



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF SPATIAL PLANNING**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF ARTS IN**  
**SPATIAL PLANNING, BACHELOR OF SCIENCE IN WATER RESOURCE AND**  
**ENVIRONMENTAL MANAGEMENT, BACHELOR OF SCIENCE IN**  
**CONSTRUCTIONN MANAGEMENT AND BACHELOR OF SCIENCE IN**  
**RENEWABLE ENERGY TECHNOLOGY**  
**SEMESTER 2016/2017 ACADEMIC YEAR**

**CENTRE: MAIN CAMPUS**

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1. COURSE CODE: PES 3411
2. COURSE TITLE: ENVIRONMENTAL IMPACT ASSESSMENT AND AUDITING
3. EXAM VENUE: STREAM: SPATIAL PLANNING

**DATE:**

**EXAM SESSION:**

**TIME: 2 HOURS**

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4. **Instructions:**
  1. Answer question 1 ( compulsory ) and ANY other 2 questions.
  2. Candidates are advised not to write on the question paper.
  3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

1. (a) Explain the following terminologies using appropriate examples as used in EIA/EA
  - (i) Environment (2 marks)
  - (ii) Technology (2 marks)
  - (iii) Auditing (2 marks)
- (b) Outline the various levels in which impacts can be detected by giving appropriate examples (8 marks)
- (c) Briefly discuss determination of human impacts on the environment by giving relevant examples in each case (10 marks)
- (d) List and give examples of known sensitive areas commonly detected during EIA (6 marks)
2. (i) Explain initial Environmental examination and its importance in EIA (6 marks)
- (ii) Discuss the first four phases of EIA process (14 marks)
3. (i) Discuss the various levels of public participation and justify their importance (12 marks)
- (ii) What are the long term benefits of EIA (8 marks)
4. (i) List the various impact identification methods (5 marks)
- (ii) Discuss the main objectives of mitigation (15 marks)
5. (i) Discuss the various categories of stakeholders in EIA process (10 marks)
- (ii) Discuss how land surface processes and characteristics resulting from urban development modify climate (10 marks)