

M A Economics Semester II

Paper: Macroeconomics (CC 08)Topic: IS-LM modelContent By: Mugdha Mohini, Department of Economics



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2. J: Make an evaluation of IS-LN model of value of money. > The keynes in this analysis of national income explaine that notional income is determined at the ilevel where aggregate demand for consumption and unucstment goode (C+I) equals aggregate output, In other noords, in deques simple model, the level of national income is shown to be determined by the goods manleet equilibrium, the mate of interest, according to reques, is determined by money market equilibrium by the demand for and supply of noncy. Hicks, Hansen, Lerner and Johnson have put forward a complete and integrated model based on the Requestan francework wherein the Mariables such as amestment, national income, water of interest, demand for and supply of money are interrotated and mitually interdependent and Can be represented by the ters curves called the IS and LM curves. This extended keynesian model is therefore tenaum as IS - IN nodely The model emphasice the interaction between the

goods and noncy markets. The goode market is in equilibrium utren aggregate demand is equal to income. The aggregate demand is determined by consumption demand and investment demand. In the keynesian model of good manket equilibrium, the Mate of interest is an important determinant of ancitment, when the vate of interest falls, the flavel of investment increases and rice wasa, thus changes in the mate of interest affect aggregate demand by causing thanges in the investment demand, when the wate of interest falls, it lawer the cost of innest, projects and thereby reases the profitability of investment, In the determination derivation of the IS curve, the equilibrium devel of notional income as determined by the equilibrium in goods market by a devel of invert. determined by a given rate of interest. Hur, IS wave villates different equilibriu levels of national uncome with larlow rates of interest, with a fall in the vate of interest, the planned investment will increase which will Cause an upward shift in aggregate demand function

(C+ I) resulting in goods market equilibrium at a higher devel of mational income. The down the rate of interest, the higher will be the equilibrium down

of national income. Thus, the IS come is the docus of those combinations of state of interest and the level of national income at which goods market is in equilibrium. y= ets 7个 41 1352 62 Juleloit YAI: Ratest AIL Agel MPS ATI P.F. yo Nation x D To Paulle 0 Planned Investment fance co yt 10 43 Y. Rate D r. 25 ¥2 y1 90 0 National Income Derivation of IS unve Pavel (c).

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In the Paul (a), the welate cuship bet " water of interest and planned invest, is depicted by the II curve. At the wate of interest Oro, the planned innest. in equal to OTO. with OTO, the AD curve is C+ Io as shawer in Pauce (b) equale aggregate Dubput at DYo devel of national income. Therefore in Panelle), against Oro, devel of income equal to O'Yo has been platted. Now, if the wate of interest falls to OP, the AD curve shifts upward to C+ Is and goods market is in equilibrium at 04, level of notional iencome and so on. Thue, by forming A, B and D, we obtain the Is curve. The IS curve is dournerard. sloping which implies that when wate of interest declines, the equilibrium of national uncome increases.

Features of the IS curve :-

1. The IS curve is dourneard stoping live, has a negative slope) 2. The Is are is platter when the interest clasticity of investment is high. 3. The IS clerice is steeper when investment demand is des clastic to the changes in the vate of interest.

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4. The IS curve while shift to the night when government expenditure increases and when versa.

5. The IS curve Mifts to the wight when autonomeexpenditure uncreases and vice versa. 6. The IS curve shifts to the deft when tax increases and vice versa.

Money Market Equilibrium : LM curve :- the money market is in equilibrium user the demand for and supply of money are equal, According to keynes, demand for money to hold depende upon transactions motive and speculative motive. It is the money held for transactions motive which is a feurition of income. The greater the devel of income, the greater the amount of money held for transactions protive and therefore higher the level of money demand curve. The demand for money depends on the devel of income. It also depende on the vote of interest reclicely is the lost of holding mancy. thus, demand for money (Md) can be written as:-Md = L(Y, r).Now, the intersection of these various

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money demand curves corresponding to different uncome devels with the supply curve of money fixed by the monetary authority would gives us the KM curve, the LM curve selates the develop income with the state of interest which is determined by money - market equilibrium corresponding to different levels of demand for noney. 4=1 .YT 7月 Ms r. 12 14 M2 ,(Y2) M1,(41) Md, (40) no 0 Me 40 4. 92 Quantity of Money have of Income Derivation of LM curve In the guien fig, we have derived the LM curve from a panely of demand curves for mancy, As uncome increases, money demand shifts outwoord

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and therefore the vate of interest which equates supply of money with domand for money vuice. the measure income on the re-ares. Features of LN curve :-Le Jue LA curve is a schedule. that describes the combinations of mate of interest and level of income at which woncy market is in equilebrium. 2. the the unrue slopes upward to the right. 8. The lower the elasticity of demand for many for speculative notive with respect to the changes in the state of interest, the steeper will be the LA curve 4. The ful euro will be flatter if the elasticity of demand - function to the changes in the rate of interest is high. 5. The LAC curve shifts to the vight when the stock of money supply is increased and it slifts to the deptiling the shele of money supply is redeced. 6. The LAL curve, dlifts to the left if there is an increase in the money demand function and we're usea.

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Simultaneous Equilibrium of the Goods Market and Money Market :the IS and KM curves welate the two variably income and the rate of interest. Income and the state of interest are therefore actermined together at the point of intersection of these two unver, i.e. E in the given fig. the equilibrium wate of interest this determined is Org and the devel of income 042 il determined. 5 13 10K Rate Fi 10 y, Tr 43 30 44 Y2 ... yu National Juranie this, the IS-LAL model is based on :i) the uniestment-demand function is the consemption function (iii) the money demand function in the quantity of money

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Cruticisms :-

The IS - LM model is not without limitations. These are as follows :-

I. It is based on the assumption that the seate of interest is quite florible, that is, free to vary and not nigidly fixed by the central Bank of a country.

2. The model is based on the assemption that investment is interest-elastic, i.e., investment varies with the wate of interest. If it is so, then the IS- LM model breaks down since the required adjustments do not Occur,

3. Don Patinkin and Milton Finiedman have criticused the IS-LN model as being itoo artificial and oversimplified. Division of the economy into 2 sectors is artificial and emrealistic.

4. Patinkin has pointed out that the IS-IM model has ignored the possibilities of changes in the price level of commodities.

Conclusion :- Despite Mese Muitations, IS-LAL model in represents a more general, inclusive

and realistic approach to the determination of the rate of interest and the level of income. Further, it succeeds, in integrating and synthesisting fical with monetary palicies, and theory of micome determination with the theory of money. Scanned by CamScanner