



TECHNICAL UNIVERSITY OF MOMBASA
Faculty of Business & Social Studies

DEPARTMENT OF MEDIA & GRAPHIC DESIGN

UNIVERSITY EXAMINATIONS FOR DEGREE IN
BACHELOR OF JOURNALISM AND MASS COMMUNICATION
(YIV, SI)

BMC 4405: SOUND ENGINEERING

END OF SEMESTER EXAMINATIONS

SERIES: APRIL 2015

TIME: 2 HOURS

INSTRUCTIONS:

- This paper consists of **TWO** Sections **A & B**.
 - Section **A** is **Compulsory**.
 - Answer any other **Two** questions in Section **B**.
- This paper consists of Two printed pages*

SECTION A (Compulsory)

QUESTION 1

- a) Define the following:
- i) Tracking (2 marks)
 - ii) Mixing (2 marks)
 - iii) Mastering (2 marks)
 - iv) Pre-Amp (2 marks)
 - v) Monitoring (2 marks)
 - vi) Transducers (2 marks)
 - vii) Digital Audio Workstation (2 marks)
 - viii) Noise (2 marks)

- b) Highlight the **TWO** factors that affect the speed of sound waves. **(4 marks)**

QUESTION 2

- a) With the help of a diagram explain the envelope of sound. **(6 marks)**
- b) Differentiate between a fast attack and a slow attack. **(4 marks)**

SECTION B (Answer any Two Questions)

QUESTION 3

- a) Discuss the **FIVE** tools that an audio engineer would use during tracking in audio production. **(10 marks)**
- b) Discuss any **FIVE** uses of the console as used in audio production. **(10 marks)**

QUESTION 4

- a) As a sound engineer educating a new intern in your department, explain to them why the sine wave provides a basic building block of sound. **(10 marks)**
- b) Discuss the characteristics of sound waves in relation to their storage of information function. **(10 marks)**

QUESTION 5

In audio production a sound engineer works above the noise floor and below the point of distortion. Discuss this statement with the help of a well labelled diagram showing the operating levels of an electronic sound system. **(20 marks)**