	Urban-urban Migration		
38 –	Model of urban-urban	Urban Quality of	T1, Chapter 11
40	migration, construction of	Life	
	quality-of-life index of cities	Measurement	

7. Evaluation Scheme

Sr.	Component	Duratio	Weighta	Date and	Remark
No		n	ge (%)	Time	

1	Mid-term Test	90	30	11/03 -	Open/
		minute		4.00 -	closed
		S		5.30PM	Book
2	Quiz (surprise/announced)		30	To be	Open Book
	/Assignment/Presentation			announc	
				ed	
				during	
				the class	
3	Comprehensive	180	40	07/05 AN	Closed
	Examination	minute			Book
		S			

8. Chamber Consultation Hour

To be announced in the class

9. Notices

All materials/information on the course will be uploaded/will be available at the Library.

10. Make-up policy

In quiz/assignment/presentation no make-up will be given. In other evaluation components make-up will be given only in genuine cases of absence. Prior permission of the Instructor-in-charge, before the examination, is necessary, if the absence is anticipated due to medical reasons supported by an authorized document from the Medical Centre and ARC. In exceptional circumstances, the request for make-up should reach the Instructor-in- charge at the earliest.

11. Academic Honesty and Integrity Policy: Academic honesty and integrity are to be maintained by all the students throughout the semester and no type of academic dishonesty is acceptable.

Vivekananda Mukherjee Instruction-in-Charge ECON F416