

**Dr. Ipsita Roy**

Friedrich Schiller University Jena

ipsita.roy@uni-jena.de

**Dr. Muhammad Ali**

Friedrich Schiller University Jena and Max Planck Institute of Economics

ali.m@uni-jena.de

**Date:**

30 May to 2 June 2016

## COURSE

### Applications of Human Capital in Innovation and Growth

**Course outline**

In this course, we will introduce the concept and types of human capital along with its relationship with innovation and economic growth. We will cover most influential theoretical and empirical studies on the subject and provide several applications of human capital with respect to knowledge dynamics, structural change and innovation. Students will be required to present existing literature on assigned topics twice during the course. In addition, students will also be required to hand in a term report two weeks after the end of the course. Details about the course requirements are mentioned below.

**Exam**

Two presentations: Particulars of the presentations will be decided later depending on the number of participants.

Term paper: Either on the same topic as of presentation or a different one subject to discussion with the speakers.

**Venue**

Friedrich Schiller University Jena, Bachstraße 8k, 07743 Jena, Germany

**Registration**

Please contact Tina Wolf, e-mail: [tina.wolf@uni-jena.de](mailto:tina.wolf@uni-jena.de), until 1 May 2016.

## Schedule of classes

### Day 1, May 30:

#### Concept and Measurements of Human Capital (9:00 – 12:00)

##### Speaker: Ipsita Roy

- Course outline
- Human capital: Foundation and importance
- Concepts
- Measurements and state-of-the-art research

#### Macroeconomic Trends and Relationship between Human Capital and Growth (13:00 – 16:00)

##### Speaker: Muhammad Ali

- Human capital and growth: Cross country (macro) comparison
- Human capital and growth: Endogenous growth theory
- Brief description of the recent empirical studies
- Knowledge spillovers/exchange across borders: A brief introduction

### Day 2, May 31:

#### Presentations (9:00 – 12:00) (depending on the number of participants)

##### Topics

- Resource-based and capabilities-based views of the firm
- Skills and technology

##### Speaker: Ipsita Roy (13:00 – 15:00)

- Absorptive capacity and innovation in firms
- Labour market institutions
- Skill biased technological change

### Day 3, June 1:

#### Presentations (9:00 – 12:00) (depending on the number of participants)

##### Topics

- Theoretical and empirical studies on human capital and growth
- International knowledge spillovers

##### Speaker: Muhammad Ali (13:00 – 15:00)

- Non-linear relationship between human capital and growth
- International knowledge spillovers

### Day 4, June 2:

##### Speaker: Muhammad Ali (10:00 – 12:00)

- Human capital and innovation
- tba

##### Speaker: Ipsita Roy (13:00 – 15:00)

- Labour mobility
- Social capital
- tba