



“Investing in Africa’s future”
COLLEGE OF BUSINESS, PEACE, LEADERSHIP AND GOVERNANCE (CBPLG)

REQUIREMENT ENGINEERING-NCSE 206

END OF FIRST SEMESTER EXAMINATIONS

NOVEMBER 2021

LECTURER: DR. YOGESH AWASTHI

DURATION: 5 HOURS

INSTRUCTIONS

Answer any four questions

Start **each** question on a new page

The marks allocated to **each** question are shown at the end of the section.

Q1. What are the root causes of project success and failure? Identify the Functional and Non-Functional components in each sentence and, for the NFRs, state the category into which they fit.

- i. Users must be able to browse for events by name or date or venue.
- ii. Searching for events by keywords should also be possible.
- iii. User will select ticket price from those offered and also specify the number of tickets they require.
- iv. The system should display availability of the tickets within five seconds.
- v. Users must be able to choose their seats and purchase tickets 24/7.
- vi. Only registered customers can buy tickets.
- vii. Daily reports of ticket sales must be generated. These must be retained for two years.
- viii. All data is to be backed up nightly.
- ix. It should not be possible to double-book tickets (i.e. buy a ticket that has already been sold).
- x. Ad hoc reporting will be required, showing ticket sales over a week. It should be possible to vary that time span and look at any duration up to six months.

(25 marks)

Q2. Do you think that agile methodology will be a game changer in software requirement engineering? If yes which of the agile methodology will be more adaptable and if no then justify your answer with suitable example. **(25 marks)**

Q3. What are the major requisite team skills required for effective requirements management? Explain your answer with suitable example. **(25 marks)**

Q4. Identify five (5) stakeholders (or groups of stakeholders) you think you would need to access for information and suggest suitable techniques for eliciting and exploring their requirements. In each case justify your choice of stakeholder and elicitation technique. **(25 marks)**

Q5. Why is prioritization of requirements important? Describe at least three different scales/aspects/attributes on which prioritization can be done? (Don't write different prioritization methods). For each scale/aspect/attribute: why are they important and what could happen if they were not taken into account?

(25 marks)

END OF PAPER
Good Luck