

# Policy Decisions by Central Banks: The Fed, the ECB and the BOI

Fall 2019

Professor Zvi Eckstein

FNCE 893/393

August 27, 2019 to October 17, 2019

Office hours: SH-DH room 2461, Tuesday 4:30 – 6:00 pm, by appointment

Email: [zeckstein@idc.ac.il](mailto:zeckstein@idc.ac.il)

Homepage: <https://canvas.upenn.edu/courses/1421559>

Telephone: 484-4088322 (mobile)

Class location: FNCE 893/393 JMHH F94, 10:30-11:50;

**Summary:** Understanding and predicting central banking decision making is crucial for all market participants from asset managers and traders to private consumers. This course aims to provide the methods and knowledge on how central banks and governments think and implement policies to reach the goals of price and financial stability as well as support of growth and employment. The core of the course connects between the legal and actual goals that central banks follow and the related economic analysis on which these goals and policies are set. **We explain the economic rationale for the policy prescriptions to reach the goals and how these policies are actually implemented today mainly by the Federal Reserve Bank (Fed) in the US** as well as by the European Central Bank (ECB), Bank of Israel (BOI) and some remarks on other countries. We use data, current events and events of the 2007-2018 period as the basis for discussion and assignments. All these are aimed understanding how and why the Fed, the ECB and the BOI set their policies. For each we shall simulate in class current decisions based on assignments related to past policies and the theory presented in class. We shall start class with discussion of news items.

**Requirements and grading:** Final examinations (55% - passing grade is required); two out of three assignments (cases) done by teams of 3-4 students (20%); one group presentation (10%) **or** extra assignment; active participation in class discussion (15%).

**References:** We refer to one textbook, papers, books, reports, lectures, news items and analysis that were recently published on each of the topics. These are *references* that are supportive information but **are not required** to follow. **For the assignments, we provide necessary readings.**

**Main reference Text:**

- **Andy A. Able, Ben S. Bernanke and Dean Croushore, Macroeconomics, Ninth Edition, Pearson 2017, 2014. (Short: A.B.C., Macroeconomics).**

Optional recommended addition texts to read:

- Ben Bernanke, The Courage to Act: A Memoir of a Crisis and Its Aftermath, W.W. Norton and co., 2015.
- Mishkin, Frederic, S., *"The Economics of Money, Banking and Financial Markets"*, Pearson, 9<sup>th</sup> or 10<sup>th</sup> Editions, 2011 or 2013 or Business School 4<sup>th</sup> Edition.

***Class 1: Introduction: Financial Crisis and Central Banks actions (August 27)***

**Readings**

**Optional Background:**

A.B.C., Macroeconomics, pp. 558-563

More information: Mishkin, chapter 9; 9<sup>th</sup> Ed. p. 268, 273-8, 304. 10<sup>th</sup> Ed. Chapter 9; BC 4<sup>th</sup> Ed – Chapter 12.

***Class 2&3: Inflation and Interest: Foundations (Aug. 29, Sept. 3)***

- Main Question: What is the optimal long run (target) inflation rate?

**Readings**

**Priority:**

- FOMC, “Statement on Longer-Run Goals and Monetary Policy Strategy”, January 29, 2013.
- B. Bernanke, "How big a problem is the lower zero bound on interest rates?" , Blog, April 4, 2017; "The zero lower bound on interest rate: How should the Fed respond?", Blog, April 13, 2017.

- **Optional Background: A.B.C., Macroeconomics**, pp. 255-273; 321-328; 564-568

- **Optional additional:**

1. Mishkin, 9<sup>th</sup> & 10<sup>th</sup> Ed. Chapters: 13, 14, 15, 19; BS 4<sup>th</sup> Ed- ch.3, Ch. 19, Ch. 22, Ch. 23.
2. Lucas, Robert, E. Jr, “Inflation and Welfare”, *Econometrica*, Vol. 68, No. 2. 2000), pp. 247-274.
3. Sargent, Thomas, S., “The End of the Four Big Inflations”, in *Inflation: Causes and Effects*, Robert E. Hall (editor), University of Chicago Press, 1982.

**Assignment 1:** Was the Fed federal fund rate too low too long and was it an important cause of the 2007/8 financial crisis? Readings are in the Assignment. **Due September 10.**

***Class 4&5: The Taylor Rule: How do Central Banks conduct monetary policy? (September 5, 10)***

**Reading** (also for Assignment 1):

**Priority:**

- Bernanke, Ben, S. "Monetary Policy and the Housing Bubble", Speech at the annual meeting of the American Economic Association, 2010, available at: <http://www.federalreserve.gov/newsevents/speech/bernanke20100103a.htm?source=myralestatemoney.com/RENEWS>.
- Taylor, John, B., “The Financial Crisis and the Policy Responses: An Empirical analysis of What Went Wrong” Keynote Speech, 2008.

- Ben S. Bernanke (April 28, 2015), "The Taylor Rule: A benchmark for monetary policy?", Brookings. <http://www.brookings.edu/blogs/ben-bernanke/posts/2015/04/28-taylor-rule-monetary-policy>

- Monetary Policy Report, "Complexity of Monetary Policy rules", p. 37-41, Board of Governors of the Federal Reserve, July 2018.

- **Optional background: A.B.C., Macroeconomics**, pp. 550-559; 568-573.

**Optional additional:**

1. Mishkin, 9<sup>th</sup> and 10<sup>th</sup> Ed. Chapter 16, 23, 24; BS 4<sup>th</sup> Ed. Ch. 18-19, Ch.25.
  2. Taylor, John, "Discretion versus Policy Rules in Practice", in *Carnegie-Rochester Conference Series on Public Policy*, 39 (1993): 195-341.
  3. Taylor, John, B., "Monetary Policy Rules Work and Discretion Doesn't: A Tale of Two Eras", *The Journal of Money, Credit and Banking Lecture*, 2012.
  4. Svensson, Lars E.O., "Inflation Targeting", in Friedman, Benjamin M., and Michael Woodford, eds., *Handbook of Monetary Economics*, Volume 3a and 3b.
- **Assignment 2:** From the QE to normality: what is the path of Fed policy rate? **Due Sept. 17.**
  - **Sept. 10: Discussion and presentations of Assignment 1.**

***Class 6&7: At the Zero Lower Bound of interest rate (September 12, 17)***

- Main question: Can monetary policy be effective at the zero lower bound of interest rate?

- **Reading:**

**Priority:**

B. Bernanke "Shrinking the Fed's balance sheet" B. B. Blog.

- Bernanke, Ben, S., "The Non-Monetary Effects of the Financial Crisis in the Propagation of the Great Depression", *American Economic Review*, Vol. 73, No. 3, 1983, pp. 257-276.
- Bernanke, Ben S., "At the Stamp Lecture", London School of Economics, London, England, January 13, 2009; also Jackson Hole speech, August 21, 2009.
- **Optional: Background: A.B.C., Macroeconomics**, p. 549, 550, 559, 610.

- **Optional additional:**

1. On Secular Stagnation and Fed policy: Read blogs by Larry Summers; Ben Bernanke and Bradford Delong.
2. Mishkin, BS 4<sup>th</sup> Ed. Ch. 6, Ch. 17 p. 403-408 and Web Appendices.

- **September 17: Simulation and discussion of the FOMC decision of 9/18 and Assignment 2.**

## ***Class 8&9: Flexible Inflation Targeting Policy: Model and Practice (September 19, 24)***

- Main question: What is the theory and practice of modern monetary policy analysis?
- **Readings:**

- **Priority:**
- Class notes on DSGE model
- **Background readings:** A.B.C., *Macroeconomics*, pp.434, ch.10.4, 10.5,13.1,13.4

### **Optional additional:**

1. Mishkin, 9<sup>th</sup> Ed. Chapters 20-23; 10<sup>th</sup> Ed. Ch. 20, 22, 25. BS 4<sup>th</sup> Ed. Ch. 23-24 and Web Ch.1-5.
2. Gali, Jordi, "The State of New Keynesian Economics: A Partial Assessment", *Journal of Economic Perspectives*, Volume 32, Number 3, Pages 87–112.
3. Christiano, J. Lawrence J., Martin S. Eichenbaum, and Mathias Trabandt. "On DSGE models", *Journal of Economic Perspectives*, Volume 32, Number 3, Pages 113–140.

- **Assignment 3:** The ECB monetary policy under Mario Draghi: Does it follow a Taylor Rule or only one goal of "price stability"? What is the impact of negative deposit rate and the ECB QE? **Due October 1.**

## ***5. Class 10&11: The European Debt Crisis and ECB monetary policy (September 26 and October 1)***

- Main Question: How does fiscal and monetary policy affect financial stability?
- **Reading**
- **Priority:**
- Mario Draghi, Speech on July 26, 2012, "Whatever it takes".
- Mario Draghi, "Unemployment in the Euro Area", Speech at Jackson Hall, 8/2014.
- **Background readings:** A.B.C., *Macroeconomics*, p. 518, 594-603, 616

### **Optional additional:**

1. Reinhart, Carmen, M., and Rogoff, Kenneth, S., "Debt Overhang: Past and Present", NBER working paper no. 18015, April 2012.
2. Carlo Altavilla, Giacomo Carboni, and Roberto Motto, "Asset purchase programs and financial markets: lessons from the euro area", ECB, November 2015.

### **October 2: Simulation of the next ECB monetary policy decision and assignment 3.**

## ***6. Class 12: Small open economy: Bank of Israel monetary policy framework and negative rates of the Swiss and Sweden central banks (October 3&8).***

- Main question: Should monetary policy include exchange rate intervention?
- **Priority Reading:**

Jacob Braude, "Israel and the Global Crisis: Events, Policy and Lessons", in *The Great Recession: Lessons for Central Bankers*, by J. Braude, Z. Eckstein, K. Flug and S. Fischer (ed.), MIT Press, 2013.

Optional additional:

- Mishkin, 9<sup>th</sup> and 10<sup>th</sup> Ed. Chapters 17, 18; BS 4<sup>th</sup> Ed. Ch. 20-21.
  - **Optional Assignment 4:** Why does the Bank of Israel intervene in the forex market and is it consistent with the Bank's objectives? Due at the examination.
7. ***Class 13: Guest Lecture: Dr. David Woo, Managing Director, Head of Global Interest Rates & Currencies Research, Bank of America-Merrill Lynch***
- ***Global Monetary Policies (October 8)*** at 10:30 class. **Location: JMHH F70**
8. ***Class 14. Review of the Fed, The ECB and BOI monetary policy and predictions to the near future (October 15).***

***FINAL Examination: October 17; 6pm - 8pm. Rooms JMHH 250, 255***

### **Teaching Assistants**

Luke (Min), Kyung-Rok

Office: SH-DH:

Office hours:

email: [lukekmin@wharton.upenn.edu](mailto:lukekmin@wharton.upenn.edu)