SULTAN QABOOS UNIVERSITY

COURSE OUTLINE

PROGRAM: NRE

1. Course Code	NREC4201	
2. Course Title	Applied Environmental Valuation Methods	
3. Credits	3 CH , 12 CP, 6 ECTS	
4. Pre-requisite Course(s)	NREC3300 & NREC4430	
5. Co-requisite Course(s)		
6. Equivalent Course(s)		
7. Incompatible Course(s)		
8. Course Category	☐ University Requirement	☐ University Elective
	☐ College Requirement	☐ College Elective
	☐ Department Requirement	☐ Department Elective
	☐ Specialization Requirement	☐ Specialization Elective
	☐ Other (specify): CAMS	
9. Course Owner	College:	Department: NRE
10. Course Type	☐ Lecture	☐ Lecture/Lab
	☒ Lecture/Seminar	☐ Lecture/Studio
	☐ Lecture/Tutorial	☐ Lecture/Lab/Tutorial or Seminar
	☐ Tutorial	☐ Laboratory (Practical)
	☐ Field or Work Placement	☐ Studio
	☐ Seminar	☐ Internship
	☐ Workshop	☐ Project
11. Language of Instruction	English	

12. Course Description

This course compliments the course Benefit Cost Analysis by extending it to include the economic evaluation of market and non-market environmental assets. The main objective of this course is to learn methods through which economic values can be placed on the environment, enabling environmental resource use be considered in economic decision-making. The course first introduces the concepts of social surplus and allocative efficiency, the different measures of welfare change (such as consumer surplus), willingness to pay and willingness to accept in order to provide a theoretical basis for environmental valuation. The course then examines the conventional methods of valuing the natural environment either based on revealed or stated preferences. The revealed preferences approaches will include the dose–response and cost-based approaches, travel cost method and hedonic pricing methods. The stated preference approaches will be the contingent valuation method and discrete choice experiments. The emphasis is placed on the practical applications of the non-market valuation methods in the sphere of environmental policy and management. A range of case studies will be reviewed for this purpose. The course also looks into various environmental decision-support systems that integrate non-market environmental values, such as extended cost-benefit analysis and multi-criteria analysis.

13. Teaching/Learning Strategies

2 Lectures (1.5 hrs/week each)

14. Assessment Components and Weight [%]

☒ Quizzes	☐ Practical	☐ Other (specify):
☐ Homework assignments	☐ Project	
☒ In-term examination(s)	☐ Final examination	

15. Grading Method

☒ A-F Scale ☐ Pass/Not passed

16. Textbook(s) and Supplemental Material

Textbook: Boardman, A.E.; Greenberg, D.H.; Vining, A.R.; Weimer, D.L. 2006. Cost-Benefit Analysis: Concepts and Practice. Pearson Education International

17. Matching Course Objectives with Program Outcomes and SQU Graduate Attributes

SQU Graduate Attributes

A. SQU graduates should be able to:	**B. SQU graduates possess**	**C. SQU graduates should**
1. apply the knowledge and skills relevant to the specialization 2. communicate effectively and use information and communication technologies 3. critically analyze complex information and present it in simple clear manner	1. interpersonal communication skills and alignment with culture of international labour market to assist them in practical life and in living successfully 2. skills and motivation for independent learning and engagement in lifelong learning and research 3. work ethics and positive values, and intellectual independence and autonomy 4. teamwork skills and display potential leadership qualities	relish good citizenship qualities, be conscious of their national identity and be socially responsible, engage in community affairs and be mindful of contemporary issues.

#	Intended Student Learning Outcome /Course Learning Objective	Relevant Program Outcome(s)	Applicable Attribute(s)
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16. Student Responsibilities

It is the student's responsibility to know and comply with all University Academic Regulations relevant to participation in this course. These regulations specifically include attendance requirement and students` academic code of conduct.

For attendance, it is the student's responsibility to be punctual and to attend all classes.

Students are expected to perform their work with honesty and avoid any academic misconduct, which is defined as the use of any dishonest or deceitful means to gain some academic advantage or benefit. This can take many forms, including but not limited to, the following: copying, plagiarism, collusion and forging documents. For full details, please refer to the Undergraduate Academic Regulations and to the Student Academic Misconduct Policy.

Additionally, this course requires that you:

COURSE INFORMATION			
Course Code	NREC4201	**Course Title**	Applied Environmental Valuation Methods
Semester/ Year		**Section(s)**	
Day, Time, and Place			

Course Coordinator			
Office Location		**Office Hours**	
Office Tel. Ext.		**Email**	

Tentative Schedule			
Week	**Lecture #**	**Topic/Material to be covered**	**Assessment**
1		Welfare Measures and Environmental Values	
2		General Method of Environmental Valuation	
3		Revealed Preference Methods of Valuation	
4		Stated Preferences Methods	
5		Environmental Accounting and Measuring Green GDP	
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APPENDIX A: INSTRUCTORS OF MULTIPLE SECTIONS					
Section	**Instructor**	**Day, Time, and Place**	**Office Location and Extension**	**Email**	**Office Hours**

APPENDIX B: ADDITIONAL INFORMATION