GBO Semester II Year: 2019-2020

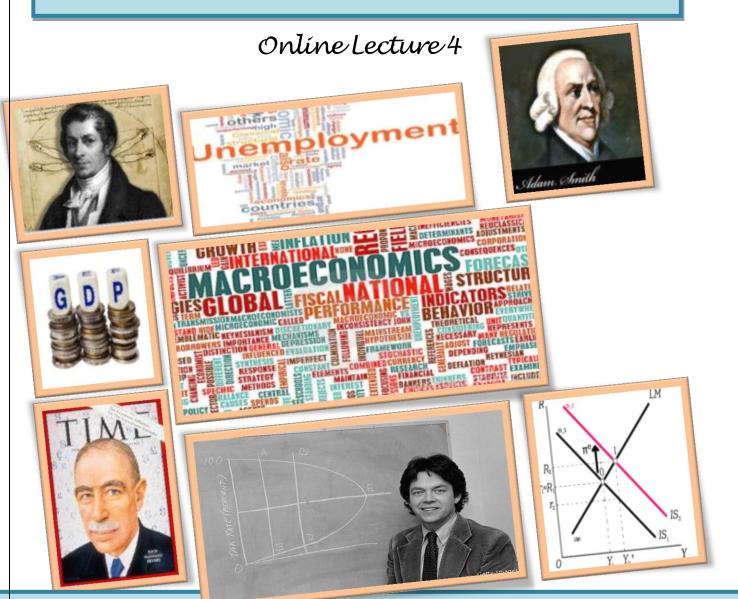
Paper Code: 2.1 Paper Title: Global Business Environment

Faculty: Prof. Simrit Kaur and Dr. Amit Sachdeva



Prof. Simrit Kaur

ECONOMICSGLOBAL BUSINESS ENVIRONMENT



THE IS-LM FRAMEWORK

MONETARY POLICY AND CONCLUDING REMARKS

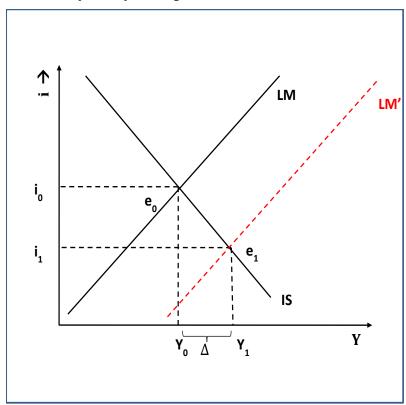
(MONEY DOES NOT MATTER; MONEY ALONE MATTERS; AND MONEY ALSO MATTERS)

Simultaneous Determination of Income and Interest and Corresponding Changes in Interest and Income: An IS-LM Analysis

Structure of Class:

- Monetary Policy Expansion: Shift of LM Curve (Graphical Representation)
- Mathematical Derivation
- Money Does Not Matter; Money Alone Matters; Money Also Matters

Monetary Expansion: Monetary Policy Multiplier (LM Shifts)



Mathematical Derivation:

$$y = \propto_g (\bar{A} - b i)$$
 ------ Equation of IS curve - **Eqn 1**

$$i = \frac{1}{h}(ky - \frac{M}{P})$$
 ----- Equation of LM curve - Eqn 2

Inserting Eqn 2 in Eqn 1 we get

$$y = \propto_g \left[\bar{A} - \frac{b}{h} \left(ky - \frac{M}{P} \right) \right]$$

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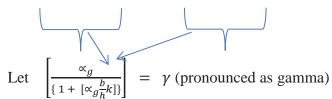
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$$y = \left[\propto_g \bar{A} \right] - \left[\propto_g \frac{b}{h} k \right] y + \left[\propto_g \frac{b}{h} \frac{M}{P} \right]$$

$$y + \left[\propto_g \frac{b}{h} k \right] y = \left[\propto_g \bar{A} \right] + \left[\propto_g \frac{b}{h} \frac{M}{P} \right]$$

$$y\{1 + \left[\propto_g \frac{b}{h} k \right] \} = \left[\propto_g \bar{A} \right] + \left[\propto_g \frac{b}{h} \frac{M}{P} \right]$$

$$y = \left[\frac{\alpha_g}{\left\{1 + \left[\alpha_g \frac{b}{h} k\right]\right\}} \bar{A} + \left[\frac{\alpha_g}{\left\{1 + \left[\alpha_g \frac{b}{h} k\right]\right\}}\right] \frac{b}{h} \frac{M}{P}$$



$$y = \gamma \bar{A} + \gamma \frac{b}{h} \frac{M}{P}$$
 Determination of Equilibrium Income in IS-LM

Where:

$$\bar{A} = C_0 - cT + c \, \bar{T} \bar{R} + \bar{I} + \bar{G}$$

$$\frac{\Delta y}{\Delta \frac{M}{R}} = \gamma \frac{b}{h}$$
 Change in income due to change in Money Supply:

It represents Monetary Policy Multiplier in IS-LM framework

Money Alone Matters, Money Does Not Matter and Money Also Matters (The Seven Graphs)

Semester II Year: 2019-2020 Paper Code: 2.1 Paper Title: Global Business Environment Faculty: Prof. Simrit Kaur and Dr. Amit Sachdeva EMP - Intermediate Region EFP -Intermediate Region i -> i **→** INTERMEDIATE REGION ۲, GRAPH 804 GRAPH 001 Crowdingout Ξ EMP - Classical Region i **→ CLASSICAL REGION** Ξ ₹ Z, $i \rightarrow$ $i \rightarrow$ Keynesian Region **KEYNESIAN REGION**

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Concluding Remarks:

Money does not matter

- 1. In this case Monetary policy is totally ineffective in increasing the level of income, while Fiscal policy is fully effective.
- 2. This occurs in the Liquidity Trap Region, wherein LM curve is horizontal.

Money alone matters

- 1. Monetary policy matters , but Fiscal policy does not matter
- 2. Case of Vertical LM Curve; wherein MP is fully effective, while Fiscal Policy is totally ineffective (full crowding out).

Money also matters

- 1. Both Monetary and Fiscal policy matter.
- 2. In the intermediate region of LM curve, both monetary and fiscal policy are effective in increasing Income levels, provided IS curve is not vertical.

Preview of Next Lecture

Perfect Capital Mobility: The Mundell-Fleming Model

- ➤ With Flexible Exchange Rates
- ➤ With Fixed Exchange Rates
- ➤ Beggar Thy Neighbour Policy: Competitive Depreciation