

# **Outcome Based Education (OBE) Curriculum**

**Master of Social Science (MSS) in Economics**



**Department of Economics  
Faculty of Social Science  
Premier University  
Chittagong, Bangladesh.**

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**Title of the Academic Program: Master of Social Science (MSS) in Economics**

**Name of the University: Premier University**

**Vision of the University:**

The vision of Premier University is to become a leading academia in the country and beyond for quality education research and innovations in higher education.

**Mission of the University:**

**Mission 1:** The mission of Premier University is to provide higher education to students.

**Mission 2:** Premier University aims to educate the students through the best possible methods of learning.

**Mission 3:** The higher education Premier University provides will not only disseminate knowledge but also generate an urge among students to create new knowledge, skills and technology.

**Mission 4:** One of the aims of Premier University is to participate in the endeavor of the state of Bangladesh into transforming this country a great seat of learning.

**Mission 5:** Premier University is also committed to disseminate and create scientific and engineering knowledge and skills related to new emerging industrial revolutions.

**Name of the Program Offering Entity:     ECONOMICS**

**Vision of the department of Economics:**

To emerge as a leading department through academic excellence in teaching, learning and research in the field of economics, in order to ensure the sustainable development and welfare of the society.

**Mission of the department of Economics:**

**M1:** To prepare our students through high quality teaching, training and research to contribute to the society.

**M2:** To prepare students to apply economics in a wide range of contemporary issues including the environment, globalization, human diversity and sustainability.

**M3:** To provide students appropriate skills and tools to be competent in their chosen career.

**M4:** To strengthen students in professional, ethical and social dimension through co-curricular activities.

**Objective of the Department of Economics:**

Economics is a diverse and fascinating discipline that addresses a range of issues that we face in modern life and plays a central role in shaping our society at every level. The objective of the Economics department is to understand and shape the broad framework of our society. The programs offered by the Department of Economics are designed to provide a general understanding of the functioning of the economic system and the role of institutions, groups, and regions within that system and prepare the student for employment in industry, the professions, government, or to pursue graduate work toward such advanced degrees in economics, business, or related fields.

**Name of the Degree: Master of Social Science (MSS) in Economics**

**Description of the Program:**

The MSS in Economics is a rigorous graduate program that equips students with a deeper understanding of economic theory and application, which is primarily designed for transition to the doctoral program in Economics. The Master of Social Science (MSS) in Economics program consists of three modes with two streams of specializations:

- **Banking and Finance**
- **Development Studies**

Brief descriptions of the three modes of the MSS program are given below:

**Master of Social Science in Economics (Taught Mode):**

**1 year MSS for 4 years Bachelor degree in Economics:**

The mode consists of 40 credits spread over one year in length divided into two consecutive semesters. These credits are divided into General Education; Core courses; Specialization courses and Elective courses from specialization areas. Students having 4 years of Bachelor's degree in Economics have to complete 40 credit hours in one year. Apart from that, students having 4 years of Bachelor's degree in any discipline other than Economics have to complete minimum five pre-requisite courses (15 credit hours) to update their background knowledge before joining the mainstream program.

**2 years MSS for 3 years Bachelor's degree:**

Similarly, students having 3 years of bachelor's degree must complete 70 credit hours in 2 years divided into four consecutive semesters to complete the degree. These credits are divided into Pre-requisite Courses; General Education; Core courses; Specialization courses and Elective courses.

## **Master of Social Science in Economics (Mixed mode: Taught course and Thesis)**

### **1.5 years MSS for 4 years Bachelor's degree in Economics:**

This mode comprises 40 credit hours spread over 1.5 years in length. These credits are divided into four categories - General Education; Core courses; Elective courses and Thesis. Students having 4 years of Bachelor's degree in Economics have to complete 40 credit hours in 1.5 years divided into three consecutive semesters. Besides, students having 4 years of Bachelor's degree in any discipline other than Economics have to complete the program in 2 years. In this regard, students have to complete minimum five pre-requisite courses (15 credit hours) to update their background knowledge before joining the mainstream program.

**Thesis:** A student with a minimum GPA 3.25 in the courses prescribed by the department will be allowed to do a thesis, otherwise he/she will have to take taught courses only.

### **3 years MSS for 3 years Bachelor's degree:**

On the contrary, students having 3 years of Bachelor's degree need to complete 70 credit hours in 3 years divided into six consecutive semesters. These credits are divided into Pre-requisite Courses; General Education; Core courses; Elective courses; and Thesis.

**Thesis:** A student with a minimum GPA 3.25 in the courses prescribed by the department will be allowed to do a thesis, otherwise he/she will have to take taught courses only.

## **Master of Social Science in Economics (Research)**

MSS by Research mode is spread over 2 years duration divided into four consecutive semesters. Students having 4 years of Bachelor's degree in Economics with minimum CGPA 3.25 are eligible for admission. A prospective student will apply (in the prescribed form with a proposal) through a potential supervisor. He/she will then have to present his/her thesis proposal before the designated departmental committee. The committee will decide the eligibility of the student's admission to the Master's program by thesis. A thesis student may be instructed by the concerned supervisor to complete a required number of courses as non-credit courses. After completion of the thesis, the evaluation will be recorded as satisfactory or unsatisfactory by the examination committee formed by the department.

## Graduate Attributes:

Following are the generic capabilities that the Department of Economics seeks to foster in all of its post-graduates through teaching and learning:

- **Continuous Learner:** Takes ownership of learning continuously pursuing and demonstrating knowledge and skills throughout life, and exploring areas of interest for academic, career and professional success. Understand how to apply learning to new situations and challenges.
- **Effective Collaborator and Communicator:** Able to work independently with and/or lead a variety of individuals to achieve an objective while displaying flexibility and willingness to understand and articulate alternate points of view. Actively listens, empathizes, and contributes thoughtful, meaningful ideas for a variety of purposes and audiences.
- **Creative and Critical Thinker:** Ability to analyse issues logically, challenge conventional assumptions, consider different options and viewpoints, make informed decisions and act with flexibility, adaptability and creativity to solve problems.
- **Interdisciplinary Perspective:** Commitment to intellectual openness and curiosity, and awareness of the limits of current knowledge and the link amongst disciplines.
- **Researchers:** Ability to conduct research by recognizing when information is needed and locating, retrieving, evaluating and using it effectively.
- **Lifelong Learning:** Commitment to the ongoing acquisition of new knowledge and new skills, and an ability to apply these to an ever-changing environment.
- **Ethics:** Knowledge of ethics and ethical standards and an ability to apply these with a sense of responsibility within the workplace and community.
- **Balanced:** Making healthy choices to achieve well-being and create a well-rounded educational experience.
- **Engaged Citizen:** Demonstrates integrity and leadership through positively influencing outcomes. Acknowledges, understands, interacts with and respects diverse individuals, perspectives and cultures. Applies individual talents to serve others in the local and global community.

### **Program Educational Objectives (PEOs):**

**PEO1:** To continuously enhance academic rigor and research outcomes;

**PEO2:** To understand the importance of inclusion, development and sustainability to resolve related local, national and global issues;

**PEO3:** To inculcate lifelong learning;

**PEO4:** To nurture global human capital, future leaders and problem-solvers to become employable and sensitized world citizens.

### **Program Learning Outcomes (PLOs) of the MSS:**

After completion of the MSS in Economics program, students will be able to:

**PLO1. Knowledge:** Understand the advanced knowledge of macroeconomics, microeconomics and econometrics appropriate for economic research and policy issues. Students will comprehend the knowledge of historical, political, institutional, international and social contexts where specific economic analysis is applied.

**PLO2. Subject-based practical skills:** Develop their knowledge level through specialized courses in Banking and Finance and Development Studies; internalize the knowledge in practical field to contribute the society.

**PLO3. Problem solver:** Consider analysis and resolve a real-life and complex socio-economic problem in a pertinent, critical and innovative manner using an approach based on economic reasoning and in interaction with other social sciences disciplines, displaying intellectual and methodological independence.

**PLO4. Analytical skills:** Identify the relevant issues; grasp the essential elements that are necessary to a proper understanding; select the appropriate economic model; conduct rigorous analytical reasoning through statistical software. They will also interpret the result of statistical or econometric analysis and explain the problems and limitations underlying these tools.

**PLO5. Conduct Investigation of Complex Problem:** Conduct independent research on a topic in economics or related field, identify data sources, describe appropriate empirical tools, conduct a survey for data and perform research on data on complex issues.



**PLO6. Transferrable skills:** able to engage in meetings by presenting, discussing, and constructively critiquing ideas introduced during seminars or meetings. Students will attain the knowledge of how to save, scrutinizes, select, analyses and synthesis information from a variety of sources.

**PLO7. Communication and teamwork:** Capable to communicate to both technical and non-technical audiences about their findings and analyses. They will also work collaboratively and communicate effectively.

**PLO8. Life-long learning:** Recognize the need for and ability to engage in lifelong and self-directed professional development to cope with contemporary and potential challenges.

**PLO9. Ethics and social responsibility:** Respond ethically and socially responsibly and are committed to community service while valuing integrity in their decision-making roles.

**PLO10. Commitment to excellence:** Provide effective resource management, quality service and continuous improvement in all aspects of their professional operations.

**\*\* PLO11. Intellectual (thinking) skills:** attain literary and information processing skills for advanced engagement with a range of contemporary economic theories and interpretations. They will be able to use the application of critical judgment in evaluating economic analysis from pluralistic perspectives and interdisciplinary synthesis. They will be able to formulate research questions and carry out independent research.

**\*\* PLO12. Disciplinary Depth:** Deepen advanced mastery of content and practices of the academic areas that directly inform their scholarly work. Students will acquire research skills that prepare them to attend PhD programs in Economics.

**\*\*\*PLO13. Expertise in a student's field of Research:** Acquire a solid foundation in their chosen field of research. They will familiar with the key findings of past and present contributions in their area.

**\*\*\*PLO14. Research skills:** conduct first-class, transformative research in Economics as independent researchers in both academic and non-academic settings. Students will be able to communicate technical analysis and results with proportionality and awareness of limitations.

[ **N.B:** PLO1 to PLO10 are applicable for the MSS by Taught mode;

\*\* PLO1 to PLO12 are applicable for the MSS by Mix-mode;

\*\*\* PLO1 to PLO14 are applicable for the MSS by Research.]

**Mapping: Mission of the University with PEOs:**

<b>PEOs</b>	<b>Mission 1</b>	<b>Mission 2</b>	<b>Mission3</b>	<b>Mission 4</b>	<b>Mission 5</b>
<b>PEO 1</b>	✓	✓	✓	✓	
<b>PEO 2</b>		✓	✓	✓	✓
<b>PEO 3</b>	✓	✓		✓	✓
<b>PEO 4</b>	✓		✓	✓	✓

**Mapping: PLOs with the PEOs:**

<b>PLOs</b>	<b>PEO 1</b>	<b>PEO 2</b>	<b>PEO 3</b>	<b>PEO 4</b>
<b>PLO 1</b>	✓	✓	✓	✓
<b>PLO 2</b>		✓	✓	
<b>PLO 3</b>	✓	✓	✓	✓
<b>PLO 4</b>	✓	✓	✓	✓
<b>PLO 5</b>	✓	✓	✓	✓
<b>PLO 6</b>	✓	✓	✓	✓
<b>PLO 7</b>	✓	✓	✓	✓
<b>PLO 8</b>		✓	✓	✓
<b>PLO 9</b>		✓	✓	✓
<b>PLO 10</b>		✓	✓	✓
<b>PLO 11</b>	✓	✓	✓	✓
<b>PLO 12</b>	✓		✓	✓
<b>PLO 13</b>	✓		✓	✓
<b>PLO 14</b>	✓	✓	✓	✓

**Mapping courses with the PLOs:**

COURSES	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
<b>MGT 6611</b>	✓		✓	✓	✓	✓	✓	✓	✓	✓		
<b>RSM 6611</b>	✓		✓	✓	✓	✓	✓	✓	✓	✓		
<b>CSE 1203</b>	✓		✓	✓	✓	✓	✓	✓		✓		
<b>ECO 6111</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>ECO 6211</b>	✓	✓	✓	✓	✓			✓	✓			
<b>ECO 6411</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓			
<b>ECO 6511</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>ECO 6911</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>ECO 6512</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>ECO 6513</b>	✓	✓	✓		✓			✓				
<b>ECO 6514</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>ECO 6516</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓			
<b>ECO 6515</b>	✓	✓	✓		✓	✓	✓	✓	✓			
<b>ECO 6517</b>	✓	✓	✓	✓		✓	✓	✓	✓	✓		
<b>ECO 6518</b>	✓	✓	✓		✓	✓	✓	✓	✓	✓		
<b>ECO 6212</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>ECO 6711</b>	✓	✓			✓	✓	✓	✓	✓	✓		
<b>ECO 6712</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>ECO 6713</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>ECO 6715</b>	✓	✓	✓			✓	✓	✓	✓	✓		
<b>ECO 6714</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>ECO 6811</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>ECO 6716</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>ECO 6000</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

## **PART B**

## **Structure of the Curriculum**

### **Duration of the Program:**

Taught mode: 1 / 1.5 / 2 years

Mixed mode (Taught courses and Thesis): 1.5 / 2 / 3 years

Research: 2 years

### **Semesters:**

Taught mode: 2/3/4 semesters

Mixed mode: 4/6 semesters

Research: 4 semesters

### **Admission Requirements:**

Candidates who want to get admission to Master Program should meet the following criteria:

- i) Have at least GPA 2.0 in Bachelor degree examination.
- ii) have at least second division/GPA 2.5 in both SSC and HSC or equivalent examination; or, GPA 6.0 combined but score not less than GPA 2.0 in any individual examination. Or, students who have passed at least 5 papers in GCE 'O' Level and 2 papers in 'A' Level provided that they have at least 'B' grade in four papers and 'C' grade in three papers.
- iii) Students having 4 years of Bachelor's degree in any discipline other than Economics may apply for the admission. Apart from that student having 3 years of Bachelor's degree (Pass) may also apply for the admission.

### **Total minimum credit requirement to complete the program:**

- 1 Year MSS program required total 40 credit hours
- 1.5 Year MSS program required total 40 credit hours
- 2 Year MSS program required total 70 credit hours

### **Total Class Weeks in a Semester:**

- 1 Year MSS program required total 2 semesters
- 1.5 Year MSS program required total 3 semesters
- 2 Year MSS program required total 4 semesters
- 3 Year MSS program required total 6 semesters

**Minimum CGPA requirements for graduation:** 2.00

**Maximum academic years of completion:** 03

**Categories of Courses:**

**Master of Social Science in Economics (Taught Mode)**

**1 year MSS for 4 year Bachelor's degree in Economics:**

The mode consists of 40 credits spread over one year in length divided into two consecutive semesters.

These credits are divided into General Education; Core courses; Specialization courses and Elective courses from specialization areas. The detailed of the 40 credit hours are:

- 5 courses (16 credit hours) as Core courses;
- 2 courses (6 credit hours) as General Education courses;
- 4 courses (12 credit hours) as the core from any one of the Specialization areas;
- 2 courses (6 credit hours) from any one of the specialization areas as Elective courses with the approval of the department.

Apart from that, students having 4 year of Bachelor's degree in any discipline other than Economics have to complete minimum five pre-requisite courses (15 credit hours) to update their background knowledge before joining the mainstream program.

**2 year MSS for 3 year Bachelor's degree:**

Similarly, students having 3 year of Bachelor's degree must complete 70 credit hours in 2 year divided into four consecutive semesters to complete the degree. These credits are divided into Pre-requisite Courses; General Education; Core courses; Specialization courses and Elective courses from specialization areas. The detailed of the 70 credit hours are shown below:

- 9 Courses (27 credit hours) as Pre-requisite courses;
- 3 courses (9 credit hours) as General Education courses;
- 5 courses (16 credit hours) as Core courses;
- 4 courses (12 credit hours) as the core from any one of the Specialization areas;
- 2 courses (6 credit hours) from any one of the specialization areas as Elective courses with the approval of the department.

<b>Pre-Requisite Courses</b>			
	<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
	ECO 5111	Microeconomic Analysis	3
	ECO 5211	Macroeconomic Analysis	3
	ECO 5311	Mathematical Techniques for Economics	3
	STA 5411	Statistical Techniques for Economics	3
	ECO 5711	Economy of Bangladesh	3
	ECO 5411	Econometrics	3
	ECO 5212	Government Finance	3
	ECO 5511	International Trade Theory	3
	ECO 5712	Economics of Development	3
	ECO 5512	Introduction to Banking and Finance	3

<b>General Education Courses</b>				
	<b>Course Code</b>	<b>Title</b>	<b>Credits</b>	<b>Pre-requisite</b>
	MGT 6611	Project Management	3	None
	RSM 6612	Qualitative and Quantitative Analysis	3	None
	CSE 1203	Computer Information System	3	None

<b>CORE COURSES</b>			
	<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
	ECO 6111	Advanced Microeconomic Theory	3
	ECO 6211	Advanced Macroeconomic Theory	3
	ECO 6411	Econometrics: Methods and Applications	4
	ECO 6511	International Economics	3
	ECO 6911	Ethics in Economics	3



<b>Field of Specializations</b>			
<b>1. Banking and Finance</b> <b>2. Development Studies</b>			

<b>Banking and Finance</b>			
	<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
<b>Core Courses</b>			
	ECO 6512	Financial Economics	3
	ECO 6513	Money and International Payments	3
	ECO 6514	Banking Operations and Strategy	3
	ECO 6516	Sustainable Finance and Banking	3
<b>Elective Courses</b>			
	ECO 6515	Insurance and Risk Management	3
	ECO 6517	Corporate Social Responsibility	3
	ECO 6518	Business Economics and Policy	3
	ECO 6212	Public Economics and Policy	3

<b>Development Studies</b>			
	<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
<b>Core Courses</b>			
	ECO 6711	Development Theories	3
	ECO 6712	Rethinking Poverty	3
	ECO 6713	Culture, Gender, Health in Development	3
	ECO 6715	NGO's and Social Entrepreneurship	3
<b>Elective Courses</b>			
	ECO 6714	Development Issues	3
	ECO 6811	Environment and Development	3
	ECO 6716	Development: Education and Communication	3

## **Master of Social Science in Economics (Mixed Mode: Taught Courses and Thesis)**

### **1.5 years MSS for 4 years Bachelor's degree in Economics:**

This mode comprises of 40 credit hours which spread over 1.5 years in length. These credits are divided into four categories - General Education; Core courses; Elective courses and Thesis. The details of the 40 credit hours are given below:

- 16 credit hours as Core courses;
- 6 credit hours as General Education Course;
- 3 credit hours as Elective course with approval of the department; and
- 15 credit hours as Thesis.

Besides, students having 4 years of Bachelor's degree in any discipline other than Economics have to complete minimum five pre-requisite courses (15 credit hours) to update their background knowledge before joining the mainstream program.

### **3 years MSS for 3 years Bachelor's degree:**

This mode comprises of 70 credit hours which spread over 2 years in length. These credits are divided into five categories – Pre-requisites; General Education; Core courses; Elective courses and Thesis. The details of the 70 credit hours are given below:

- 27 credit hours as pre-requisite courses;
- 9 credit hours as General Education Course;
- 16 credit hours as Core courses;
- 3 credit hours as Elective course with approval of the department; and
- 15 credit hours as Thesis

<b>Pre-Requisite Courses</b>			
	<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
	ECO 5111	Microeconomic Analysis	3
	ECO 5211	Macroeconomic Analysis	3
	ECO 5311	Mathematical Techniques for Economics	3
	STA 5411	Statistical Techniques for Economics	3
	ECO 5711	Economy of Bangladesh	3
	ECO 5411	Econometrics	3
	ECO 5212	Government Finance	3
	ECO 5511	International Trade Theory	3
	ECO 5712	Economics of Development	3
	ECO 5512	Introduction to Banking and Finance	3

<b>General Education Courses</b>			
	<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
	MGT 6611	Project Management	3
	RSM 6612	Qualitative and Quantitative Analysis	3
	CSE 1203	Computer Information System	3

<b>CORE COURSES</b>			
	<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
	ECO 6111	Advanced Microeconomic Theory	3
	ECO 6211	Advanced Macroeconomic Theory	3
	ECO 6411	Econometrics: Methods and Applications	4
	ECO 6511	International Economics	3
	ECO 6911	Ethics in Economics	3

<b>Research</b>			
	<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
	ECO 6000	Thesis	15

<b>Elective Courses</b>			
	<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
	ECO 6512	Financial Economics	3
	ECO 6513	Money and International Payments	3
	ECO 6514	Banking Operations and Strategy	3
	ECO 6516	Sustainable Finance and Banking	3
	ECO 6711	Development Theories	3
	ECO 6712	Rethinking Poverty	3
	ECO 6713	Culture, Gender, Health in Development	3
	ECO 6715	NGO's and Social Entrepreneurship	3

### Semester Wise Distribution of Courses:

1 <sup>st</sup> Semester			2 <sup>nd</sup> Semester		
Course Code	Course Title	Credit	Course Code	Course Title	Credit
	Pre-requisite course	3		Pre-requisite course	3
	Pre-requisite course	3		Pre-requisite course	3
	Pre-requisite course	3		Pre-requisite course	3
	Pre-requisite course	3		Pre-requisite course	3
	Pre-requisite course	3		Pre-requisite course	3
<b>Total : 15 Credits</b>			<b>Total : 15 /12* Credits</b>		
3 <sup>rd</sup> Semester			4 <sup>th</sup> Semester		
Course Code	Course Title	Credit	Course Code	Course Title	Credit
	General Education course	3		General Education course	3
	Core Course	3		Core Course	3
	Core Course	3		Core Course	3
	Core Course	4		Core Course (Specialization)	3
	Core Course (Specialization)	3		Core Course (Specialization)	3
	Core Course (Specialization)	3		Elective Course (Specialization)	3
	General Education course	3		Elective Course (Specialization)	3
				Or, Thesis**	15
<b>Total : 19/22 Credits</b>			<b>Total : 21 Credits</b>		
5 <sup>th</sup> Semester			6 <sup>th</sup> Semester		
	<b>Thesis**</b>	<b>15</b>		<b>Thesis**</b>	<b>15</b>
<b>N.B:</b> Taught mode: Students having 4 year Bachelor's degree in economics will start from 3 <sup>rd</sup> semester and complete degree in 1 year (3 <sup>rd</sup> and 4 <sup>th</sup> semesters). **Mix mode (1.5 years): students will start thesis from 4 <sup>th</sup> semester. Thesis** -- Students who will pursue a thesis be continued in two consecutive semesters. * Students having 3 year Bachelor's degree will complete degree in 1 <sup>st</sup> to 6 <sup>th</sup> semesters (3 years), In the 2 <sup>nd</sup> semester he/ she will complete 12 credits as pre-requisite courses. In the case of Mix mode, students will complete 9 credits as general education courses in 3 <sup>rd</sup> and 4 <sup>th</sup> semesters.					

## **PART C**

### **Description of the Courses of the Program**

## **Pre-Requisite Courses**

**Course Title: Microeconomic Analysis**

**Code: ECO 5111**

**Credits: 03**

**Course Type: Pre-requisite**

**Rationale:**

This course is designed to prepare students for studying advanced microeconomics by providing insight of fundamental concepts like consumer choice, production decision, market structure etc.

**Course Objectives:**

The goal of this course is to describe basic microeconomic concepts and demand-supply mechanism of equilibrium for individual as well as market. It also provides a clear idea of theory of production and cost, consumer behavior and different market structure such as monopoly, oligopoly, monopolistic competition etc. to the students.

**Course Learning Outcomes (CLOs):**

After completion of this course learners will be able to:

**CLO1:** Utilize their understanding for advance microeconomic study;

**CLO2:** Apply mathematical and graphical technique to clarify microeconomic theories;

**CLO3:** Execute their knowledge to explain decision making criteria of a firm or industry;

**CLO4:** Achieve clear notion about various kinds of market structure and their actual operation in real word.



## **Course Content:**

**Basic Microeconomic Concepts:** The subject matter of Microeconomics, Scarcity and choice, Scarcity and efficiency, Positive and Normative economics, Competition vs. Welfare, Types of Goods. Basic Problems of an Economy, Production Possibility Frontier: Characteristics, Solution of central economic problems, Economic growth and shift in production possibility curve, Comparative discussion on market, command and mixed economy.

**Demand and Supply Analysis:** The meaning of demand, the law of demand, Market demand curve, Reasons for downward sloped demand curve, Exception to law of demand, Determinants of demand. Definition of Supply, The law of supply, Market supply curve, Exception to law of supply, Determinants of supply, Determination of equilibrium price and quantity in the market.

**Fundamental concept of Consumer Behavior:** Meaning of Utility, Cardinal Approach: Total utility, Average utility and Marginal utility. Relationship between total and marginal utility, Assumptions of Marshallian Marginal Utility Analysis, Law of Equimarginal Principle, Marginal Utility of Money, The Law of Diminishing Marginal Utility, The Diamond-Water Paradox, Income and demand: Inferior Goods, Income and Substitution effects of a Price change. Ordinal Approach: Preference, Choice and Indifference, Indifference Schedule and Indifference Curves, Equilibrium of the consumer with the budget constraint.

**Concepts of Elasticity:** Demand, supply and income elasticity of price with graphical explanation and algebraic techniques

**Theory of Production:** Meaning of Production and Production Function, Production with a single input, Law of Variable Proportions, Iso-quant, Least cost combination of inputs, Expansion Path, Concept of Ridge Lines, Returns to Scale.

**Theory of Costs:** The nature of costs, Fixed versus Variable costs, Short-run Costs and Long-run Costs, Total, Marginal and Average Cost Curves, Envelope Curve.

**Firms and Industry:** Concepts of Plant, Firm and Industry, Total, Marginal and Average Revenue Curves, Concepts of Profit Maximizing and Revenue Maximizing Outputs

**Market Structure:** Perfect Completion: Perfect and Pure Competition, Firm's Equilibrium in the Short-run and Long-run, Short-run Supply Curve of a firm and an industry, Short-run and Long-run Equilibrium of Industry. Imperfect Competition: Monopoly: Definition of Monopoly, Monopoly price in the short and long run, Natural Monopoly, Price Discrimination of different degrees. Monopolistic Competition: Concept of Product Differentiation, Oligopoly: Collusive Models-Cartels and Price Leadership Models.

**Reference:**

Koutsoyiannis, A. (1979). *Modern Microeconomics* (2nd ed.). London : Palgrave.

Mankiw, N. G. (2018). *Principles of Economics* (6th ed.). 632 Vine St Ste 200 Cincinnati OH 45202 USA: South-Western College Pub.

William J. Baumol and Alan S. Blinder. (2015). *Economics: Principles and Policy* (13th ed.). Boston, Massachusetts: Cengage Learning.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcome	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10
CLO1	✓		✓	✓				✓	✓	
CLO2	✓		✓	✓	✓	✓		✓	✓	
CLO3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO4	✓		✓	✓		✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO1	Lecture	Class Test, Quiz, Viva-voce
CLO2	Lecture	Class test, Mid-term examination, Viva-voce
CLO3	Lecture, Group discussion.	Assignment, Final examination, Viva-voce
CLO4	Lecture.	Presentation, Final examination, Viva-voce

**Course Title: Macroeconomic Analysis**

**Course Code: ECO 5211**

**Credits: 03**

**Course Type: Pre-requisite**

**Rationale:**

The outline of the course rotates around the basic concepts of Macroeconomics to impart the preliminary important ideas and to facilitate the understanding of the students for the advanced courses.

**Course objectives:**

The aim of this course is to assist students to conceptualize basic concept of macroeconomics including classical and Keynesian school. It acquaints students with the basic applications of the IS-LM model in policy making situations and enhances their ability to analyze the relationship between the goods and money market equilibrium with aggregate demand. It also focuses on various implications regarding different situations and policy exposures.

**Course Learning Outcomes (CLOs):**

After completion of this course, students will be able to:

**CLO1:** Compute different types of income with different methods and analyze problems of different instruments of national income measurement and their applicability for measuring welfare.

**CLO2:** Apply calculus operation for formulating various types of multiplier as well as explain equilibrium national income with saving investment approach and automatic stabilization.

**CLO3:** Derive IS and LM line graphically and mathematically.

**CLO4:** Recognize effect of demand management policy.

## **Course Content:**

**Introduction:** Nature of macroeconomics, Subject matter of macroeconomics, Interrelationship among macroeconomic variables, the great depression of 1930s from World War II to 1970s.

**National Income Accounting:** GNP, NNP, GDP, NDP, GDP deflator, GNP deflator, Actual GDP, Potential GDP, PI, DI, CPI, PPI, The circular flow of injections and leakages, Methods of national Income Accounting: Product method, Income method and Expenditure method; Value added method, Final product method; Problems of National Income measurement. Multiplier and its measurement

**Demand Side Equilibrium:** Derivation of aggregate demand curve, Shift in aggregate demand curve and multiplier effect with change in price level, Income and the Interest Rate: equilibrium income and the interest rate in the product market, Derivation of the IS curve and LM curve, Equilibrium income and the interest rate in the money market, Demand for money and real balance, Effect of an increase in government expenditure and money supply, Income and the price level on the demand side equilibrium.

**Supply Side Equilibrium:** Determinants of AS, Derivation of AS curve, Shift of AS curve in the equilibrium, Unemployment and Inflation: Definition, Types, causes, measurement and effect of unemployment and inflation; The concept of full employment, Unemployment Insurance: The invaluable cushion, Natural rate of unemployment. Economic costs of high inflation, the social costs of inflation: Inflation as redistributors of income and wealth. Demand-pull and Cost-push inflation theoretically. Real versus nominal interest rates, the illusion of high interest rates. Philips Curve, the Mystery of Stagflation.

**Equilibrium in the commodity and asset market:** Goods and money market interactions, monetary policy, interest rate and output, effectiveness of monetary and fiscal policy, policy and composition of output, targets and policy mix, uncertainty.

## **Reference:**

Baumol, W. J., & Blinder, A. S. (1999). *Macroeconomics: Principles & Policy* (8th Edition). South Western Educational Publishing.

Samuelson, P. A., & Nordhaus, W. D. (1998). *Economics* (16th ed.). McGraw Hill Company, New York.

Dornbusch, Rudiger & Fischer, Stanley & Startz, Richard (1994). *Macroeconomics* (6th ed). McGraw-Hill, New York ; London.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO2	✓	✓	✓	✓	✓	✓	✓	✓		✓
CLO3	✓					✓	✓	✓		✓
CLO4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO1	Lecture, Group discussion, Problem based discussion.	Class Test, Quiz, Mid Term Examination. Viva-voce.
CLO2	Lecture, Group discussion.	Class Test, Quiz, Mid Term Examination. Viva-voce.
CLO3	Lecture, Group discussion.	Assignment, Presentation, Final Term Examination, Viva-voce.
CLO4	Lecture, Group discussion, Students lead class.	Class Test, Assignment, Final Term Examination, Viva-voce.

**Course Title: Mathematical Techniques for Economics**

**Course Code: ECO 5311**

**Credits: 03**

**Course Type: Pre-requisite**

**Rationale:**

This course covers the quantitative tools commonly used in modern economics classes in order to ease the minds of students who are lack of or without solid mathematical training and background.

**Course Objectives:**

The aim of this course is to give emphasis on significance of mathematics in economics and provide students with a review of some mathematical techniques and models. It provides a clear idea of derivatives, linear models and matrix algebra, integration, linear programming and their applications in economics.

**Course Learning Outcomes (CLOs):**

At the end of this course, students will be able to:

**CLO1:** Formulate the derivatives and integral calculus in their economic applications;

**CLO2:** Analysis the optimization problem like profit and utility maximization, cost minimization etc;

**CLO3:** Compare between equality and inequality constraints. Therefore, apply mathematical programming as a modern development of optimization;

**CLO4:** Operate the large simultaneous equation system through matrix algebra and its economic applications;

**CLO5:** Develop skill to apply mathematical tools to analyze economic theories.

**Course Content:**

**Introductory Concepts:** Fundamentals of Relations and Functions, Equation of a straight line, Gradient of Straight Line and intercepts, Solution of an equation in one variable, Simultaneous equation in two variables. Logarithmic functions, Rules of Logarithmic and Exponential functions.

**Derivatives and their applications in Economics:** Meaning of Derivative, Rules of Differentiation with examples and exercises, Meaning of Partial Derivatives and example, Partial Derivatives of Functions of more than two variables, Application in economic Analysis, Total Derivatives

**Linear Models and Matrix Algebra:** Definition, Matrix Operations, Matrix solution--Cramer's Rule, Inversion method, Economic application of matrix.

**Constrained Optimization with Equality Constraints:** Meaning and economic interpretation, Economic application-Utility maximization and cost minimization

**Integrals and Integration:** Meaning of Integration, Techniques of Integration, Definite integration, indefinite integration, Economic application of Integration.

**Linear Programing:** Optimization with inequality constraints.

**Reference:**

Chiang, A., C. (1984). *Fundamental Methods of Mathematical Economics* (International Student Edition). McGraw-Hill Book Company.

Doeling, E., T. (1992). *Introduction to Mathematical Economics*. London: McGraw Hill Book Company

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

<b>Course Learning Outcomes</b>	<b>PLO1</b>	<b>PLO2</b>	<b>PLO3</b>	<b>PLO4</b>	<b>PLO5</b>	<b>PLO6</b>	<b>PLO7</b>	<b>PLO8</b>	<b>PLO 9</b>	<b>PL10</b>
<b>CLO1</b>	✓			✓				✓		✓
<b>CLO2</b>			✓	✓	✓			✓	✓	✓
<b>CLO3</b>	✓	✓	✓		✓			✓	✓	✓
<b>CLO4</b>	✓		✓		✓			✓		✓
<b>CLO5</b>	✓	✓	✓	✓				✓		✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

<b>Course Learning Outcomes</b>	<b>Teaching-Learning Strategy</b>	<b>Assessments Strategy</b>
<b>CLO 1</b>	Lecture, small group discussion, and problem based learning.	Midterm exam, Class test, Quiz, viva-voce.
<b>CLO 2</b>	Lecture, small group discussion, and problem based learning.	Final term examination & viva-voce.
<b>CLO 3</b>	Lecture, small group discussion, and problem based learning.	Final term examination & viva-voce.
<b>CLO 4</b>	Lecture, small group discussion, and problem based learning.	Final term examination & viva-voce.
<b>CLO 5</b>	Lecture, small group discussion, and problem based learning.	Final term examination & viva-voce.



**Course Title: Statistical Techniques for Economics**

**Course Code: STA 5411**

**Credits: 03**

**Course Type: Pre-requisite**

**Rationale:**

This course is designed to provide the students an understanding of descriptive statistics and statistical inference to help them to be a good practitioner in economics field.

**Course Objectives:**

The aim of the course is to teach students with the basic concepts of statistics and demonstrate statistical formula to calculate the measures of location of data, center of location of data, and spread of data. It also provides the ideas of probability, probability distributions, estimation, hypothesis testing and time series analysis with their applications in economics.

**Course Learning Outcomes (CLOs):**

At the end of the course, the students will be able to:

**CLO1:** Understand the basic concepts of statistics and analyze statistical data using measures of central tendency and dispersion;

**CLO2:** Construct confidence interval for test statistics and interpret them properly in practical economic situation;

**CLO3:** Explain and apply the concept of probability & probability distributions;

**CLO4:** Understand and apply the concepts of hypotheses testing in economic decision making;

**CLO5:** Explain the components of time series and calculate the trend lines using different methods.

## **Course Content:**

**Introduction:** Definition of Statistics, Descriptive Statistics and Statistical Inference, Use of Statistics in Economics and other areas. Population and Sample, Variables, Frequency Distribution, Graphical Representation of Frequency Distribution

**Measures of Central Tendency:** Introduction, Arithmetic means, Median, Mode, Geometric mean, quartiles. Relationship between different means.

**Measures of Dispersion:** Introduction, Characteristics of an ideal measure of Dispersion, Measures of Dispersion, Standard Deviation and Mean Deviation, Moments, Skewness and Kurtosis.

**Index Number:** Meaning and Purpose, Problems of Construction of Index number, Calculation and Interpretation of Index Numbers, Fisher's Ideal Index, Some important indexes like Index of Industrial Production, Cost of Living Index.

**Time Series:** Components of Time Series, Measurement of secular trend, Free Hand Method, Moving Average Method, Least Square Method, Methods of Isolating Seasonal Variations, Cyclical variations.

**Probability & Probability Distributions :** Random experiment, Objective and subjective probability, Marginal, Conditional and Joint probability, Mutually exclusive and non-exclusive events, Correctly exhaustive events, Statistically independence test, Bayes' theorem, z-distribution, Chi-square, Student's t and F Distributions, Applications.

**Sampling theory & Estimation:** Census and Survey, Types of sampling, Sampling distribution of the difference between two means, Sampling distribution for variance. Properties of a good estimator, Point estimation, Interval estimation,

**Hypothesis testing:** Hypothesis test, Steps, Level of significance and computing p-value, Critical value, Type-1, Tpe-2 error and applications, Analysis of variance, Test of co-efficient and correlation, Power of the test.

**Reference:**

Mason, R. D., Lind, D. A. & Marchal, W. G. (1999). *Statistical techniques in business and economics*. Boston, Mass: Irwin/McGraw Hill.

Harnett, D. L., & Murphy, J. L. (1980). *Introductory statistical analysis*. Reading, Mass: Addison-Wesley, Pub. Co.

Yamane, T. (1973). *Statistics: an introductory analysis*. New York: Harper & Row.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PL10
CLO1	✓			✓	✓	✓		✓		✓
CLO2				✓	✓			✓		✓
CLO3			✓	✓	✓			✓		✓
CLO4	✓		✓	✓	✓			✓		✓
CLO5	✓		✓	✓	✓			✓		✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO 1	Lecture, small group discussion, and problem based learning, slide presentation.	Midterm exam, Class test, Quiz, viva-voce.
CLO 2	Lecture, small group discussion, and problem based learning, slide presentation.	Final term examination & viva-voce.
CLO 3	Lecture, small group discussion, and problem based learning, slide presentation.	Final term examination & viva-voce.
CLO 4	Lecture, small group discussion, and problem based learning, slide presentation.	Final term examination & viva-voce.
CLO 5	Lecture, small group discussion, and problem based learning, slide presentation.	Final term examination & viva-voce.

**Course Title: Economy of Bangladesh**

**Course Code: ECO 5711**

**Credits: 03**

**Course Type: Pre-requisite**

**Rationale:**

The course focuses on the economic reformation of Bangladesh's economy and emphasizes on the impact of neoliberal structural adjustment policies on the economy.

**Course Objectives:**

This course aims to enable students to build a solid understanding of crucial economic issues of Bangladesh such as agriculture, industry, money and banking, and foreign trade. The course intends to equip learners with the interdisciplinary knowledge of development planning and poverty alleviation policies.

**Course Learning Outcomes (CLOs):**

After the successful completion of this course, students will be able to:

**CLO1:** Understand macroeconomic performance and analyze the sector wise government policies of Bangladesh;

**CLO2:** Analyze socio economic state of Bangladesh under different regime;

**CLO3:** Critically asses the development planning of Bangladesh Economy.

## **Course Content:**

**The socio economic state of Bangladesh under different regime:** Post 1975 period: Mustak-Ziaur Rahman, Ershad, Restoration of Democracy in 1991, post 1991 Period: Rule by BNP, 1995-1996:Rule by Awami League, 1996-2001:Rule by BNP, 2001-2006:Rule by semi military caretaker government, 2007-2008: Establishment of Awami rule in 2009 and the beginning of a new Development era in agriculture, industry and service sector

### **Economy of Bangladesh and Neoliberal structural adjustment policies:**

**Social and Economic Infrastructure:** Education, Health, Transport, Communication, Power and Energy Sectors in Bangladesh.

**Population and Economic Development:** Population-Growth, Composition and Distribution of Population, Density and Trend of Population Growth, Problems of Population in Bangladesh. Population Policy, Population and Economic Development

**Agriculture:** Role of Agriculture; Modernization of Agriculture: Problems and Prospects of Agriculture in Bangladesh. Land Reforms", Agricultural Credit, Agricultural Marketing.

**Industry :** Role of Industry, Strategy for Industrial Development, Large Vs. Small and Cottage Industries, Private Vs Public Sector Privatization Policy, Industrial Development and Industrial Policy in Bangladesh.

**Development Planning:** Concept of Development Planning; Necessity of Planning, Physical- and Financial Planning; Problems of implementing Plan.-, in Bangladesh; Five year Plans.

**Poverty Alleviation Policy:** Concept of Poverty Alteration—Causes of Poverty and Its Remedial Measures, Human Resource Development and Measures taken by the Government for Human Resource v Development, Role of Local Government and NCOs.

## **Reference:**

- Andaleeb, S. S. (2008). *The Bangladesh Economy: Diagnoses and Prescriptions*. Dhaka: The University Press Limited.
- Bayes, A. (2012). *Bangladesh at 40: Changes and Challenges*. Dhaka: A H Development Publishing House.
- Paul, B. P. (2019). *Emporing Economic Growth for Banladesh*. Dhaka: The University Press Limited .

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
<b>CLO1</b>	✓	✓	✓	✓		✓	✓	✓	✓	
<b>CLO2</b>	✓	✓	✓	✓		✓	✓	✓	✓	
<b>CLO3</b>	✓	✓	✓	✓		✓	✓	✓	✓	

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessment Strategy
<b>CLO1</b>	Lectures	Quiz, Class test, Final term examination, Viva -voce
<b>CLO2</b>	Lectures	Class Test, Mid Term, Final term examination, Viva-voce
<b>CLO3</b>	Lectures, Audio Presentation, Group Discussion	Assignment, Group presentation, Final term examination, Viva -Voce

**Course Title: Introduction to Econometrics**

**Course Code: ECO 5411**

**Credits: 03**

**Course Type: Pre-requisite**

**Rationale:**

This course is designed to develop the skill needed for empirical research using basic econometrics techniques. This course also deepens the other transferable skills of the students such as written communication, teamwork, numeracy, computer literacy, problem solving and analytical skills in economic field of research through this course.

**Course Objectives:**

The objective of the course is to orient the students to exercise different tools and techniques of econometrics. This course trains students to interpret the econometric model's estimation results.

**Course Learning Outcomes (CLOs):**

At the end of this course students will be able to:

**CLO1:** Explain how the econometricians proceed in their analysis of economic theories;

**CLO2:** Apply statistical tests to investigate whether the classical assumptions in regression analysis are satisfied;

**CLO3:** Conceptualize the literature concerning empirical analysis.

**Course Content:**

**The nature of regression analysis:** Regression and Correlation, Methodology of Econometrics, Deterministic and Stochastic Models, Regression and Causation, The sources and types of data.

**Two-Variable Regression analysis:** The concept of Population Regression Function (PRF), concept of Sample Regression Function (SRF), Linear regression model, Reasons for including the Disturbance term.

**Two-Variable Regression model: The problem of estimation** Linear Regression Model, Derivation of OLS Estimator in a Linear Regression Model, Precision or Standard errors of least-squares estimates, Properties of OLS Estimator, Measurement of 'Goodness of fit', A numerical example. Classical Normal Linear Regression Model (CNLRM), the normality assumption.

**Classical Normal Linear Regression Model:** Two-variable Regression: Interval estimation and hypothesis testing Interval Estimation: Basic ideas, Confidence intervals for regression coefficients, Hypothesis testing with basic ideas.

**Multiple Regression Analysis:** Estimation; Inference; Consistency; Asymptotic Normality and Large sample Inference; More functional form: Prediction and Residual Analysis

**Reference:**

Gujarati. D. N., Porter. D. C., & Gunasekar, S (2012). *Basic Econometrics*, Tata McGraw Hill education.

Wooldridge, J.M (2020). *Introductory Econometrics*, 7<sup>th</sup> ed.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓	✓	✓	✓			✓	✓	✓	
CLO2	✓	✓	✓	✓			✓	✓	✓	
CLO3	✓	✓	✓	✓			✓	✓	✓	

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO1	Class lecture and other forms	Class test, quiz, midterm examination & Viva-voce.
CLO2	Class lecture & Problem based learning, small group discussion	Class test, quiz, final term examination & Viva-voce.
CLO3	Class lecture & Problem based learning, small group discussion	Assignment, Class test, quiz, Final term examination & Viva-voce.



**Course Title: Government Finance**

**Course Code: ECO 5212**

**Credits: 03**

**Course Type: Pre-requisite**

**Rationale:**

This course focuses on the government revenue, debt management and expenditure and it distinguishes government finance from the private finance.

**Course Objectives:**

The primary course objective is to provide students with the tools, and the skills of public finance. Understand the underlying concepts and practical tradeoffs entailed in public finance policy alternatives. Prepare students to be informed consumers of public finance data, and thus, equip students to engage constructively in the formulation, implementation, and evaluation of public finance policies.

**Course Learning Outcomes (CLOs):**

On successful completion of this course, student will be able to:

**CLO1:** Identify the types of public needs and the mechanisms of their financing;

**CLO2:** Argue the theoretical basis of public expenditures and to analyze their types and economic effects;

**CLO3:** Classify public revenues and integrate them into the fiscal and tax system;

**CLO4:** Explore government option to tackle deficit financing and public debt.

## **Course Content:**

**Introduction:** Definition, importance of and subject matter/scope of public finance; Distinction between public finance and private finance; Concept of principle of exclusion and non-exclusion; Non-rival consumption; Free-rider problem; Hidden-preference problem; Divisibility and indivisibility of goods; Consumption and production externality; Public and private goods; Quasi/impure public and private goods.

**Scope of Government Activity:** Concept of market failure and externality and public sector intervention; Provision for social/public good, merit good; Optimal production and pricing of public good; Private provision for public goods.

**Public Revenue:** Definition and classification of tax and non-tax revenue; Sources of tax and non-tax revenue; Types of tax – direct, indirect, single, multiple, value added tax, ad-valorem tax; Principles of taxation - Benefit approach, Ability-to-pay approach, Equity consideration; Canons of taxation; Base of tax; Elasticity of tax; Concept of a good tax system; Principle of maximum social advantage.

**Public Expenditure:** Meaning, nature and kinds of public expenditure; Concept of govt. expenditure multiplier, transfer payments multiplier; Consequences of multiplier effect; Effect of govt. expenditure on production, employment, inflation, income distribution and economic stabilization; Wagner's law of increasing state activity; Wiseman-Peacock hypothesis.

**Budget:** Concepts and implementations of balanced and unbalanced budget, Budget accounting and its significance. Critical appraisal of a recent budget of Bangladesh, Sources of revenue and heads of expenditure of Bangladesh government.

**Deficit Financing & Public Debt:** Concept of budget deficit; Methods of deficit financing; Impact of budget deficit on economic growth and employment; Place of loan in public finance, System of public debt, Internal and external debts, Burden of debt, Management of debt, Limit of public borrowing.

**Reference:**

Stiglitz, J. E., & Rosengard, J. K. (2015). *Economics of the public sector* (4<sup>th</sup> ed.). WW Norton & Company.

Musgrave, R. A., & Musgrave, P. (1989). *Public Finance: Theory and Practice* (international student ed.). McGraw Hill.

Bhatia, H. L. (2020). *Public finance* (30<sup>th</sup> ed.). Vikash Publishing House.

Harvey, R., & Gayer, T. (2013). *Public finance*. McGraw-Hill Higher Education.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcome	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓			✓				✓	✓	
CLO2	✓	✓					✓	✓	✓	✓
CLO3	✓	✓		✓		✓	✓	✓	✓	
CLO4	✓			✓		✓		✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO1	Interactive Lecture	Class Test, Quiz, Mid-term examination
CLO2	Interactive Lecture, Group discussion.	Class test, Mid-term examination, Viva-voce
CLO3	Interactive Lecture	Assignment, Final examination, Viva-voce
CLO4	Interactive Lecture, Group discussion.	Presentation, Final examination, Viva-voce

**Course Title: International Trade Theory**

**Course Code: ECO 5511**

**Credits: 03**

**Course Type: Pre-requisite**

**Rationale:**

This course is designed to demonstrate the framework for analyzing trade theory, policy, and the role of international trade organizations.

**Course Objectives:**

The purpose of this course is to provide a foundation in international trade theory, terms of trade, balance of payment, foreign exchange market, and commercial policy tools. It also explains the roles of various trade organizations like the WTO, GATT, IMF, and UNCTAD.

**Course Learning Outcomes (CLOs):**

At the end of this course, students will be able to:

**CLO1:** Understand the trade theories and apply them in the real world;

**CLO2:** Analyze the appropriate trade policy and explain how international factor mobility affects an economy;

**CLO3:** Explain the role of key international organizations such as GATT, WTO, and UNCTAD in affecting trade flows across the world.

**Course Content:**

**Introduction:** Subjective matters; The globalization of the world economy; International trade and the nation's standard of living; The international flow of goods, services, labor, and capital; Current international economic problems and challenges.

**International Trade Theory:** Theory of absolute advantage; Theory of comparative advantage; The standard theory of international trade; Demand and supply, Offer curves, and the terms of trade; Factor endowments and the Heckscher-Ohlin Theory.

**International Trade Policy:** Trade restrictions: Tariffs; Nontariff trade barriers and the new protectionism; Economic Integration: Customs unions and free trade areas; International resource movement and multinational corporations.

**The Balance of Payment, Foreign Exchange Market**

**International Finance, Trade and Development:** IMF; World Bank; GATT; UNCTAD; WTO; Globalization and multilateral trading.

**Reference:**

Salvatore, D. (2007). *International economics*. India: Wiley India Pvt, Limited.

Krugman, P. R., & Obstfeld, M. (2009). *International economics: Theory and policy*. Boston: Pearson Addison-Wesley.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓	✓	✓	✓			✓	✓	✓	
CLO2	✓	✓	✓	✓			✓	✓	✓	
CLO3	✓	✓	✓	✓			✓	✓	✓	

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO 1	Lecture, small group discussion.	Midterm examination, Class test, viva-voce.
CLO 2	Lecture, small group discussion.	Midterm examination, Class test, viva-voce.
CLO 3	Lecture, small group discussion.	Final term examination & viva-voce.

**Course Title: Economics of Development**

**Course Code: ECO 5712**

**Credits: 03**

**Course Type: Pre-requisite**

**Rationale:**

This course emphasized on the core philosophy that developing skills in economic analysis is best done through learning-by-doing and practical experience.

**Course Objectives:**

The goal of this course is to better understand the lives of the world's poor, what are their lives like? and why they remain poor. Specifically, the course addresses the main dimensions of poverty: lack of human capital, lack of assets, lack of insurance, lack of voice, etc., and tries to examine why poverty is not just a matter of initial low wellbeing and what price distortions and market failures hinder their quest to improve their wellbeing? Is there scope for policy to help the world's poor? We do not answer these questions with narratives and abstract theory. Rather, we examine detailed survey data of the world's poor, and look at policies that have been attempted and evaluated scientifically. Therefore, this course is considered why extreme poverty and hunger, low-levels of education, gender inequality, and child labor are prevalent in the developing world. Also examine the economic consequences of globalization. For each topic, we seek to understand the factors and constraints influencing decision-making in developing countries.

**Course Learning Outcomes (CLOs):**

At the end of this course students will be able to:

**CLO1:** Assemble and critically evaluate existing knowledge, with an eye to developing new research questions;

**CLO2:** Develop a theoretical framework that concisely captures the existing state of knowledge and generates testable hypotheses;

**CLO3:** Execute and accurately interpret the results of the analysis.

## Course Content:

### Nature of Development and Underdevelopment

#### Income Distribution and Poverty

**Theories of Development:** Linear stages of growth-- Rostow's Stages growth theory, Structural -Changes model: Lewis theory of development, International Dependence Theory-- Dualistic- Development theory; Contemporary growth theory-- Big Push theory, Dualistic Development— Endogenous growth theory;

#### Agricultural Development and the Private Sector

#### FDI & Technology Transfer

**Poverty traps from micro to macro scale:** Risks, Shocks, and Poverty Traps, Economics of Social Interactions, Political Economy and Development: Institutions and, Corruption

## Reference:

Banerjee, A. V., Benabou, R., & Mookherjee, D. (Eds.). (2006). *Understanding poverty*. Oxford University Press.. Princeton University Press.

Todaro, M. P., & Smith, S. C. (2020). *Economic development*. Pearson UK.

Meier, G. M., & Rauch, J. E. (1995). *Leading issues in economic development*. New York: Oxford University Press.

Jhingan, M. L. (2011). *The economics of development and planning*. Vrinda Publications.

## Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓	✓	✓	✓		✓	✓	✓	✓	
CLO2	✓	✓	✓	✓		✓	✓	✓	✓	
CLO3	✓	✓	✓	✓		✓	✓	✓	✓	

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

<b>Course Learning Outcomes</b>	<b>Teaching-Learning Strategy</b>	<b>Assessments Strategy</b>
<b>CLO1</b>	Lecture, Group based discussion & PPT	Class test, assignment, Viva-Voce & mid-term examination
<b>CLO2</b>	Lecture	Class test, assignment, Viva-Voce & mid-term examination.
<b>CLO3</b>	Lecture & problem based discussion	Class test, assignment, Viva-Voce & Final term examination



**Course Title: Introduction to Banking and Finance**

**Course code: ECO 5512**

**Credits: 03**

**Course Type: Pre-requisite**

**Rationale:**

The course study revolves around the basic concepts of banking and finance that assists in the analysis of an economy's banking and financial sectors.

**Course objectives:**

The aim of the course is to acquaint students with the introductory concepts of different financial institutions and corporate finance. It also assists the students to study various methods related to everyday financial measurements like present value calculation, future value calculation, compounding etc. Introduce the students with various ideas of banking so that they can explore the banking sector of an economy like bank balance sheet, liquidity crisis etc.

**Course Learning Outcomes (CLOs):**

At the end of this course the students will be able to-

**CLO1:** Analyze different financial statements and assess financial situation of different financial institutions.

**CLO2:** Justify decision-making situations regarding problems like capital budgeting, investment, inflation etc.

**CLO3:** Evaluate some critical situations like liquidity crisis, bank failure and policy recommendations related to them.

**Course Content:**

**Introduction to Banking:** Definition, features, bank balance sheet and its ingredients, Bank's profitability, bank's solvency etc.

**Functions different types of banks:** Central bank, commercial banks, specialized banks etc.

**Liquidity and Investment:** The trade off, liquidity vs. investment, liquidity crisis, types, solutions to liquidity crisis, different management strategies

**E-Banking:** Introduction, Importance from different point of views, Bangladesh perspective

**Ideas of reserves:** Introduction, differences, functions, importance etc.

**Bank failure:** Reasons, case study, remedy, bank regulation and deregulation, case study.

**Introduction to Corporate finance:** Introduction, subject matter of corporate finance, balance sheet model of the firm, flow chart model of the firm, Debt and equity as contingent claim on firms, managerial goals, set of contracts perspective; Shareholders risk aversion strategies, different types of firms etc.

**Time value of money:** The ideas of present value and future value with numerical examples, Compounding with interest rates, Simplification ideas: perpetuity, Derivation of formulas with numerical examples

**Reference:**

Khan, A. R. (2020, Spring). *Bank Management A Fund Emphasis*. Brother's publication.

Rose, P., & Hudgins, S. (2013). *Bank Management & Financial Services* (9th ed.). McGraw-Hill Education.

Ross, S. A., Westerfield, R. W., & Jaffe, J. (2010). *Fundamentals of Corporate Finance* (9th ed.). McGraw Hill.

**Additional readings will be provided by the respective course teacher.**

**Mapping of PLOs with Course Learning Outcome (CLOs):**

<b>Course Learning Outcomes</b>	<b>PLO1</b>	<b>PLO2</b>	<b>PLO3</b>	<b>PLO4</b>	<b>PLO5</b>	<b>PLO6</b>	<b>PLO7</b>	<b>PLO8</b>	<b>PLO9</b>	<b>PLO10</b>
<b>CLO1</b>	✓	✓	✓	✓		✓	✓	✓	✓	✓
<b>CLO2</b>	✓	✓	✓	✓		✓	✓	✓	✓	✓
<b>CLO3</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy**

<b>Course Learning Outcomes</b>	<b>Teaching-Learning Strategy</b>	<b>Assessment Strategy</b>
<b>CLO1</b>	Class lectures, PPT presentation	Class test, Midterm examination, Viva-voce
<b>CLO2</b>	Class lectures, PPT presentation, Just a minute session	Presentation, Midterm examination, Viva-voce
<b>CLO3</b>	Class lectures, PPT presentation.	Class test, Assignment, Final term examination & Viva-voce

## **General Education Courses**

**Course Title: Project Management**

**Course Code: MGT 6611**

**Credits: 03**

**Course Type: General Education**

**Rationale:**

A graduate should understand how theory and practice work together to solve real-world problems. This course includes the project management knowledge areas and develops students' problem-solving skills by critically analyzing the different situations.

**Course Objectives:**

The goal of this course is to edify students' knowledge in project management such as; how to initiate a project, create scope, make a good team to implement, and fulfill the stakeholders' needs etc. It also aims to develop students' skills in project budgeting and implementation the projects in cost effective ways.

**Course Learning Outcomes (CLOs):**

Upon completion of this course, students are expected to be able to do the following:

**COL1:** Apply key project management terms and analyze the environment in which projects operate.

**COL2:** Identify and analyze project integration, scope, schedule, cost, quality, resource, communications, risk, procurement, and stakeholder management process inputs, tools and techniques.

**COL3:** Initiate a project by creating a project charter and analyze stakeholders' needs.

**COL4:** Interpret the role of the project manager and manage documents in proper way.

## **Course Content:**

**Introduction to Project Management:** Defining “project management”; Exploring opportunities in the project management field; Developing project management skills  
Categorizing different types of projects; Understanding the difference between projects and programs

**Planning Your Project:** Planning a project; Identifying and delivering on your client’s priorities; Managing stakeholders; Developing a project management plan; RACI Matrix  
Preventing ‘scope creep’; Assessing the feasibility of a project; Identifying and managing risks  
**Implementing Your Project:** Entering into a contract; Managing a project; Setting up a project database; Creating an effective work schedule; Monitoring a project; Conducting effective meetings; Managing change; Addressing problems

**Project Management Techniques:** Identifying organisational structures; Estimating costs and budgeting; Using critical path project management tools (WBS, Gantt chart, Project Network Diagram); Establishing the critical path; Tracking project milestones; Using the programme; evaluation and review technique (PERT tool); Using process improvement tools (Fishbone, SIPOC); Managing time; Controlling quality.

**Business and Financial Issues:** Understanding the importance of a business case; Developing a business case; Identifying project costs; Calculating return on investment (ROI); Calculating a payback period; Determining net present value (NPV)

The Project from Start to Finish: Identifying the life cycle of a project ; Handing over a project; Closing a project; Reviewing a project

**People in the Project:** Assembling your project team; Planning resources for your project team  
Managing your project team; Managing conflict within your team; Communicating effectively; Providing leadership and fostering teamwork

## **Reference:**

Watts, A. (2014). *Project Management*. Victoria, B.C.: BCcampus. Retrieved from <https://open-textbc.ca/projectmanagement/>.

Horine, G. M. (2017). *Project Management Absolute Beginner's Guide*; 3rd Edition

**Mapping of PLOs with Course Learning Outcome (CLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓		✓			✓	✓	✓		
CLO 2	✓		✓	✓	✓	✓	✓	✓		
CLO 3	✓		✓	✓		✓	✓	✓		✓
CLO 4	✓		✓	✓		✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO1	Lecture, Group based discussion & PPT	Class test, assignment, Viva-Voce & mid-term examination
CLO2	Lecture	Class test, assignment, Viva-Voce & mid-term examination.
CLO3	Lecture & problem based discussion	Class test, assignment, Viva-Voce & Final term examination
CLO4	Lecture & problem based discussion	Class test, assignment, Viva-Voce & Final term examination

**Course Title: Qualitative and Quantitative Analysis**

**Course Code: RSM 6611**

**Credits: 03**

**Course Type: General Education**

**Rationale:**

This course provides the graduates the key skills to conduct research using scientific methods, and to put that knowledge into practice. It focuses on the logic of social sciences and application of quantitative and qualitative methods.

**Course Objectives:**

The aims of this course are to edify students the basic concepts of research method and methodology and create ability among graduates to construct research objective, hypothesis, data collection, different instruments of data analysis and interpretation.

**Course Learning Outcomes (CLOs):**

After completion of this course students will be able to:

**CLO1:** Formulate research proposals and review literature properly, also apply the knowledge to choose method for a research.

**CLO2:** Relate statistical concepts with research of social science and pursue data collection process and identify required techniques to analyze and interpret them.

**CLO3:** Develop skills in qualitative and quantitative data analysis and presentation.

**CLO4:** Write report and organize references for an academic writing according.

**Course Content:**

Writing Proposal

Reviewing Literature

Sample Design

Processing, Presenting and Analyzing Data

Presenting Descriptive Statistics

Interpreting Result

Writing Report

Citing References



**Reference:**

Frankfort-Nachmias, C., & Nachmias, D. (1996). *Research methods in the social sciences*. New York: St. Martin's Press.

Kothari, C.R.. (2004). *Research methodology : Methods and techniques* (2nd revised edition). New Delhi: New Age International (P) Limited, Publishers.

**Course Learning Outcome (CLOs) and Mapping of PLOs:**

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
CLO1	✓					✓	✓	✓	
CLO2	✓		✓	✓	✓	✓	✓	✓	✓
CLO3	✓			✓	✓	✓	✓	✓	✓
CLO4	✓			✓	✓	✓	✓	✓	

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO1	Lecture, Group based discussion & PPT	Class test, assignment, Viva-Voce & mid-term examination
CLO2	Lecture	Class test, assignment, Viva-Voce & mid-term examination.
CLO3	Lecture & problem based discussion	Class test, assignment, Viva-Voce & Final term examination
CLO4	Lecture & problem based discussion	Class test, assignment, Viva-Voce & Final term examination

**Course Title: Computer Information System**

**Couse Code: CSE 1203**

**Credits: 03**

**Course Type: General Education**

**Rationale:**

The student must have good command over computer. They usually have to prepare report, project, thesis etc. by using different computer programs. Therefore, this course is important to serve the very basic knowledge to the beginners about fundamentals of computer application.

**Course Objectives:**

The objective of the course is to make students familiar with the basic principles of a personal computer, including the internal hardware, the operating system, and use the basic vocabulary and terminology related to computer and word processing and develop students' capability of understanding soft copy file management.

**Course Learning Outcomes (CLOs):**

Upon successful completion of this course, students will be able to

**CLO1:** Identify the fundamental elements of a computer system

**CLO2:** Explain the basic use of computing and internet technologies to solve problems.

**CLO3:** Apply word processing, spreadsheet, and presentation application and related software for performing basic tasks.

## **Course Content:**

**Introduction to Personal Computers and Operating Systems:** History of Computer Technology and the PC; Overview of Computing bits and bytes; PC Hardware; Operating Systems: DOS and Windows.

**General Computer Applications: Word Processing:** creation and Manipulation of Documents: word Processor Basics; Editing and Formatting the document; working with equations; **Spreadsheets:** Spreadsheet basics; Excel environment; Entering data; Excel toolbars; creation and manipulation of charts and graphs; Manipulation of data; Mathematical and statistical calculations; Excel Solver and its Applications in economics; **Database Management:** Introduction to database; Meaning and functions of database management system! Creation and manipulation of tables; Generating reports; Applications in economics using simple examples;

**Preparation of Presentations:** Introduction to power point; Working with texts, graphs, pictures, audio and video in slides. Design templates; Adding Transition Effects to Slides; Adding Animation in Slides; Previewing the Contents;

**Web Page Designing:** Introduction, HTML- Introduction, Page Structure, HTML Tags; Manipulating Header, Footer, Colour, Alignment, Paragraph etc.- List, Tables, Image; **The Internet and e-Commerce:** Meaning and Scope of the internet; Online Fraud, Firewall, and Online Security.

## **Reference:**

Norton, P.: *Introduction to computers*

Induction to Personal Computers, Katherine Murray, Que Corporation.

Poatsy, M. A. (2016). *Exploring Microsoft Office*, Volume 1

e-Commerce-Fundamentals and Applications, By Henry Chan.

**Mapping of PLOs with Course Learning Outcome (CLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓			✓		✓				
CLO 2	✓		✓	✓		✓	✓	✓		
CLO 3	✓		✓	✓	✓	✓	✓	✓		✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy**

Course Learning Outcomes (CLOs)	Teaching-Learning Strategy	Assessments Strategy
CLO1	Lecture, PPT presentation; Lab	Class test, Midterm examination & Viva-Voce.
CLO2	Lecture, PPT presentation; Lab	Class test, Midterm examination & Viva-Voce.
CLO3	Lecture; PPT presentation; Lab	Class test, assignment, Final examination & Viva-Voce.

## **CORE COURSES**

**Course Title: Advanced Microeconomic Theory**

**Course Code: ECO 6111**

**Credits: 03**

**Course Type: Core**

**Rationale:**

The course is designed to provide an advanced perspective of microeconomic issues on consumer and producer behavior, market structure. It also focused the strategic behavior of economic agents.

**Course Objectives:**

The course aims to introduce the advance topics of microeconomics and the applicability of various mathematical tools and techniques in utility analysis, behavior under uncertainty, general equilibrium, welfare economics and game theory. It also enrich students with the techniques of linear and non-linear programming in the context of optimization.

**Course Learning Outcomes (CLOs):**

After successful completion of this course, students will be able to:

**CLO1:** Apply mathematical techniques to explain consumer theory, producer theory, general equilibrium and welfare economics.

**CLO2:** Exercise advance level techniques of linear and non-linear programming to solve several economic problems.

**CLO3:** Analyze strategic behavior of economic agents by using the techniques of Game Theory.

**Course Content:**

**Advance Topics in Consumer Theory:** Review of cardinal and ordinal utility analysis, The Revealed preferences Approach, Weak Axiom of Revealed Preference, Strong Axiom of Revealed Preference, Indifference curve and demand curve from Revealed preference, Superiority of Revealed Preference, Duality, Indirect Utility Function and Expenditure Function.

**Consumer behavior under uncertainty:** Von Neumann –Morgenstern Utility, Compensating and equivalent income variation.

**Advance Topics in Theory of Production and Cost:** A Review of the theory of Production, CES Production function, the elasticity of substitution, Duality in production, Return to scale and varying proportions, Profit maximization, cost minimization, Economic region of production and optimal production of two outputs; Input demand function and supply function.

**General Equilibrium: Pure Exchange:** Two-commodity Exchange, **Production and exchange:** Equilibrium of a consumer, a firm and an industry, market equilibrium, Walras' Law, Existence, stability and Uniqueness of multimarket equilibrium (advance mathematical application), general equilibrium under uncertainty

**Welfare Economics:** Pareto optimality, Efficiency of imperfect competition, External efficiency in consumption and production, Social welfare function, Taxes and Subsidies

**Linear Programming:** Optimization: Graphical approach and Simplex method,

**Nonlinear Programming:** Maximization, Minimization, Kuhn-Tucker conditions and Economic Analysis, Application of nonlinear programming in economics and business

**Game Theory:** Dominance, Mixed Strategies, Extensive Games with perfect and imperfect information, Bidding and auction, Application in Duopoly Market model

**Reference:**

- Ehle, G. A. J., & Reny, P. H. J. (2011). *Advanced Microeconomic Theory*. Pearson.
- Henderson, J. M., & Quandt, R. E. (1958). *Microeconomic Theory: A Mathematical Approach*. McGraw-Hill Book Company.
- Mas-Colell, A., Michael D. Whinston, & Green, J. R. (1995). *Microeconomic Theory*. Oxford University Press.
- Varian, H. R. (1992). *Microeconomics Analysis*. W. W. Norton & Company.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

<b>Course Learning Outcomes</b>	<b>PLO1</b>	<b>PLO2</b>	<b>PLO3</b>	<b>PLO4</b>	<b>PLO5</b>	<b>PLO6</b>	<b>PLO7</b>	<b>PLO8</b>	<b>PLO9</b>	<b>PLO10</b>
<b>CLO1</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO2</b>	✓	✓	✓	✓	✓	✓		✓		✓
<b>CLO3</b>	✓	✓	✓	✓	✓	✓		✓		✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

<b>Course Learning Outcomes</b>	<b>Teaching-Learning Strategy</b>	<b>Assessments Strategy</b>
<b>CLO1</b>	Lecture, Group discussion.	Class Test, Quiz, Mid Term Examination. Viva-voce.
<b>CLO2</b>	Lecture, Group discussion.	Class Test, Quiz, Mid Term Examination. Viva-voce.
<b>CLO3</b>	Lecture, Group discussion.	Assignment, Presentation, Final Term Examination, Viva-voce.



**Course Title: Advanced Macroeconomic Theory**

**Code: ECO 6211**

**Credits: 03**

**Course Type: Core**

**Rationale:**

Key focus of this course is on advance level models of demand and supply side macroeconomics. It also emphasizes on government policy and other applications of macroeconomics.

**Course Objectives:**

The aims of the course are to educate the students with advance models of growth and their applications. Government debt, government expenditure, government budget and finance also explain to the students. It also covers the dynamics international adjustment, interdependence and macroeconomic policy debates.

**Course Learning Outcomes (CLOs):**

After completion of the course, students will be able to;

**CLO1:** Analyze dynamics of growth theories and relate them in real world case.

**CLO2:** Justify applicability of government policies relevant with public debt, expenditure, budget and finance.

**CLO3:** Understand the dynamics of advanced topics of macroeconomics and relate them with the real world.

## **Course Content:**

**Growth Theories:** Harrod-Domar Model; Neo-classical Growth Model; The Ramsey-Cass-Koopmans Model; Endogenous Growth Theory; Kaldor savings function; Phelps golden rule of accumulation.

**Government Expenditure and Finance:** Government budget constraint, financing government expenditures; Fiscal theory of price level; Optimizing public finances; Optimal government expenditures and optimal tax rates.

**Government Debt and Budget Deficits:** The size of government debt; Problems in measurement; Taxes and incentives; Ricardian view of government debt; other perspective of government debt; Fiscal Policy and Monetary Policy.

**International Adjustment and Interdependence:** Adjustment under Fixed Exchange Rates; Exchange Rate Changes and Trade Adjustment: Empirical Issues; The Monetary Approach to the Balance of Payments; Flexible Exchange Rates, Money, and Prices; Interest Differentials and Exchange Rate Expectations; Exchange Rate Fluctuations and Interdependence; The Choice of Exchange Rate Regimes.

**Advanced Topics of Macroeconomics:** Rational Expectations model; The Random Walk theory of GDP; Real Business Cycle theory; The New Keynesian models.

## **Reference:**

Romer, D. (2003). *Advanced macroeconomics*. New York, NY: McGraw Hill.

Branson, W. H. (1994): *Macroeconomic theory and policy*. New Delhi, ND: University Book Stall.

Mankiw, N. G. (2003). *Macroeconomics*. 5<sup>th</sup> ed, New York, NY: Worth Publishers.

Dornbusch, R., Fischer, S., & Startz, R. (2011): *Macroeconomic*. 11<sup>th</sup> ed, New York, NY: McGraw Hill.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

<b>Course Learning Outcomes</b>	<b>PLO1</b>	<b>PLO2</b>	<b>PLO3</b>	<b>PLO4</b>	<b>PLO5</b>	<b>PLO6</b>	<b>PLO7</b>	<b>PLO8</b>	<b>PLO9</b>	<b>PLO10</b>
<b>CLO1</b>	✓	✓	✓	✓				✓		
<b>CLO2</b>	✓	✓	✓	✓				✓	✓	
<b>CLO3</b>	✓	✓	✓		✓			✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy**

<b>Course Learning Outcomes</b>	<b>Teaching-Learning Strategy</b>	<b>Assessments Strategy</b>
<b>CLO1</b>	Lecture, Group discussion.	Class Test, Quiz. Mid-Term Examination
<b>CLO2</b>	Lecture, Group discussion.	Class test, Assignment Mid-term Examination
<b>CLO3</b>	Lecture, Group discussion.	Assignment, Final Term Examination

**Course Title: Econometrics: Methods and Application**

**Course Code: ECO 6411**

**Credits: 04**

**Course Type: Core**

**Rationale:**

Further higher studies in economics as well as carrying out empirical research in the field of economics require a great deal of expertise in research methodology and econometric tools.

**Course Objectives:**

The goal of this course is to obtain skills in econometric analysis and linking this to the knowledge on the numerical outputs generated by the standard statistical packages. Therefore, this course focuses to teach students classical linear model to more sophisticated empirical techniques to deal with cross-section, time series and panel data.

**Course Learning Outcomes (CLOs):**

After successful completion of the course, students will be able to;

**CLO1:** Understand the implicit assumptions and methodologies of econometrics.

**CLO2:** Apply suitable and popular cross-sectional and time series data analysis to solve problems.

**CLO3:** Interpret the numerical outputs generated by standards statistical packages.

**Course Content:**

**Nonlinear Regression Models:** Qualitative Response Regression Models-Logit model, Probit model- Estimation.

**Pooling Cross Sections across Time:** Simple Panel Data methods; Advanced Panel Data Methods- Fixed Effect Models; Random Effect Models.

**Simultaneous Equation Methods:** Approaches to Estimation; Recursive Models and Ordinary Least squares; Estimation of a Just Identified equation: ILS; Estimation of an Overidentified Equation: 2SLS. Instrumental Variable (IV) Method; Recursive Models.

**Advanced Time Series Topics:** Approaches of Economic Forecasting; Co integration and Error Correction Models; VAR models; AR, MA and ARIMA models.

**The Linear Regression Model in Matrix Form:** The Model and Ordinary Least Squares Estimation; Finite Sample Properties of OLS; Statistical Inference.

**Selected Topics**

- a. ARCH and GARCH Modeling
- b. Seemingly Unrelated Regression Equations (SURE)
- c. Big Data
- d. Data Envelope Analysis (DEA)
- e. Stochastic Frontier Analysis (SFA)

**Reference:**

Gujarati. D. N, Porter. D. C, Pal. M: **Basic Econometrics**, 2<sup>nd</sup> Edition, McGraw Hill Inc. 1988.  
J. M. Wooldridge: **Introductory Econometrics**, 7<sup>th</sup> Edition, Cengage. 2018

Wooldridge, J. M. (2010). *Econometric Analysis of Cross Section and Panel Data* (2nd ed.). The MIT Press.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓			✓	✓			✓		
CLO2	✓	✓	✓	✓	✓	✓	✓	✓	✓	
CLO3	✓					✓	✓		✓	

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO1	Lecture, Group discussion.	Class Test, Mid-Term examination
CLO2	Lecture, Group discussion.	Class test, Mid-term examination
CLO3	Lecture, Group discussion.	Assignment, Final-Term examination

**Course Title: International Economics**

**Course Code: ECO 6511**

**Credits: 03**

**Course Type: Core**

**Rationale:**

International trade and finance play an important role in the economic growth and development of the participating nations. This course focuses on the conventional theories of international economics and the trade policies aiming at the promotion of trade volumes to the benefit of a country.

**Course Objectives:**

The course aims to help students understand the structural and institutional causal factors responsible for the ever-increasing trend of international economic integration at various levels of trade, finance, technology, consumption patterns, etc. It also aims to identify policy choices for both national and international levels of economic management.

**Course Learning Outcomes (CLOs):**

At the end of this unit of study, students will be able to

**CLO1:** Understand the underlying theories, concepts, assumptions and arguments in trade theories;

**CLO2:** Apply fundamental theories and concepts in diverse and unpredictable economic environments regarding international trade;

**CLO3:** Understand the monetary theory of international trade;

**CLO4:** Analysis of the role of international trade in economic development;

**Course Content:**

**An Overview of Trade and Economic Development;**

**The Theory of International Trade:** World Trade: An Overview; Labor Productivity and Comparative Advantage: A Ricardian Model; Resources and Trade: The Heckscher-Ohlin Model; External Economies of Scale and the International Location of Production; Firms in the Global Economy: Export Decisions, Outsourcing, and Multinational Enterprises

**International Trade Policy:** The Instruments of Trade Policy; The Political Economy of Trade Policy; Trade Policy in Developing Countries; Controversies in Trade Policies;

**Institutional Frameworks of Trade**

**Economic Integration:** The Theory of Custom Union; Multilateral Trade Agreement; Intellectual Property Rights and The World Trade Organization (WTO); Regional and Sub-regional Co-operation, Concepts of SAPTA, SAFTA, BIMSTEC;

**Globalization and Trade**

**Technology and Trade**

**Services and Trade**

**Exchange Rates and Open-economy Macroeconomics:** National Income Accounting and the Balance of Payments; Exchange Rates and the Foreign Exchange Market: An Asset Approach; Money, Interest Rates, and Exchange Rates; Price Levels and the Exchange Rates in the Long run; Output and Exchange Rate in the Short Run; Fixed Exchange Rates and Foreign Exchange Intervention

**International Macroeconomic Policy:** International Monetary Systems: An Historical Overview: Developing Countries: Growth, Crisis, and Reform

**Reference**

Dunn, R. M., & Mutti, J. H. (2004). *International Economics* (6th ed.). Routledge.

Krugman, P. R., Obstfeld, M., & Melitz, M. J. (2011). *International Economics: Theory and Policy* (9th ed.). Addison-Wesley.

Salvatore, D. (2013). *International Economics* (11th ed.). Wiley.

Contemporary journal articles on trade and development will be selected by the course teacher.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs)**

<b>Course Learning Outcomes</b>	<b>PLO1</b>	<b>PLO2</b>	<b>PLO3</b>	<b>PLO4</b>	<b>PLO5</b>	<b>PLO6</b>	<b>PLO7</b>	<b>PLO8</b>	<b>PLO9</b>	<b>PLO10</b>
<b>CLO1</b>	✓	✓	✓			✓	✓	✓	✓	✓
<b>CLO2</b>	✓	✓	✓			✓	✓	✓	✓	✓
<b>CLO3</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO4</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy**

<b>Course Learning Outcomes</b>	<b>Teaching-Learning Strategy</b>	<b>Assessments Strategy</b>
<b>CLO1</b>	Lecture, Group discussion	Assignment, Class test, Midterm & Viva-voce.
<b>CLO2</b>	Lecture, Group discussion	Assignment, Class test, Midterm & Viva-voce.
<b>CLO3</b>	Lecture, Group discussion	Assignment, Class test, Final term exam & Viva-voce.
<b>CLO4</b>	Lecture, Group discussion	Assignment, Class test, Final term exam & Viva-voce.



**Course Title: Ethics in Economics**

**Course Code: ECO 6911**

**Credits: 03**

**Course Type: Core**

**Rationale:**

This course deals with the relationship between economics and ethics. It is concerned about both the theoretical ground of economics and the real world market economy which depict that an economy can be more productive by paying greater attention to ethics.

**Course Objectives:**

The goal of this course is to introduce to the students the role of ethical reasoning in economics. The topic covers a wide range of issues relating to fundamental ethical axioms, religion, and state, ethics in consumption, production, distribution, trade, and policies that shape the contemporary world. The main focus of this course is to examine how major economic principles can be analyzed from an ethical viewpoint and how moral concerns lead to more fruitful economic analysis.

**Course Learning Outcomes (CLOs):**

At the end of the course, students will be able to:

**COL1:** Understand how economics is linked with ethics and moral values, and explain positive and normative analysis.

**COL2:** Justify the ethical principles of market economy and describe how various approaches to economics incorporate ethics into their works.

**COL3:** Identify the absence of ethical rules in the utilization of natural resources in consumption, production, and business system.

**COL4:** Explore the importance of ethics in the conventional income distribution of society.

**COL5:** Develop critical thinking and argumentative skills to analyze the further conceptual and applied questions of economic ethics and moral philosophy.

## **Course Content:**

**Introduction:** Ethics - meaning, basic rules; Source of guidance - revelations of different religions, Judaism, Christianity, Islam, Hinduism and other major religions; Ethical rules depicted by above religions.

**Fundamental Ethical Axioms:** Unity; Equilibrium; Free will; Responsibility; Human relationship; Perception; Motivation; Safety and security; Discipline; Success and failure; Need for integrated and holistic knowledge.

**Ethics in Economics:** Positive and normative economics; Ethical principles of a market economy; Speculation; Truthfulness; Trust; Sincerity; Brotherhood; Science and knowledge; Justice; Adherence to contracts; Refraining from false advertisement and misrepresentation; Accurate measurement and weight; Abstaining from hoarding and profiteering; Disposition of surplus produce; Food adulteration; Prohibition of interest and unlawful trade; Fair recruitment practices; Fair treatment of workers; Reduction of wastage; Protection of environment.

**Production Ethics:** Meaning, nature and types of production; Conventional rules underlying production decision; Concept of absence of ethical rules in conventional production system; Ethical rules for production and their introduction; Conservation and ethical use of natural resource; Economics of wastage / mis-utilization and over utilization of natural resource.

**Consumption Ethics:** Meaning, nature and types of consumption; Conventional rules underlying consumption decision; Concept of absence of ethical rules in conventional consumption system; Concept of frugality in consumption; Ethical rules for consumption and their introduction; Concept of high-mass consumption; Wastage of food; Unequal distribution of food.

**Ethics in Income Distribution:** Meaning, nature and determinants of income distribution; Conventional rules of income distribution; Theories on income distribution and their basic flaws; Absence of ethical rules in conventional income distribution system; Introduction of ethical rules; Concept of equal and equitable income distribution.

**Ethics in Exchange / Trade and Business:** Meaning, nature and types of exchange / trade and business; Conventional rules of exchange / trade and business; Absence of ethical rules in conventional exchange / trade and business system; Introduction of ethical rules; Hoarding; Unlimited profiteering; False advertisement; Food adulteration; Eulogy.

**Reference:**

Ahmed, S.W.H. (1980). Islamic Sciences: An Introduction to Islamic Ethics, Law, Education, Economics, Politics, Sociology and Systems Planning, Goodword Books.

Hasan, M.S. and Ahmad, K. (2004). Ethics in Business and Management, (ed.), Islamic Foundation.

Sen, A. K. (2001). Ethics and Economics. Oxford University Press.

Hausman, D., McPherson, M., & Satz, D. (2016). Economic Analysis, Moral Philosophy, and Public Policy. Cambridge University Press.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes**

Course Learning Outcome	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓	✓			✓	✓	✓	✓	✓	✓
CLO2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO1	Lecture	Class Test, Quiz, Mid Term Examination, viva-voce.
CLO2	Lecture, Group Discussion	Class test, Quiz, Mid Term Examination, viva-voce.
CLO3	Lecture, Group Discussion.	Class Test, Assignment, Final Term Examination, Viva-voce.
CLO4	Lecture, Student-led classroom	Assignment/Presentation, Final Term Examination, viva-voce.
CLO5	Lecture, Group Discussion, Student-led classroom	Presentation, Final Term Examination, Viva-voce.

**Field of Specialization**

**Banking and Finance**

**Course Title: Financial Economics**

**Course Code: ECO 6512**

**Credits: 03**

**Course Type: Core**

**Rationale:**

The course is designed to provide a rigorous introduction to the fundamentals of modern financial analysis and their applications to business challenges in capital budgeting, project evaluation, corporate investment and financing decisions, and basic security analysis and investment management.

**Course Objectives:**

The course is designed to assist the students to understand the allocation of scarce resources over time under conditions of uncertainty using optimization over time and risk management strategies. It explains the capital market equilibrium with the modified CAPM and also the pricing of futures, options and other contingent claims. Corresponding to the three conceptual pillars of finance the course emphasizes on the application of finance principles to decision problems (lifecycle financial planning, investment and capital budgeting).

**Course learning Outcomes (CLOs):**

After completion of the course the students will be able to –

**CLO 1:** Explain the concepts of compounding and discounting and their application in making financial decisions.

**CLO 2:** Use accounting information for the process of financial planning.

**CLO 3:** Assess the role of market valuation models of assets and why it is important in financial economics.

**CLO 4:** Examine the conceptual frameworks for the management of risks and how the financial system facilitates the efficient allocation of risk bearing.

**CLO 5:** Apply CAPM for measuring the performance of investment portfolios.

**CLO 6:** Assess pricing relationships among calls, puts, option, stock and bonds (application of model)

## **Course Content:**

**Asset markets and asset prices:** Capital markets -Asset price determination-The role of expectations-Performance risk, margins and short-selling Arbitrage -The role of time Asset market efficiency

**Asset market microstructure:** Financial markets: functions and participants- Trading mechanisms- Industrial organization of financial markets -Trading and asset prices in a call market -Bid-ask spreads models.

**Predictability of prices and market efficiency:** Using the past to predict the future - Informational efficiency-Patterns of information

Asset market anomalies -Event studies

**Interest rates and bond management:** The level of interest rates-the term structure of interest rates-Bond portfolio management

**Decision making under uncertainty:** The state-preference approach -The expected utility hypothesis -Behavioral alternatives to the EUH - The mean-variance model

**Portfolio selection: the mean-variance model:** Mean-variance analysis: concepts and notation - Portfolio frontier: two risky assets -Portfolio frontier: many risky assets and no risk-free asset- Optimal portfolio selection in the mean-variance model

**Factor models and the arbitrage pricing theory:** Factor models -APT -Predictions of the APT- Multiple-factor models and the APT

**Intertemporal choice and the equity premium puzzle:** Consumption and investment in a two-period world with certainty-Uncertainty, multiple assets and longtime horizons- Lifetime portfolio selection -the equity premium puzzle and the risk-free rate puzzle- Intertemporal capital asset pricing models.

**Derivative securities:** a) **European Option pricing:** Pricing-binomial pricing-Black-Scholes framework-Put-Call parity. b) **American Option pricing:** Lower limits to the value-Value of early exercise-Binomial model; c) **Financial Forward and Futures Contracts:** Characteristics-price determination-contract- hedging-uses of stock index futures-full covariance approach to construct a futures.

**Reference:**

- Haugen, R. A. (2013). *Modern Investment theory*. PHI Learning Private Limited.
- Bailey, R. E. (2005). *The economics of financial markets*. Cambridge University Press.
- Jones, C. (2008). *Financial economics*. Routledge.
- Cvitanic, J., & Zapatero, F. (2004). *Introduction to the economics and mathematics of financial markets*. MIT Press.
- LeRoy, S. F., & Werner, J. (2001). *Principles of financial economics*. Cambridge University Press.
- Bodie, Z., Kane, A. and Marcus, A., 2022. *Essentials of investments*. New York: McGraw-Hill LLC.

**Course Learning Outcome (CLOs) and Mapping of PLOs:**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO 4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO 5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
CLO 6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessment Strategy**

Course Learning Outcomes	Teaching-Learning Strategy	Assessment Strategy
CLO1	Class lectures, PPT presentation	Quiz, Class test, midterm examination.
CLO2	Class lectures, PPT presentation,	Presentation, midterm examination.
CLO3	Class lectures, PPT presentation.	Class test, assignment, final term examination & viva-voce
CLO4	Class lectures, PPT presentation.	Class test, presentation, assignment, final term examination & viva-voce
CLO5	Class lectures, PPT presentation	Presentation, assignment, final term examination & viva-voce
CLO6	Class lectures.	Assignment, final term examination & viva-voce

**Course Title: Money and International Payments**

**Course Code: ECO 6513**

**Credits: 03**

**Course Type: Core (Specialization: Banking and Finance)**

**Rationale:**

This course builds necessary skills to understand the international monetary system and analyze the effects of various policy shocks in an open economy.

**Course Objectives:**

The goals of this course are to introduce the students with the concepts of money supply and money demand and help them understand the linkage among money supply, prices, and output. It also comprehends the reasons for holding money and present economics models to support them. Make students aware of the different effects of policy changes on output and prices in open economic environment. Introduce the workings of the foreign exchange market. Learn about the swap contract.

**Course Learning Outcomes (CLOs):**

At the end of this course students will be able to:

**CLO1:** Identify the basic functions of money and explain the relationship between money supply and output.

**CLO2:** Understand how money demand depends on interest and income.

**CLO3:** Explain how balance of payment problems is corrected automatically and through policies.

**CLO4:** Predict exchange rate movement in the foreign currency market.



## **Course Content:**

**Elementary Concepts on Money:** History of the Emergence of money; Monetary Aggregates: Definitions and Functions.

**Money and Aggregate Economic Activity:** Review of the Role of Money in the Classical and the Keynesian Models; Monetary Transmission Mechanism; Causality between Money and Output; Evidence on the Relationship

**Demand for money:** Regressive Expectation Model, Portfolio Balance Approach, Transaction Demand for Money, and Friedman's Money as a Commodity.

**Money and Inflation:** Meaning of Inflation and Views of Inflation, Monetarist and Keynesian Employment Target and Inflation; Causality between Money and Prices, Activist and Non Activist Policy Debate, Evidence on Relationship between Money and Inflation

**Balance of Payments:** The Monetary Approach to Balance of Payments (MABP), How MABP Differs From Elasticity and Absorption Approach- Global Monetarist Model, International Transmission of Inflation; Developing Countries, Balance of Payment Adjustment and International Monetary Fund, Developing Country Exchange Rate Arrangements; The IMF and Its Role. IMF and BP. Arguments against IMF's Adjustment Policies

**Macroeconomics in Open Economy:** Internal and External Balance, Policy Dilemma, The Base Line Mundell-Fleming Model, Imperfect Capital Mobility And Mundell-Fleming Model, Aggregate Supply, The Real Balance Effect And The Exchange Rate In The Mundell- Fleming Model.

**Concepts in International Finance:** The Market for Foreign Exchange- Spot, Forward, Currency Swap, Currency Futures and Options, Nominal and Real Exchange Rates, Foreign Exchange Arbitrage, Interest Rate Arbitrage, Purchasing Power Parity, Covered Interest Rate Parity, Uncovered Interest Rate Parity, Marshall-Lerner Condition, Floating Fixed And Managed Floating And Exchange Control Regimes, Short Run And Long Run Determinants of Exchange Rate, Exchange Rate Overshooting.

## **Reference:**

Salvatore, D. (2001) *International Economics*, 7th Ed. John Wiley and Sons.

Paul R. Krugman., M, Obstfeld,( 2003) *International Economics: Theory and Polic*, Peasson, 6th Ed.

P. Hall wood., R Mac Donald- *International Money and Finance*.

**Mapping of Course Learning Outcome (CLOs) and PLOs:**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
<b>CLO1</b>	✓	✓						✓		
<b>CLO2</b>	✓	✓			✓			✓		
<b>CLO3</b>	✓		✓	✓	✓				✓	
<b>CLO4</b>	✓	✓		✓	✓				✓	

**Mapping of Course Learning Outcome (CLOs) with Assessment Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessment Strategy
<b>CLO1</b>	Lecture, PPT presentation	Class test, Assignment, Mid Term, Viva-voce
<b>CLO2</b>	Lecture, PPT presentation	Class test, Assignment, Mid Term Examination, Viva-voce
<b>CLO3</b>	Lecture and Problem Solution	Class test, Assignment, Final Examination, Viva-voce
<b>CLO4</b>	Lecture and, Problem Solution	Class test, Assignment Final Examination, Viva-voce

**Course Title: Banking Operations and Strategy**

**Code: ECO 6514**

**Credits: 03**

**Course type: Core (Specialization: Banking and Finance)**

**Rationale:**

The course is designed to explain the advanced concepts of bank management and the dynamic financial services industry.

**Course Objectives:**

The aim of this course is to assist the students to explore various methods of bank management. It enhances their ability to analyze different types of deposit pricing methods, highly diversified financial conglomerates and performance indicators. The course also improves the skill of coordinating different policies in various critical economic situations, such as facing different risks.

**Course learning Outcomes (CLOs):**

After completion of this course of the students will be able to-

**CLO1:** Evaluate some bank management challenges like interest rate fixation and policy recommendations (like duration gap management, loan management, risk management etc.) related to these challenges.

**CLO2:** Explain different pricing methods, roles and services offered by bank's prime competitors.

**CLO3:** Assess bank performance and up gradation of banking over the years and around the globe.

## **Course Content:**

**Overview of banks and the financial service sector:** Powerful sources reshaping the industry-Competing financial service institutions-Key trends faced by banks and other financial institutions-Old and new services offered

**Liquidity Management:** Definition and Nature, Types, Traditional Measure of Liquidity, Best Liquidity & Worst Liquidity, Liquidity Sources, Liquidity Management -Theory.

**Loan Management:** Definition of Loan, Loan vs Investment, Characteristics of Bank Loan, Classification and Importance of Bank Loan. Review and Identification of Problem Loans, Considerations for Loans Review, Loan Grading or Classifications Based on Recoverability, Loan Sales, Credit Derivatives, Indicators of Problem Loan, Handling Problem /Distressed Loans, Bankers Liability help Line, Minimizing the Risk if Lawsuits, Reasons for Non-Recovery in the Spite of Supply of Loans Against Securities, Questions When Evaluating Collateral, Guidelines for Handling Problem Loans in Bangladesh.

**Regulatory Arrangement for Bank:** Introduction Relevance of Regulation. Definition , Objectives, Tools and strategies of Bank Regulation , Bank Regulatory Authorities, Bank Regulatory Arrangement in Bangladesh, Establishment of private Banks and Expansion, Organization of Management of Commercial Bank, Hedging, interest sensitive gap management, Duration gap management.

**Bank Risk Management:** Introduction, Definition of Risk & Risk Management, Management Perspectives of Risks, Rationales of Risk Management, Steps to Risk Management, Classification of risk, Bank Risk Management System, Financial Derivatives & Risk Management, Aggregation and the Knowledge of Total Exposure , Guidelines on Managing Core Risks in Banking(Hedging, Duration gap management etc..

**Measuring and evaluating the performance of banks and other principal competitors:** Sources and Uses of Funds, Performance Evaluation and Bank Failure, Indicators of a Successful Bank, Performance Based classification of Bank, Indicators of a Failed Bank, stock values and profitability ratios, measuring operating efficiency, performance indicators (size, location and regulatory bias).

**Shadow banking**

**Reference:**

Chandavarkar, A. (1996). *Central banking in developing countries*. Springer.

Heffernan, S. (2005). *Modern banking*. John Wiley & Sons.

McCarty, M. H. (1988). *Money & banking: Financial institutions and economic policy*. Longman Financial Service.

Mishkin, F. S. (2018). *Economics of money, banking and financial markets*. What's New in Economics?

Rose, P. S., & Hudgins, S. C. (2006). *Bank management & financial services*. Irwin Professional Pub.

Saunders, A., & Cornett, M. (2017). *Financial institutions management: A risk management approach*. McGraw-Hill Education.

**Course Learning Outcome (CLOs) and Mapping of PLOs:**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO 10
<b>CLO 1</b>	✓	✓	✓	✓		✓	✓	✓	✓	✓
<b>CLO 2</b>	✓	✓	✓		✓	✓	✓	✓	✓	✓
<b>CLO 3</b>	✓	✓	✓				✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy**

Course Learning Outcomes	Teaching-Learning Strategy	Assessment Strategy
<b>CLO1</b>	Class lectures, PPT presentation	Class test, midterm examination.
<b>CLO2</b>	Class lectures, PPT presentation	Presentation, Class test, assignment, midterm examination, Final term examination
<b>CLO3</b>	Class lectures, PPT presentation	Class test, assignment, final term examination & viva-voce

**Course: Sustainable Finance and Banking**

**Course code: ECO 6516**

**Credits: 03**

**Course type: Elective (Specialization: Banking and Finance)**

**Rationale:**

The course is designed to impart an overview of the drivers and trends, associated major initiatives, key concepts, methodologies and tools used in decision making in the arena of sustainable finance. It also aims to build a solid understanding of the nexus between sustainable banking and finance as a basis for effectively identifying, assessing and managing sustainability related risks, impacts and opportunities.

**Course Objectives:**

The goals of this course are to orient students an overview of sustainable banking and finance. It also emphasis on key concepts, methodologies and tools to make decision in lending and investment process, organization and communication role about sustainability. Hence this course intends to equip participants with the ample knowledge and academic foundations on long term value creation on equity, bonds, banking and insurance, evolution of social and environmental responsibility.

**Course Learning Outcomes (CLOs):**

After completion of this course, students should be able to

**CLO1:** Apply sustainable decision-making frameworks to investment processes.

**CLO2:** Identify and assess environmental, social, and corporate governance issues and risks in investment decision making.

**CLO3:** Explain the differences between sustainable and regular financial instruments.

**CLO4:** Develop problem-solving skills by being put in the role of the decision-maker and explore how present decisions will influence future financial and non-financial performance metrics.

## **Course Content:**

**Sustainability: A Special Role for Banks:** Banks and their function in an economy, the drive behind sustainability at banks, Intermediation and sustainability, Sustainable banking

**Sustainability, Markets and Banking Products:** Sustainable investment funds, Fiscal green funds, sustainable financial products: Committed resources and Investments, Sustainability and advice from banks, the financial sector and the Kyoto Protocol

**Sustainability and Financing Risks:** Environmental risks for clients, indirect environmental risks for banks, direct environmental risks for banks, Risks to banks' reputations, Instruments for analyzing environmental risk

**Internal Environmental Care :** Energy, Waste, Sustainable building, Supply and distribution chain management

**Organization and Communication about Sustainability:** The organization of sustainability within banks, the role of internal communication, the role of external communication, External accountability and the risks of external communication

## **The Environmental Policies of Banks**

### **Economic Development and Sustainable Financial Investments**

**Financial Sustainability:** Investing for long-term value creation, **Equity:** investing with an ownership stake, **Bonds:** investing without voting power, **Banking:** new forms of lending, **Insurance:** managing long-term risk

**Investment:** Evolution of Screening for Social and Environmental Responsibility, the Relationship between Environmental and Financial Performance, Measures of Environmental Management, Measures of Environmental Expenditures, Performance of Environmentally Screened Funds, Environmental Products in Fund Management

### **Valuation of Sustainable Financial Investments**

**Reference:**

Bolton, B. (2015). Sustainable Financial Investment. Maximizing Corporate Profits and Long-Term Economic Value Creation. In *Palgrave MacMillan*.

Jeucken, M. (2001). *Sustainable Finance & Banking*. Earthscan Publications. <http://dx.doi.org/10.1016/j.gfj.2013.07.006>

Schoenmaker, D., & Schramade, W. (2019). *Principles of Sustainable Finance*. OXFORD UNIVERSITY PRESS.

**Course Learning Outcomes (CLOs) and Mapping of PLOs:**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓	✓	✓	✓	✓		✓	✓	✓	
CLO2	✓	✓	✓	✓	✓	✓	✓	✓	✓	
CLO3	✓	✓	✓	✓	✓	✓	✓		✓	
CLO4	✓	✓	✓	✓	✓		✓	✓	✓	
CLO5	✓	✓	✓	✓	✓	✓	✓	✓	✓	

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessment Strategy
CLO1	Class lectures, PPT presentation	Class test, midterm examination.
CLO2	Class lectures, PPT presentation	Presentation, midterm examination.
CLO3	Class lectures, PPT presentation.	Class test, assignment, final term examination & viva-voce
CLO4	Class lectures, PPT presentation, Workshops	Class test, presentation, assignment, final term examination & viva-voce
CLO5	Class lectures, PPT presentation	Class test, presentation, assignment, final term examination & viva-voce



**Course Title: Insurance and Risk Management**

**Course Code: ECO 6515**

**Credit: 03**

**Course Type: Elective (Specialization: Banking and Finance)**

**Rationale:**

This course emphasized on principles of risk and insurance prevalent in financial decision making. The course is designed to address principles of risk management and major forms of insurance, insurance delivery systems as well as insurance company operations. Attention will also be given to Government regulation of insurance, legal aspects related to insurance and insurance contracts.

**Course Objectives:**

This course aims at giving in-depth knowledge of insurance business in terms of structure, products, pricing and risk management.

**Course Learning Outcomes (CLOs):**

At the end of the course, the students will be able to-

**CLO1:** Comprehend concepts of risk and uncertainty as they relate to insurance

**CLO2:** Identify appropriate insurance coverage for specific personal and business situations.

**CLO3:** Understand the basic operations of an insurance company and the insurance industry and their important in an economy.

**CLO4:** Explain the purpose, structure and functions of insurance regulations

**CLO5:** Analyze the market of insurance in perspective of Bangladesh.

## **Course Content:**

**Insurance and Risk:** The Nature and Functions of Insurance, Risk Sharing and Risk Transfer, Insurance Defined from the Viewpoint of the Individual and society, Risk Reduction Through Pooling, The Economic Contribution of Insurance, Elements of An Insurable Risk, The Fields of Insurance

**Risk Management:** Meaning, objectives and steps of Risk Management, Benefits of Risk Management, and personal and enterprise risk management, Insurance Market Dynamics, Loss Forecasting, and Financial Analysis in Risk Management Decision Making

**The Private Insurance Industry:** Types of Insurers and Marketing Systems, Insurance Company Operations, Financial Operations of Insurers, Government Regulation of Insurance

**Legal Principles in Risk and Insurance:** Fundamental Legal Principles, Analysis of Insurance Contracts

**Life and Health Insurance:** Managing Personal Risks, Social Insurance Programs, **Life Insurance:** The Actuarial Basis of Life Insurance, The Life Insurance Contract, Buying Life Insurance, Annuities and Pension Benefits, Managing the Retirement Risk, **Health Insurance:** Disability Income Insurance, Coverage for Medical Expenses, Health Insurance for the Elderly

**Property and Liability Insurance:** The Liability Risk, Auto Insurance, Homeowners Insurance

**Commercial Property Insurance:** Commercial Liability Insurance, Surety Bonds, Trade Credit, and Financial Guaranty Insurance

**Risk and insurance: Bangladesh perspective**

## **Reference:**

Dionne, G., & Harrington, S. E. (1992). *Foundations of Insurance Economics: Readings in Economics and Finance*. Springer Science+Business Media, LLC.

Rejda, G. E., & McNamara, M. J. (2017). *Principles of Risk Management and Insurance* (13th ed.). Pearson.

Vaughan, E. J., & Vaughan, T. M. (2014). *Fundamentals of Risk and Insurance* (11th ed.). Wiley.

\* Additional readings will be provided by the course teacher.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

<b>Course Learning Outcomes</b>	<b>PLO1</b>	<b>PLO2</b>	<b>PLO3</b>	<b>PLO4</b>	<b>PLO5</b>	<b>PLO6</b>	<b>PLO7</b>	<b>PLO8</b>	<b>PLO9</b>	<b>PLO10</b>
<b>CLO1</b>	✓	✓	✓		✓	✓	✓	✓	✓	✓
<b>CLO2</b>	✓	✓	✓		✓	✓	✓	✓	✓	✓
<b>CLO3</b>	✓	✓	✓		✓	✓	✓	✓	✓	✓
<b>CLO4</b>	✓	✓	✓		✓	✓	✓	✓	✓	✓
<b>CLO5</b>	✓	✓	✓		✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

<b>Course Learning Outcomes</b>	<b>Teaching-Learning Strategy</b>	<b>Assessments Strategy</b>
<b>CLO1</b>	Lecture, problem based learning	Class test, quiz, class participation, presentation, midterm examination & viva-voce
<b>CLO2</b>	Lecture, problem based learning	Class test, quiz, class participation, presentation, midterm exam, & viva-voce
<b>CLO3</b>	Lecture, problem based learning; student-led classroom, small group discussion	Class test, class participation, presentation, assignment, mid-term and final-term examination & viva-voce
<b>CLO4</b>	Lecture, problem based learning, student-led classroom, small group discussion	Class test, class participation, assignment, final term examination & viva-voce
<b>CLO5</b>	Lecture, problem based learning, student-led classroom, small group discussion	Class test, class participation, presentation, assignment, mid-term and final-term examination & viva-voce

**Course Title: Corporate Social Responsibility**

**Course Code: ECO 6517**

**Credit: 03**

**Course type: Elective (Specialization: Banking and Finance)**

**Rationale:**

The course is designed to explain students with organizational environment, economic and social issues regarding corporate social responsibility (CSR), emphasizing on the role of stakeholders in CSR, the strategic CSR model and importance of CSR implementation.

**Course objectives:**

This course is focused towards the examination of the scope, viewpoints and complexity of corporate social responsibility (CSR) and viewing CSR issues from multi-stakeholder perspective. Analyzing the connections between corporate strategy and CSR, the impact on foundational organizational principles is also emphasized. Additionally, the impact of CSR implementation on corporate culture is also discussed.

**Course learning outcomes (CLOs):**

After completion of the course students will be able to-

**CLO 1:** Examine the scope and complexity of corporate social responsibility (CSR) and impact of CSR on social issues.

**CLO 2:** Recognize strategic prospects and articulate the business case for sustainability to achieve corporate social responsibility (CSR) goals.

**CLO 3:** Analyze the association between corporate strategy and CSR and their organizational ideologies.

**CLO 4:** Compare and contrast the multiple viewpoints of CSR.

**CLO 5:** Evaluate the level of commitment to CSR of various organizations and competitive advantage.

## **Course Content:**

**The meaning and importance of Corporate Social Responsibility:** Evolution of CSR; Primaries of CSR; CSR and law of e economics; CSR and social legitimacy; CSR Expectations in rich and poor societies; The evolving role of stakeholders; The iron role of social responsibility; Moral and economic arguments for CSR

**The Role of stakeholders in CSR:** Stakeholders advocacy; The role of business in society; Consumers awareness and willingness to pay for socially responsible corporate behavior; Globalization and CSR; Different stakeholder's different perspective; Success and failure with CSR initiatives; Corporate response to citizen demands via CSR; The five stages of organizational growth with CSR

**The strategic importance of CSR implementation:** CSR a balance between organizational means and end; The strategic lens, vision, mission strategy and tactics; Environmental and other global forces propelling CSR; Impact of globalization and communication technologies; The strategic CSR model; The business level CSR threshold; Implementing CSR; CSR as a competitive advantage

## **Contemporary issues:**

- (1) Case studies in organizational environment, Economic and Social CSR issues, Organizational issues: - action vs. intentions corporate commitment, voluntary vs. mandatory stakeholders activism
- (2) Economic business issues: - Branding diversifying sustainability, Fair trade wages
- (3) Social issues, outsourcing, corruption, human right patents.

## **Reference:**

Beal, B. D. (2013). *Corporate social responsibility: Definition, core issues, and recent developments*. SAGE Publications.

Hopkins, M. (2017). *CSR and sustainability: From the margins to the mainstream: A textbook*. Routledge.

Jonker, J., & Witte, M. D. (2010). *Management models for corporate social responsibility*. Springer.

### Course Learning Outcome (CLOs) and Mapping of PLOs:

Course Learning Outcome	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO 10
CLO1	✓	✓	✓					✓	✓	✓
CLO 2	✓	✓	✓			✓	✓	✓	✓	✓
CLO 3	✓	✓	✓	✓		✓	✓	✓	✓	✓
CLO 4	✓	✓	✓				✓	✓	✓	✓
CLO 5	✓	✓	✓				✓	✓	✓	✓

### Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy

Course Learning Outcomes	Teaching-Learning Strategy	Assessment Strategy
CLO1	Lectures	Quiz, Class test, Final term examination, Viva - voce
CLO2	Lectures	Class Test, Mid Term, Final examination, Viva-voce
CLO3	Lectures, Audio Presentation, Group Discussion	Assignment, Group presentation, Final exam, Viva -Voce
CLO4	Lecture	Quiz, Final term examination, Viva-Voce
CLO5	Lecture, Audio Presentation, Group Discussion	Assignment, Group presentation, Final exam, Viva -Voce

**Course Title: Business Economics and Policy**

**Course Code: ECO 6518**

**Credit: 03**

**Course Type: Elective (Specialization: Banking and Finance)**

**Rationale:**

This course focuses on business enterprises and inquiries into the factors contributing to the diversity of organizational structures and to the relationships of firms with labor, capital, and product markets.

**Course Objectives:**

The goal of this course is to describe the Preparation of a business Project, and different models of project management. The course also highlights the interpretation of pricing policy and investment decision.

**Course Learning Outcomes (CLOs):**

After the successful completion of this course, students will be able to-

**CLO1:** Utilize their knowledge about Preparation of a Project, Understanding Market Mechanism, Cost and break even analysis and Linear Programming Model.

**CLO2:** Apply their understanding to Post Optimality Analysis as well as Inventory Model, Transportation Problem, Network and PERT/ CPM regarding firm and industry.

**CLO3:** Execute their knowledge to explain Queuing Models, Simulation, Decision Theory and Quality Control problem.

**CLO4:** Achieve clear notion about Pricing Policy and Practice and Capital Budgeting and Investment decision

## **Course Content:**

**Preparation of a Project:** Identification and selection of a project: element to be considered. Preparation of a project profile, Implementation of a project, finance, Technical Blueprint, Operation

**Market Analysis:** Analysis of market demand and elasticity, Demand forecasting and its different technique, Forecast error, Summarizing forecast accuracy, monitoring and controlling the forecast, Run tests

**Theory of cost and break even analysis**

**Linear Programming Model**

**Post Optimality Analysis**

**Inventory Model**

**Transportation Problem**

**Network, PERT/ CPM**

**Queuing Models**

**Simulation**

**Decision Theory:** Decision Theory, Reasons for Firms Working Together, Complementary Products and Strategic Partnerships, Entering a New Market, Maintaining Customer Base, Determining Prices, Keeping Business Clean, Increasing Returns

**Quality Control:** Service Operations Management, Quality Management, Digitization and Operations Management, Inventory management, Supply Chain, Continuous improvement, Introduction to Value, Value Creation, and Supply Chain Management

**Pricing Policy and Practice:** Demand Curve and Pricing, Determining Willingness to Pay, Playing the Pricing Piano or Price Discrimination, Pricing Psychology, Digital Tools and Changing Promotion, Digital Tools and Changing Price

**Capital Budgeting and Investment decision:** Financial Ratio Analysis, Long-term Financial Planning, Pro Forma Statements, Capital Budgeting techniques, Project Analysis, Capital Budgeting, Real Options in Business Projects



**Reference:**

Jean, W. H. (1969). Capital Budgeting: The Economic Evaluation of Investment Projects (1st ed.). London: TBS The Book Service Ltd.

Paik, C. M. (1973). Quantitative methods for managerial decisions (1st ed.). 2 Pennsylvania Plaza New York: McGraw-Hill Book Company.

Stevenson, W. J. (1998). Introduction to Management Science (1st ed.). 2 Pennsylvania Plaza New York: McGraw-Hill/Irwin.

\*\* Additional readings will be provided by the course teacher.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓	✓	✓		✓	✓	✓	✓	✓	✓
CLO2	✓	✓	✓		✓	✓	✓	✓	✓	✓
CLO3	✓	✓	✓		✓	✓	✓	✓	✓	✓
CLO4	✓	✓	✓		✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO1	Lecture, problem based learning	Class test, quiz, class participation, presentation, midterm examination & viva-voce
CLO2	Lecture, problem based learning	Class test, quiz, class participation, presentation, midterm exam, & viva-voce
CLO3	Lecture, problem based learning; student-led classroom, small group discussion	Class test, class participation, assignment, final term examination & viva-voce
CLO4	Lecture, problem based learning, student-led classroom, small group discussion	Class test, class participation, assignment, final term examination & viva-voce

**Course Title: Public Economics and Policy**

**Course Code: ECO 6212**

**Credits: 03**

**Course Type: Elective (Specialization: Banking and Finance)**

**Rationale:**

This course is focuses on the aspects of government policies and their economic effects. It continually absorbs new ideas from other fields and use these to improve understanding of the policies. It also enhances students' pragmatic skills which reflects recent developments in the academic literature and in policy debate.

**Course Objectives:**

This course discusses the functioning of public policy through the lens of efficiency and equity. It includes several notable issues in public sector such as normative and positive aspects of public sector, market failure, and public expenditure. It also analyzes the public policies for resource allocation and the importance of policy responsibilities which could involve several layers of government.

**Course Learning Outcomes (CLOs):**

After successful completion of the course, students will be able to

**CLO1:** Understand the positive and normative aspects of public sector economics.

**CLO2:** Orient the legitimacy of public action.

**CLO3:** Analyze the pricing and investment rules for the public sector.

**CLO4:** Equipped with the rationale for public expenditure.

**CLO5:** Identify the resource allocation mechanism for public goods.

**CLO6:** Pursue the theory of fiscal federalism and evaluate accountability of public services.

## **Course Content:**

### **Brief Review of Normative and Positive aspects of the Public Sector Economics.**

**Market Failure and Legitimacy of Public Action:** Efficiency and equity aspects, Review of consumption externalities: Jointly consumed goods; Aggregate externalities arising from some exclusive activity and individualized externality- Club goods of Buchanan, Production externalities-non-convexities-problems of global optimality.

**Public enterprise Pricing and Investment Rules:** The marginal cost pricing problems, The theory of the second best, Capacity constraints and Peak-Load problems.

### **Public expenditure criteria:**

Cost-Benefit analysis: The rationale for Social cost benefit analysis, Cost benefit analysis as applied to welfare economics. An appropriate decision rule; Evaluating inputs and outputs; Shadow prices and market prices; Discount rate; The problem of risk and uncertainty: The Arrow-Lind theorem, Cost-benefit analysis and the distributional of income.

**Resources Allocation Mechanism for Public Goods:** Voting models, Bureaucrats Vs. Voters, Incentive mechanism for preference revelation.

**The theory for Fiscal Federalism:** The Tiebout model, Free mobility among regions and efficiency, Theory of intergovernmental grants.

### **Public Enterprise as an Instrument of Public Policy.**

**Problem with Delivering Public Services:** Factors responsible for failure of public action, Accountability; Evolution in thinking on accountability of public services; Voice, Accountability triangle and related complications.

## **References:**

Hindriks, J., & Myles, G.D. (2013). *Intermediate Public Economics* (2<sup>nd</sup> ed.). The MIT Press.

Bellinger, W. K. (2016). *The Economic Analysis of Public Policy* (2<sup>nd</sup> ed.). Routledge.

Stiglitz, J.E., & Rosengard, J.K. (2015). *Economics of the Public Sector* (4<sup>th</sup> ed.). W.W. Norton & Company Inc.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓	✓						✓	✓	
CLO2	✓	✓			✓	✓		✓	✓	
CLO3	✓	✓	✓		✓	✓	✓	✓	✓	✓
CLO4	✓	✓		✓		✓		✓	✓	✓
CLO5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO6	✓	✓		✓		✓		✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO1	Lecture.	Class Test, Quiz. Mid Term Examination. Viva-voce.
CLO2	Lecture, PPT Presentation.	Class Test, Quiz, Mid Term Examination. Viva-voce.
CLO3	Lecture, PPT Presentation, Group Discussion.	Assignment, Class Test, Mid Term Examination, Viva-voce.
CLO4	Lecture, PPT Presentation, Student-led classroom	Presentation, Final Term Examination, Viva-voce.
CLO5	Lecture, PPT Presentation, Group Discussion.	Class Test, Final Term Examination, and Viva-voce.
CLO6	Lecture, PPT Presentation, Group Discussion.	Class Test, Final Term Examination, and Viva-voce.

**Field of Specialization**

**Development Studies**

**Course Title: Development Theories**

**Course Code: ECO 6711**

**Credits: 03**

**Course Type: Core (Specialization: Development Studies)**

**Rationale:**

This course emphasis on the historical and intellectual evolution of the scholarly thought about how and why development does or does takes place. In this regard, this course is examined the development theories which offer valuable insights and a useful perspective on the nature of the development process.

**Course Objectives:**

The aim of this course is to enable students to develop an understanding of contemporary issues in development; to reflect on how ideas inform practice and vice-versa; to relate theoretical and empirical notions; to have an understanding of key actors and institutions in the fields of activity; to establish differences between challenges faced by humanitarian and classic development actors respectively; to allow students to engage critically in development practice, incorporating theory, practice and self-awareness.

**Course Learning Outcomes (CLOs):**

At the end of this course students will be able to:

**CLO1:** Have a deep understanding of different, often competing, conceptualizations of ‘development’

**CLO2:** Have a sound knowledge of several major theories of international development

**CLO3:** Critically analyze the strengths and shortcomings of major theories

**CLO4:** Have sharpened both your social and individual skills in research, analysis, and the presentation of information.

**Course Content:**

Introduction: Course administration. An overview of development theory

Alternative concepts of development

Modernization theories

Neoliberalism and beyond

Structuralism and neo-structuralism:

Post development 1: Anti-development?

Post development 2: Alternatives to development

Post development 3: Post development in action

**Reference:**

Banerjee, A. V., Benabou, R., & Mookherjee, D. (Eds.). (2006). *Understanding poverty*. Oxford University Press.. Princeton University Press.

Todaro, M. P., & Smith, S. C. (2020). *Economic development*. Pearson UK.

Meier, G. M., & Rauch, J. E. (1995). *Leading issues in economic development*. New York: Oxford University Press.

Jhingan, M. L. (2011). *The economics of development and planning*. Vrinda Publications

**Additional readings will be selected by the course teacher.**

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

<b>Course Learning Outcomes</b>	<b>PLO1</b>	<b>PLO2</b>	<b>PLO3</b>	<b>PLO4</b>	<b>PLO5</b>	<b>PLO 6</b>	<b>PLO7</b>	<b>PLO8</b>	<b>PLO9</b>	<b>PLO10</b>
<b>CLO1</b>	✓	✓			✓	✓	✓	✓	✓	✓
<b>CLO2</b>	✓	✓			✓	✓	✓	✓	✓	✓
<b>CLO3</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO4</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy**

<b>Course Learning Outcomes</b>	<b>Teaching-Learning Strategy</b>	<b>Assessments Strategy</b>
<b>CLO1</b>	Class Lecture, PPT, Group based discussion.	Presentation, Assignment, Midterm examination & Viva-voce.
<b>CLO2</b>	Class lecture, Group based discussion.	Presentation, Assignment, Midterm examination, Viva-voce.
<b>CLO3</b>	Class Lecture, PPT, Group based	Presentation, Assignment, Final term examination, Viva-voce.
<b>CLO4</b>	Class Lecture, PPT, group based	Presentation, Assignment, Final term examination & Viva-voce.



**Course Title: Rethinking Poverty**

**Course Code: ECO 6712**

**Credits: 03**

**Course Type: Core (Specialization: Development Studies)**

**Rationale:**

This course is designed to conceptualize the political and different social science approaches to poverty using ethnographic detail to understand poverty. To deal with these trends through the lens of the civil society to understand the live of the poor people as they struggle to deal with the magnitudes of hasty social and economic transformation.

**Couse objectives:**

The aim of this course is to understand the various institutional approaches to poverty, the flaws of the various institutional approaches where often seeing people in problematic ways and approaching the world's poor. Evaluate the consequences of rapid social and economic changes related the lives of poor people.

**Course Learning Outcomes (CLOs):**

After successful completion of the course, students will be able to:

**CLO1:** Understand the historical background linked with poverty and development and estimate poverty and inequality.

**CLO2:** Identify the ethnographic analysis to illustrate and understand both the structural causes of poverty and the lived experience of poverty.

**CLO3:** Discover the relationship among poverty, inequality and power in the globalized world.

**CLO4:** Develop research writing and presentation skills to explore critical approach to development practices and discourses.

**Course Content:**

**Perspectives on Poverty:** concepts and measurement of Poverty; Monetary measures: Headcount, Foster Greer Thorbecke; Critique of the poverty line approach; Absolute vs. Relative Poverty; Human Development and capability; Social Exclusion; Participation; How does method of measurement matter?

**Concepts:**

(i) Liberalism, Keynesianism, Modernization; Case study.

(ii) Neoliberalism; Case study (iii) Rethinking Poverty and Development.

**Famine:** Spread of poverty, hunger and diseases & Famine; Food insecurity

**Informal Economies:** Informal economics, earning opportunities, employment generation; Case study

**Aid or Trade:** Moral economics of Fair Trade; Case study

**Deindustrialization:** Meaning of Deindustrialization; Case study

**Migration:** Labour movement in Europe, Asia; Case study

**Inequality:** an introduction; Theories and measurements; Growth, Inequality and Poverty

**Inequality and the Reconstruction of capitalism:** Inequality and capitalism in the twenty-first century; Inequality and economic crisis in —advanced capitalist countries

**Rethink about the Poverty, Inequality & Development:** A Relational Approach to Durable Poverty, Inequality and Power; Distributive Justice.

**Reference:**

Sen, A. (1999). *Development as Freedom*. Oxford University Press.

McMichael, P. (2012). *Development and Social Change: A Global Perspective*. (5th ed), Los Angeles: Sage

Ravallion, M. (2016). *The Economics of Poverty: History, Measurement and Policy*. Oxford University Press.

Banerjee, A. V., & Duflo, E. (2011). *Poor economics: A radical rethinking of the way to fight global poverty*. Public Affairs.

**Supplementary readings will be selected by the course teacher.**

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

<b>Course Learning Outcomes</b>	<b>PLO1</b>	<b>PLO2</b>	<b>PLO3</b>	<b>PLO4</b>	<b>PLO5</b>	<b>PLO6</b>	<b>PLO7</b>	<b>PLO8</b>	<b>PLO9</b>	<b>PLO10</b>
<b>CLO1</b>	✓	✓								
<b>CLO2</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO3</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO4</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

<b>Course Learning Outcomes</b>	<b>Teaching-Learning Strategy</b>	<b>Assessments Strategy</b>
<b>CLO1</b>	Lecture, PPT Presentation.	Class Test, Quiz. Mid Term Examination. Viva-voce.
<b>CLO2</b>	Lecture, PPT Presentation, Group discussion.	Class Test, Quiz, Mid Term Examination, Viva-voce.
<b>CLO3</b>	Lecture, PPT Presentation, Group Discussion.	Assignment, Class Test, Mid Term Examination, Viva-voce.
<b>CLO4</b>	Lecture, PPT Presentation, Student-led classroom.	Presentation, Final Term Examination, Viva-voce.

**Course Title: Culture, Gender and Health in Development**

**Course Code: ECO 6713**

**Credits: 03**

**Course Type: Core (Specialization: Development Studies)**

**Rationale:**

In the context of the recent rapidly developing world, gender identities, gender relations and gender health are the critical aspects of culture because they shape the way of human life. In this ground, this course is carrying a significant role to explore the impacts of culture, gender relations on development to promote social and economic change in middle and lower-middle developing countries where they are using different theoretical concepts of culture and cultural practices

**Course Objectives:**

The objective of this course is to understand the theoretical paradigms of social science from the perspectives of culture, gender, health and development. This course is focused to identify gender identities and the importance of gender relations which are the critical aspects of culture in social science. This course focuses on the significance of gender and reproduction rights in development aspects evaluate the international policy in gender development and also develop individual skills of asking new and formulating answers about the dynamic of gender and health in development.

**Course Learning Outcomes (CLOs):**

A Student can expect the following learning outcomes after completing the course:

**CLO1:** Identify the central theoretical paradigms of social science; know the main differences among them and their roots in social theory;

**CLO2:** Evaluate how theoretical frameworks inform the methods of social science and analysis of their observations.

**CLO3:** Understand the gender identities and importance of gender relations in the culture.

**CLO4:** Understand and analyses the international policy on gender, health and development

**CLO5:** Able to develop new questions and formulate answers which can be investigated supported with reasoned argument and illustrated with factual evidence.

**Course Content:**

**Introduction and concepts of Culture:** Gender as a development issue, Ideologies, Discourse: power, knowledge and practice; Gender as a social concept. Discussion on Durkheim's "social facts as things" Marx's "relentless critique of all that exists"; View on calls for a "relentless critique" as a "social fact"; Culture is the contemporary term for what Durkheim, Weber and Marx called society.

**Gender and Culture:** Gender and culture: Basic concepts, Approaches to the study of culture, Studying cultural practices: A gender, caste and class perspective; Myths/Mythology, Religious practices: Gender concerns. The interrelationship between Gender, Class, Cast, Community and Cultural Practices.

**Gender, Culture and Development:** Trends in development theories and cultural turn: conceptual and practical foundations of the role of culture in development; Alternative development, post-development and supply-side approaches; Feminist Development theories.

**Gender and Dalit studies:** The emergence of Dalit studies; Class, cast and community; Cast and Marxism; Caste and Hindutva; Conversion; Caste and women question; Case study: Asia and Africa; Case study of Housemaid, Nannies etc.

**Feminist Thought:** Sex and gender, Rights, violence and sexuality, Feminist debate in Liberalism, Radical and dominant approach, feminist debate in Marxism and materialist Feminism; Feminist debate on race, class and nation. Gendering colonialism and redefining the Third World.

**Gender, Health and Development:** Sexual and Reproduction rights; mental health issues in the context of quality health care; Inequality and health: health as human rights under Neo-liberalization; HIV/AIDS, AIDS discrimination; Gender-Based Violence and Culture; Case study: Nepal.

**Gender and Poverty:** The poor are a good investment - Social programs always involve unintended consequences. Discuss whether the kind of relationships that falls into this category and explain the reasons.

**Globalization, Development, Citizenship and Democracy:** Globalization in gender concern; Women in power; Women in militant, Right-wing Movement; Globalization and its discontents-

Classic accounts of society and culture emphasized shared institutions and meanings. Discuss a global society if it is based on disagreement, inequality and conflict.

**Rethinking Asia from a Gender perspective:** Marriage; Ethnicity; Identity and the state; Contemporary issues: gender perspective sex ratio; Health and Nutrition; Girl child and education, Social movement across the region; Review of key debates on gender in South Asia.

### Reference:

There is no prescribed textbook for this course, reading reference will be selected by the course teacher.

### Some basic references for Culture, Gender and Development

Weber, M. (1946). *From Max Weber: Essays in Sociology*. Edited by C. Wright Mills and H. H. Gerth. New York: Oxford University Press.

Wolf, Eric R.(1982). *Europe and the People Without History*. Berkeley, Calif.: University of California Press.

Durkheim, E. (1964)(1895). *The Rules of the Sociological Method*. Edited by George E. G. Catlin. Translated by Sarah A. Solovay and John H. Mueller. New York: The Free Press.

### Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLO5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

<b>Course Learning Outcomes</b>	<b>Teaching-Learning Strategy</b>	<b>Assessments Strategy</b>
<b>CLO1</b>	Class Lecture, PPT, Group Based Discussion	Presentation, Assignment, Midterm examination & Viva-voce.
<b>CLO2</b>	Class Lecture	Presentation, Assignment, Midterm examination, Viva-voce.
<b>CLO3</b>	Class Lecture, PPT, Group Based Discussion	Presentation, Assignment, Final term examination, Viva-voce.
<b>CLO4</b>	Class Lecture, PPT, Group Based Discussion	Presentation, Assignment, Final term examination & Viva-voce.
<b>CLO5</b>	Class Lecture, PPT, Group Based Discussion	Presentation, Assignment, Final term examination & Viva-voce.

**Course Title: NGO's and Social Entrepreneurship**

**Course Code: ECO 6715**

**Credits: 03**

**Course Type: Core (Specialization: Development Studies)**

**Rationale:**

This course highlights the importance of NGOs in development. It provides a critical introduction to the wide-ranging topic of NGOs and Social Entrepreneurship, which will help students to understand the critical idea of social entrepreneurship to tackle social problems like poverty, disease, pollution, corruption, crime, inequality etc.

**Course Objectives:**

The course aims to explain the social entrepreneurship and its challenges. It clarifies how social entrepreneurship can contribute in promoting social innovation and poverty alleviation. Role of NGO's in contemporary development practice is also being analyzed taking NGO-government relations and NGO governance into consideration.

**Course Learning Outcomes (CLOs):**

After completion of this course students will be able to:

**CLO1:** Comprehend the ideas, establishment and operations of Social Entrepreneurship.

**CLO2:** Realize necessity of Social Entrepreneurship for social innovation and development.

**CLO3:** Explain the roles of NGO's in present-day development practices and apply their knowledge in the field.

**CLO4:** Demonstrate NGO-government relations as well as NGO governance.



## **Course Content:**

**Introduction to social entrepreneurship:** Definition of social entrepreneurship. Social entrepreneurship: emergence as a global movement. The pioneers of social entrepreneurship. Creation of social entrepreneur. Characteristics of social entrepreneurs. Comparison between social and business entrepreneurship. Social entrepreneurship and government investment. Difference between social entrepreneurship and activism. Relationship between social entrepreneurship and democracy. Social entrepreneurship vs. Normal business.

**Challenges of Causing Change:** Main financial constraints of social entrepreneurship. Finance organizations and enterprises with social entrepreneurship. Attract and cultivate talented workers in social entrepreneurship. Evaluation the impact of social entrepreneurship. Difference between scale impacts. Factors that stopping social changes.

**Envisioning an Innovating Society /Social entrepreneurs as global leaders:** Role of social entrepreneurship in changing minds. Nurturing of social innovators in different level of education. Role of governments to engage more successfully with social entrepreneurs. Influence of social entrepreneurship in market. Role of philanthropy in social entrepreneurship. Participation in the field of social entrepreneurship.

**Achieving impact at scale through social entrepreneurship:** Detailed discussion on Narayana model and other case studies related to food security, poverty alleviation etc.

## **Introduction to NGO management.**

### **NGO Relations for Sustainable and People-Centered Development.**

**Emergence of NGO's and development:** The changing fortunes of development NGOs since 1990. Exploring five contrasting basic perspectives on NGOs and development. Reflecting on the record of NGOs in development: positive and negative aspects. Some NGO paradoxes in relation to scale and approach. NGOs and the future: contradictions, choices and horizons. Case Study: Role of NGO's in development of Bangladesh.

### **Government NGO relation in south and south East Asia**

### **Leading NGO's of the world and their contribution in the development field.**

The basic roles of NGOs: implementation, partnership and catalysis. Experiences of NGOs acting as service providers. The work of NGOs undertaking advocacy. The role of innovation in

development NGO activities. NGOs as partners working with government and business. The ways in which NGOs seek to combine these three main roles. Case study.

**Project management and evaluation.**

**Platform Partnership and social entrepreneurship.**

**NGO Governance:** NGO Governance structure, responsibilities of directors, Accountabilities and transparency issues, NGO governance in various country perspective.

**Reference:**

David Bornstein and Susan Davis. (2010). Social Entrepreneurship: What Everyone Needs to Know. New York: Oxford University Press.

David Lewis, Nazneen Kanji. (2009). Non- Governmental Organizations and Development. 2 Park Square, Milton Park, Abingdon, Oxon, OX14 4RN: Routledge.

Muhammad Yunus and Karl Weber. (2007). Creating a World without Poverty: Social Business and the Future of Capitalism. New York: United States by PublicAffairs. Noeleen Heyzer, James V. Riker and Antonio B. Quizon. (1995). Government-NGO Relations in Asia: Prospects and Challenges for People Centred Development. Houndmills, Basingstoke, Hampshire RG21 6XS: Macmillan Press LTD.

**Additional references will be provided by the course teacher.**

**Course Learning Outcomes (CLOs) and Mapping of PLOs:**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO 10
CLO1	✓	✓	✓			✓	✓	✓	✓	✓
CLO 2	✓	✓	✓			✓	✓	✓	✓	✓
CLO 3	✓	✓	✓			✓	✓	✓	✓	✓
CLO 4	✓	✓	✓			✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
CLO1	Class Lecture, PPT, Group Based Discussion	Presentation, Assignment, Midterm examination & Viva-voce.
CLO2	Class Lecture, Group Based Discussion	Presentation, Assignment, Midterm examination, Viva-voce.
CLO3	Class Lecture, PPT, Group Based Discussion	Presentation, Assignment, Final term examination, Viva-voce.
CLO4	Class Lecture, PPT, Group Based Discussion	Presentation, Assignment, Final term examination & Viva-voce.

**Course Title: Development Issues**

**Course Code: ECO 6714**

**Credits: 03**

**Course Type: Elective (Specialization: Development Studies)**

**Rationale:**

This course develops the skills of understanding the approach to poverty and often problematic ways of seeing and approaching the world's poor.

**Course Objectives:**

Since the post-WWII period, development has become an institutional approach to poverty, therefore this course combines political economy and other social science approaches to poverty with ethnographic detail to understand poverty in the context of the lives of poor people as they struggle to deal with the consequences of rapid social and economic change.

**Course Learning Outcomes (CLOs):**

At the end of this course students will be able to:

**CLO1:** Assemble and critically evaluate existing knowledge, to develop new research questions in the social & economics development field;

**CLO2:** Develop a theoretical framework that concisely captures the existing state of knowledge and generates testable hypotheses;

**CLO3:** Evaluate and select feasible empirical strategies to test the hypotheses at the highest level of rigor;

**CLO4:** Execute and accurately interpret the results of the analysis from the social & economic aspect;

**CLO5:** Communicate the results of the analysis both in written and oral form.

## Course Content

Introduction: Perspectives on Poverty

Liberalism, Keynesianism, Modernization

Neoliberalism

Rethinking poverty and development

Aid or Trade

FDI & Technology Transfer

Informal Economics—Microfinance, Gender and development

Structural violence

Gender and development: health and wellbeing

Gender, Identity and Religion: Education as ‘cause, effect, problem and possible solution’

Migration

Sustainable Development

## Reference:

Sawada, Y., Mahmud, M., & Kitano, N. (2018). *Economic and Social Development of Bangladesh*. Springer International Publishing:

Banerjee, A. V., Benabou, R., & Mookherjee, D. (Eds.). (2006). *Understanding poverty*. Oxford University Press.. Princeton University Press.

Todaro, M. P., & Smith, S. C. (2020). *Economic development*. Pearson UK.

Meier, G. M., & Rauch, J. E. (1995). *Leading issues in economic development*. New York: Oxford University Press.

Jhingan, M. L. (2011). *The economics of development and planning*. Vrinda Publications.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
<b>CLO1</b>	✓	✓			✓	✓	✓	✓	✓	✓
<b>CLO2</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO3</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO4</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO5</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
<b>CLO1</b>	Class Lecture, PPT, group based discussion,	Presentation, Assignment, Midterm examination & Viva-voce.
<b>CLO2</b>	Class lecture, discussion,	Presentation, Assignment, Midterm examination, Viva-voce.
<b>CLO3</b>	Class Lecture, PPT, group based discussion,	Presentation, Assignment, Final term examination, Viva-voce.
<b>CLO4</b>	Class Lecture, PPT, group based discussion,	Presentation, Assignment, Final term examination & Viva-voce.
<b>CLO5</b>	Class Lecture, PPT, group based discussion,	Presentation, Assignment, Final term examination & Viva-voce.

**Course Title: Environment and Development**

**Course Code: ECO 6811**

**Credits: 03**

**Course Type: Elective (Specialization: Development Studies)**

**Rationale:**

This course explains how development is connected to environmental problems. So, it introduces the students to the multidimensional features of sustainable development and their link to environmental challenges on local, national and global levels. It also gives a special focus on the sustainable management of common-pool resources through public policies.

**Course Objectives:**

The objective of the course is to understand the interrelationship between environment and development, introduce the students to the multidimensional aspects of sustainable development and provide ideas about environmental challenges on global, national and local levels. This course also explains the sustainable management of common-pool resources.

**Course Learning Outcomes (CLOs):**

After completion of the course, the students will be able to:

**CLO1:** Understand and describe the relevant history and concepts of sustainable development;

**CLO2:** Critically discuss different methods to the management of common-pool resources;

**CLO3:** Link current environmental challenges to important theories, concepts and topics;

**CLO4:** Explain how sustainable development is related to global, national, and local levels.

**Course Content:**

**Introduction:** Ecology, environment and economy; relationship between environment and economy, vision for the future, laws of thermodynamics; environment and development trade-off, magnitude of some major environmental problems confronting the world: population growth, economic growth & environment equality

## **Microeconomics foundation of Environmental Economics**

### **The role of markets and market failure in Environmental Economics**

**Property rights and Market based approaches to environmental problems:** Property rights: concepts, administration of resource by the state, local communities and by co- management, improperly designed property right systems, theories of managing common pool resources, demographic features, urbanization, wastes and environmental problems, utilization of natural resources, protection of biodiversity.

### **Environmental valuation and methods for valuing environmental goods, services and assets**

**Environmental Regulation and Policy:** The economics of international agreements: Bilateral agreements, multilateral agreements: Vienna Convention, Montreal Protocol, Kyoto Protocol, COPs. Environmental cost-benefit analysis (CBA), Pollution control measures: efficiency in pollution control. Overview of environmental regulations in the USA, EU, Russia and South Asia. Economic analysis of environmental policy instruments.

### **Macroeconomic aspects of Environmental Economics**

**Economics of Sustainable Development:** Dynamic efficiency: A two period model, the approaches of sustainable development: Idea, Measurement and Policies, policies for sustainable development (SD) at international and national levels, importance of sustainability in production and consumption, global initiatives for sustainable development.

### **Environmental National Accounting**

### **International and Global environmental problems**

**Development, Poverty, and the Environment:** The Growth Process: the nature of the process, potential sources of reduced growth, the natural resource curse, energy. Growth, poverty and environment: case study.

### **Reference:**

Lewis, L., & Tietenberg, T. H. (2019). *Environmental economics and policy*. Routledge.  
Kolstad, C., D. (2010). *Environmental Economics 2nd edition*, USA: Oxford University Press.  
Perman, R., Ma, Y., McGilvray, J., & Common, M, (2011). The origins of the sustainable problem, *Natural Resource and Environmental Economics*, England: Pearson.



**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

<b>Course Learning Outcomes</b>	<b>PLO1</b>	<b>PLO2</b>	<b>PLO3</b>	<b>PLO4</b>	<b>PLO5</b>	<b>PLO 6</b>	<b>PLO7</b>	<b>PLO8</b>	<b>PLO9</b>	<b>PLO10</b>
<b>CLO1</b>	✓	✓			✓	✓	✓	✓	✓	✓
<b>CLO2</b>	✓	✓			✓	✓	✓	✓	✓	✓
<b>CLO3</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO4</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy:**

<b>Course Learning Outcomes</b>	<b>Teaching-Learning Strategy</b>	<b>Assessments Strategy</b>
<b>CLO1</b>	Class Lecture, PPT, Group based discussion,	Presentation, Assignment, Midterm examination & Viva-voce.
<b>CLO2</b>	Class lecture, Group based discussion	Presentation, Assignment, Midterm examination, Viva-voce.
<b>CLO3</b>	Class Lecture, PPT, Group based discussion	Presentation, Assignment, Final term examination Viva-voce.
<b>CLO4</b>	Class Lecture, PPT, Group based discussion	Presentation, Assignment, Final term examination & Viva-voce.

**Course Title: Development: Education and Communication**

**Course Code: ECO 6716**

**Credit: 3**

**Course Type: Elective (Development Studies)**

**Rationale:**

Development is an international and intercultural process that seeks to both implement projects with specific objectives, and change the way people live and think. Language, as communication, both enables such projects and is a source of incomprehension, misunderstanding and exclusion within them. Education is the long term attempt to change the thinking and values of people and communities. This course examines the nature and politics of language and education and their relationship with development.

**Course Objective:**

This course objective to address the issues which students need to understand, for instance, the nature of language and its variation within these different social contexts; the role and politics of language in the making of the nation-state. This course also appreciates the continuing significance of the nation-state in the delivery and politics of development. With the critical assessment of specific case studies, this course is skill students to analyze the intersection of language, education and development.

**Course Learning Outcomes (CLOs):**

Upon successful completion of this course, students will be able to

**CLO1:** transmit the knowledge and underpins the social capacity through the language.

**CLO2:** Understand the development policy and labour where language is a key development issue. At the same time language is the key to policy delivery.

**CLO3:** Connect the techniques of intercultural communication that underpin the ambitious social scope of contemporary development as Literacy once again is a key issue here.

**CLO4:** As power and equality are always core of the development. So students will maintain the rhythm of the pace of educational development and reform which is linked to the rhetorical project of development.

**CLO5:** Understanding the politics of the development and control of multilingualism, the relationship between languages of education and administration and local vernaculars, the increasing scope of world languages, and also the realize the reality of the differential spread of language competence within communities all come into play in this project.

**Course Content:**

1. Standard languages and state power - Standard languages and linguistic engineering
2. Language and the politics of development projects
3. Language Ideology - Globalizing languages: Ideologies and realities of the contemporary global system.
4. The politics of language translation
5. Language Rights -Linguistic rights and wrong- Endangered Languages
6. English as a Global Language - The Linguistic Imperialism of Neoliberal Empire.
7. Cultural Conventions in Literacy Practices Writing as a problem: economies of literacy and globalization
8. The Rhetoric of Development and the Language Game: Global Educational Development Architecture and Approaches - Education and the new imperialism; Education targets, indicators and a post-2015 development agenda.
9. The Philosophy of Paulo Freire
10. South-South' and 'Triangular' Cooperation - Are we all 'Developing' Countries Now?  
Case study: The Cuban Revolution and Internationalism: Structuring Education and Health;  
How Different Disciplines have approached South-South Cooperation and Transfer
11. The Language and Politics of Public-Private Partnerships (PPPs)-  
Public Private Partnerships in Education: New actors and modes of governance in a globalizing world.
12. Gender, Identity and Religion: Education as 'cause, effect, problem and possible solution'

**Reference**

There is no prescribed textbook for this course, reading reference will be selected by the course teacher.

**Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes (PLOs):**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
<b>CLO1</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO2</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO3</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO4</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO5</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
<b>CLO1</b>	Class Lecture, PPT, Group Based Discussion	Presentation, Assignment, Midterm exam & Viva-voce.
<b>CLO2</b>	Class Lecture	Presentation, Assignment, Midterm exam, Viva-voce.
<b>CLO3</b>	Class Lecture, PPT, Group Based Discussion	Presentation, Assignment, Final term exam, Viva-voce.
<b>CLO4</b>	Class Lecture, PPT, Group Based Discussion	Presentation, Assignment, Final term exam & Viva-voce.
<b>CLO5</b>	Class Lecture, PPT, Group Based Discussion	Presentation, Assignment, Final term exam & Viva-voce.

**Course Title: Thesis**

**Code: ECO 6000**

**Credit: 15**

**Course Type: Research**

**Rationale:**

This course covers the application and synthesis of knowledge, acquired in the undergraduate program, with an emphasis on economic aspects in a broad sense. The student has to accomplish demarcated economic research using literature review and prove to have sufficient knowledge to critically analyze and summarize the chosen thesis topic. This course is designed to facilitate students' independent research, writing and presentation skills and enable them to apply economics and/or statistical and econometric analysis to a selected topic in economics.

**Course Objectives:**

This course aims to demonstrate students' ability to investigate and carry out research in their chosen area of economics. The second goal of the course is to obtain and map economic theory into coherent explanations of real-world problems. On the contrary, explore and learn how to confront economic theory with real-world data.

**Course Learning Outcomes (CLOs):**

At the end of this course, students will be able to:

**CLO1:** Identify relevant economic knowledge, concepts, methodologies and skills, and apply those appropriately to analyze and solve current real-world issues.

**CLO2:** Demonstrate the ability to evaluate and synthesize research-based and scholarly literature.

**CLO3:** Develop an adequate research methodology and can be formulated and test concepts and hypotheses to analyze and interpret data.

**CLO4:** Present research findings in an organized, compelling, concise form and interpret results to give recommendations where it's appropriate.

**CLO5:** Work individually and independently to accomplish research.

**CLO6:** Argue and communicate the significant research outcomes, both in writing and orally, to economists and non-economists.

### **Course Content and Assessment**

A student will carry out an in-depth thesis paper on a selected topic having relevance to economic issues/problems under a supervisor nominated by the department. The thesis must demonstrate an original contribution to the selected field of study. To choose thesis, prospective students should apply through prospective supervisor. Each student will have to find out a research problem and inquiry into the research issues systematically. The research may follow qualitative, or quantitative, or a mixed-method approach. At first, the students will have to present their research proposal in the departmental seminar through a potential supervisor. Upon satisfaction of the department and supervisor, the students can formally carry out the thesis. After completion of the thesis, the students will also have to individually present their findings in the departmental seminar. A thesis evaluation committee nominated by the department, comprising of student's supervisor and two other external members, will conduct the thesis viva-voce examination. After accommodation of suggestions and comments from thesis viva-voce examination committee members (endorsed by supervisor), a student has to submit two copies of revised/final thesis – one for supervisor and another for seminar library reference.

Every seminar should be followed by a question and answer session. Seminar is non-graded but required. Seminar II should follow Thesis Viva-voce Examination.

**Seminar – I:** Proposal Presentation Seminar Presentation on research proposal should mainly include:

1. Thesis title/area of interest
2. Findings of literature review - showing the research gap
3. Research questions/hypotheses
4. Conceptual framework
5. Research plan and methodology
6. Key references

**Seminar – II:** Research Seminar Presentation Seminar Presentation on research findings should mainly include:

1. Showing the study gap (through literature review)
2. The research questions that guided the study
3. Conceptual framework
4. Methodology and Data Analysis Techniques Used in the Study
5. Presentation of Key Findings and their strengths and limitations
6. Conclusion – to what extent research findings answer the research questions

#### **Mapping Course Learning Outcomes (CLOs) with the Program Learning Outcomes:**

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
<b>CLO1</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO2</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO3</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO4</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO5</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>CLO6</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

#### **Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessments Strategy**

Course Learning Outcomes	Teaching-Learning Strategy	Assessments Strategy
<b>CLO1</b>	Discussion with supervisor	Seminars presentation, Viva-voce and a written thesis/ research paper submission.
<b>CLO2</b>		
<b>CLO3</b>		
<b>CLO4</b>		
<b>CLO5</b>		
<b>CLO6</b>		

## **PART D**



## Grading/Evaluation

### Grading Scale: 4.00

#### Grades:

The performance of a student in a given course is made through continuous and summative assessments. That comprises quizzes / in-course, class participation, attendance, homework/assignment, case study, class test, mid-term and semester final examinations. Letter grades and grade points are used to evaluate the performance of a student in a given course. A+, A, A-, B+, B, B-, C+, C, and D are the passing grades while F is the failing grade. Letter grades and corresponding numerical grades used in calculating the GPA/CGPA (Cumulative Grade Point Average) are as follows:

Marks Range	Letter Grade		Grade Point
80% and above	A+	A Plus	4.00
75% to less than 80%	A	A Regular	3.75
70% to less than 75%	A-	A Minus	3.50
65% to less than 70%	B+	B Plus	3.25
60% to less than 65%	B	B Regular	3.00
55% to less than 60%	B-	B Minus	2.75
50% to less than 55%	C+	C Plus	2.50
45% to less than 50%	C	C Regular	2.25
40% to less than 45%	D	D Regular	2.00
Less than 40%	F		0.00
Withdrawn	W		-
Incomplete	I		-
Satisfactory	S		-
Unsatisfactory	U		-

### Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA):

Grade Point Average (GPA) is the weighted average of the grade points obtained in all the courses attempted by a student. The four-step procedure that will be followed to calculate the CGPA (Cumulative Grade Point Average) of a student is given below:

- Grade points earned in each course will be computed by multiplying the credit ( $C_i$ ) and the individual grade point ( $G_i$ ) earned in that course (i.e.,  $C_i * G_i$ ).
- The grade points (determined in step i) of all the attempted courses will be added to determine the total grade point earned (i.e.,  $\sum C_i * G_i$ ).
- Credits of all courses will be added together to determine the total credits ( $\sum C_i$ ).
- CGPA will be determined by dividing the result of step (ii) by the result of step (iii). For example, if a student attempted  $n$  courses in a semester having credits  $C_1, C_2, \dots, C_n$  and his/her grade points in these courses are  $G_1, G_2, \dots, G_n$  respectively, then the CGPA can be calculated as follows:

$$\text{CGPA} = \frac{\sum (\text{Credit of the course attempted} \times \text{Grade point earned})}{\sum (\text{Credit of attempted course})} = \frac{\sum C_i * G_i}{\sum C_i}$$

### A Numerical Example

Suppose a student has completed six courses in a semester and obtained the following grades:

Course	Credit $C_i$	Letter Grade	Grade Point $G_i$	$C_i * G_i$
MAT 111	3.0	A+	4.00	12.00
ECO 101	3.0	A	3.75	11.25
CSE 101	3.0	A+	4.00	12.00
STA 101	3.0	F	0.00	0.00
ENG 101	3.0	A	3.75	11.25
MAT 121	1.5	B	3.00	4.50
<b>Total</b>	$\sum C_i = 16.5$			$\sum C_i * G_i = 51.00$

$$\text{CGPA} = \frac{51.00}{16.5} = 3.09$$

**Note:** If the 3rd digit after decimal points is above '0', grade will be rounded (ceiling) into the second digit after decimal. For example, 2.990 will be counted as 2.99 while 2.991 will be counted as 3.00 in CGPA calculation.

A student may enroll non-credit courses termed audit courses on recommendation of his/her thesis/project supervisor and chairman of the department.

### **Course Withdrawal:**

A student may withdraw from one or more courses with the approval of his/her Academic Advisor within 6 weeks of the commencement of the semester or else his/her grade in that course shall be recorded as **F**

A student should have a convincing reason to add/drop/withdraw a course.

In exceptional cases, (e.g. serious illness of students, death of parents etc.) a student may be allowed to withdraw a course after week 6 on recommendation of his/her advisor. Such request should be supported by proper documents and certificates.

### **Incomplete Courses:**

When a student is unable to sit for the final examination of a course, his/her grade in that course shall be recorded as **I**. In such a case, he/she has to retake/recourse the course.

### **Satisfactory/Unsatisfactory:**

Satisfactory and Unsatisfactory will be used only as final grades for thesis/project and noncredit courses. If, a student discontinues his/her thesis/project, an **I** grade shall be recorded.

**Retake:**

A student getting an **F** or **I** grade in a course may sit only for the final examination in that course, if he/she obtains 40% or above marks excluding the final examination. A course cannot be retaken more than twice.

**Re-course:**

A student getting an **F** or **I** grade in a course will be required to repeat the course if he/she obtains below 40% marks excluding the final examination.

**Grade Improvement:**

A student may re-course one or more courses for improvement of grade and the best of the grades earned in a course on repeating will be counted for CGPA calculation.

A student may retake one or more courses for improvement of grade and the best of the grades earned in a course on retaking will be counted for CGPA calculation. Courses having less than B grade will be allowed to register as 'Improvement'.

**Note:** For any retake, the student have to obtain 40% or above marks excluding the final examination.

**Dropout:**

A student may dropout from the program by applying to the registrar of the university. But he/she must have a convincing reason to do so.