BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE PILANI, HYDERABAD CAMPUS

Second Semester: 2021-2022

Course Handout (Part-II)

Date: 15.01.2022

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

The human habitation and productive activities are highly concentrated over the earth. The most of the lands are either sparsely populated or lies unused. The unequal prosperity of some states/regions in a country vis-à-vis the other states/regions, 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 the 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. Pre-requisites include understanding of the basic 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 solution
- Students will learn about the construction of quality-of-life index of 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) Chapter 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.

5. Additional Readings

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

Papers from Journals.

6. Course Plan

Lectur	Learning Objective(s)	Topics to be covered	Chapter in the
e No.			Textbook
I	Introduction		
1 - 2	Questions asked in the	Introduction to	T1, Chapter 1
	study of Regional	Regional Economics	R1, Chapter 1
	Economics	and Overview of the	R2
		course	
3 - 4	Measurement of	Regional	Papers
	convergence/divergence of	Convergence/Diverge	
	regions	nce	
II	Basic Forces that Explain		
	Regional Concentration		
5 – 10	Forces of agglomeration	Economies of Scale	T1, Chapter 1
	and dispersion	and Transport Cost	R1, Chapter 1
			R2, Papers
11 –	Location decision of Firms	The Early Spatial	T1, Chapter 1
14	and Households	Models	R1, Chapter 1
			R2, R3, R4
15 –	Interaction between	Krugman's Model of	T1, Chapter 1
19	economies of scale and	Economic Geography	A1,
	transport cost		R2, Papers
III	Analysis of Urban Spatial		
	Structure		
20 –	Behavior housing prices,	Closed City Models,	T1, Chapter 2
25	rents, building heights,	Comparative Statics	R1, Chapter 2
	population density at		

	different parts of a city and across cities; determination of the boundary of a city		
26	Where the rich and poor would live in a city	A City with Rich and Poor	T1, Chapter 2 R1, Chapter 2
27 –	Effect of Freeway, City with	Extensions of the	T1, Chapter 3
29	Sub-centres, Segregation within the city, Effect of internet revolution: work from home	Basic Urban Model	
IV	Cities in Developing		
	Countries		
30 –	Why cities in developing	Rural-urban	T1, Chapter 3
32	countries are very large; why everyone does not leave rural areas to migrate to the cities; whether rural-urban migration is good	Migration	Papers
V	Problems of Commuting		
	to the City		
33 –	Congestion problem on	Freeway Congestion	T1, Chapter 5
36	highways and its solution		
VI	Urban-urban Migration		
37 – 40	Model of urban-urban migration, construction of quality-of-life index of cities	Urban Quality of Life Measurement	T1, Chapter 11

7. Evaluation Scheme

Sr.	Component	Duratio	Weighta	Date and	Nature of
No		n	ge (%)	Time	Componen
					t
1	Mid-term Test	90	30	12/03	Open Book
		minute		9.00am	
		S		to10.30a	
				m	
2	Quiz/Assignment/		30	To be	Closed/
	Presentation			announc	Open Book
				ed	
				during	
				the class	
3	Comprehensive	120	40	11/05 FN	Closed
	Examination	minute			Book
		S			

8. Chamber Consultation Hour To be announced in the class

9. Notices

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

10. Make-up policy

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 reason supported by 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