1. SES221
1.1. SES 221 LAND SURVEYING II: 2 UNITS

The intention here is to widen the knowledge of the students the more in Land surveying and
measurement having opened the way under Land Surveying I. Areas to be covered; anchored on
teaching and practical include:

?? Measurement of existing buildings.

?? Setting out of boundaries, road and simple curves.

?? Setting out for new construction works

?? Leveling; equipment; procedures, booking, readings, reducing and plotting.

?? Sections and contours

?? Setting out for embankments, cutting and drains

?? The theodolite and its uses. Principles of traversing.

?? Calculations of co-ordinates of stations and areas enclosed by traverses.

?? Applied measuration. Measurement and calculation of lengths, girths, areas and volumes, both
regular and irregular from drawings or survey data.

?? Note that while familiarity with the theodolite is required, and extensive knowledge of this
instrument and its use will not be expected. Methods of ensuring the accuracy of data and
calculation should be emphasized.