Tutorial Letter 101/3/2018

Drawing I

DRW1501

Semesters 1 and 2

Department of Civil & Chemical Engineering

This tutorial letter contains important information about your module.
Dear Student

1 INTRODUCTION

Dear Student

Some of this tutorial matter may not be available when you register. Tutorial matter that is not available when you register will be posted to you as soon as possible, but is also available on myUnisa.

2 PURPOSE AND OUTCOMES

2.1 Purpose

To orientate and help students understand the scope of Engineering Graphics and Design as well as the underlying values students should strive to attain.

2.2 Outcomes

- Construct an isometric drawing.
- Perform sectioning in engineering drawings using different methods.
- Perform engineering drawing assemblies.
- Perform dimensioning to a given drawing using the correct methods.
- Produce detailed drawings from the given assemblies.
- Developing by parallel and radial line. etc.

2.3 ECSA Graduate Attribute

To satisfy ECSA Graduate Attribute 6 (professional and technical communication), you must communicate effectively, both orally and in writing within an engineering context.

3 LECTURER(S) AND CONTACT DETAILS

3.1 Lecturer(s)

Lecturer: Mr R Lotz
Tel no: 011-559-6919
Email: reino.unisa@gmail.com
Contact time: Mondays to Fridays: 08h00 to 15h00

Please adhere to the recommended hours
3.2 Department
Department of Civil and Chemical Engineering
Unisa (Florida Campus)
Private Bag x6 Florida
1710
Phone: 011 471 2048/3132
Use the general E-mail address: civil&chemical@unisa.ac.za
Find our department on the Internet at the online address: http://www.unisa.ac.za

3.3 University
http://www.unisa.ac.za

4 RESOURCES
4.1 Prescribed books
Type here

Drawing for engineering
TITLE: Engineering graphics and design
AUTHOR: Engelbrecht, J.
PUBLISHER: H.S.E. CC, PO Box 13904
Hatfield (Pretoria)
0028

Tel: 012 344 2454
Fax: 012 343 9670
YEAR: Latest edition
ISBN: 978-0-9814234-0-1

Obtainable from the publishers
SANS 10111-1 engineering drawing Part 1-1990 – General principles (the code of practice for engineering drawing)
AUTHOR: SABS
PUBLISHER: SABS
YEAR: Latest revision

Please phone the sales department of the SABS at 012 428 6481/6122 or fax them at 012428 6928. Provide a copy of your student card to get a 50% discount.

**PRESCRIBED BOOKS ERRATA’S**

- Page 5-24 – different parts should be hatched at different angles.
- Page 5-25 – different parts should be hatched at different angles.
- Page 5-42 – not drawn in first-angle projection
- (the top view should be below the front view).
- Page 9-10 – figure 1 shows the intersection of two cylinders, not hexagonal prisms (see 9-8).
- Note: In the prescribed book, lower-case lettering is often used in the figures and view descriptions; sub-titles and main titles are printed as headings above the figures.
- Students must always use upper-case lettering, as required by SANS 10111: Part 1-1990, section
- 4.2(e): “Capital letters should be used in preference to lower-case letters, since they are less congested and are less likely to be misread when reduced in size. NOTE: Lower- case letters should be used where they form part of a standard symbol, code or abbreviation.”

4.2 **Recommended books**

Students, who have had no previous drawing experience, and others, will benefit from studying sections from the following books, which cover the basics and are outstanding here reference works. They are highly recommended.

**TITLE** : *Basic engineering drawing*
**AUTHORS** : Rhodes, R.S. & Cook, L.B.
**PUBLISHER** : Pearson Education Limited, England
ISBN : 978-0-582-06594-9

**TITLE** : *Drawing for engineering*
**AUTHOR** : Smith, P.
**PUBLISHER** : Juta, Kenwyn
ISSN : 0-7021-4406-1

TITLE : Workbook: engineering graphics and design G10
AUTHOR : Engelbrecht, J.
PUBLISHER : H.S.E., Hatfield

(This first of three workbooks is a basic companion to the prescribed book.)
The following books are recommended for those students who wish to specialize in engineering
graphics and design:

TITLE : Introduction to graphics communications for engineers
AUTHOR : Bertoline, G.R.
ISBN : 0-07-229144-3
TITLE : Technical graphics communication
AUTHORS : Bertoline, G.R., Wieke, E.N., Hartman, N.W. & Ross,

4.3 Electronic reserves (e-reserves)
All course material is available on myUnisa at https://my.unisa.ac.za under the module
code. Discussion forums may be set up by your lecturer on https://my.unisa.ac.za for
discussions with your peers. Additional electronic resources are available from the library site
(via www.unisa.ac.za). Submit only original drawings in answer to the drawing assignment
questions. Draw in pencil on one side of the (preferably A3 size) blank (unruled) drawing sheet.

Arrange your drawings in sequence (question order) and submit them folded into A4 size with
the drawings on the outside. The use of stencils or CAD for drawing and printing is not
acceptable.

4.4 Library services and resources information
For brief information, go to www.unisa.ac.za/brochures/studies

For detailed information, go to http://www.unisa.ac.za/library. For research support and services of
personal librarians, click on "Research support".
The library has compiled a number of library guides:

- finding recommended reading in the print collection and e-reserves – [http://libguides.unisa.ac.za/request/undergrad](http://libguides.unisa.ac.za/request/undergrad)
- requesting material – [http://libguides.unisa.ac.za/request/request](http://libguides.unisa.ac.za/request/request)
- postgraduate information services – [http://libguides.unisa.ac.za/request/postgrad](http://libguides.unisa.ac.za/request/postgrad)
- finding, obtaining and using library resources and tools to assist in doing research – [http://libguides.unisa.ac.za/Research_Skills](http://libguides.unisa.ac.za/Research_Skills)
- how to contact the library/finding us on social media/frequently asked questions – [http://libguides.unisa.ac.za/ask](http://libguides.unisa.ac.za/ask)

5 STUDENT SUPPORT SERVICES

Important information appears in your *my Studies @ Unisa* brochure.

6 STUDY PLAN

Use your *my Studies @ Unisa* brochure for general time management and planning skills. You must obtain the following equipment to enable you to complete the assignments, and for use in the examination. The same equipment is useful for other drawing work.

- A3 drawing board (with or without a separate T-square)
- T-square for the A3 drawing board (if none is provided)
- scale rule: triangular or flat (not to be used to rule lines)
- compasses for large and small circles (instrument set optional)
- protractor 360°
- set square 45° and 60°/30° (adjustable set square optional)
- erasing shield
- eraser
- pencils, HB and H (two 0,5 mm clutch pencils are recommended)
- masking tape
- A3 blank paper (unlined); copy (duplicating) paper is acceptable for assignments

You may use blank (unlined) A4 paper for some questions. You may fold your A4 sheet to fit the envelope (drawings visible). A3 paper is provided in the exams.
The following companies in Gauteng and elsewhere specialize in drawing equipment and may be able to arrange delivery. This is not a complete list, however.

1) Kimalyn Trading Tel: 011 760 5929/1534
   Fax: 011 279 0001
   E-mail: kimalynshop@telkomsa.net
   Address: 175 Ontdekkers Rd,
   Horizon View, 1729
   (Deliveries arranged country-wide, free in Gauteng and Pretoria. Students may choose from two complete packages of equipment or purchase individual items.)

2) Alf’s Stationers Tel: 011 760 3523/3377
   Fax: 011 674 3278
   Address: 1 Madeline St, Florida, 1710

3) Your local suppliers


Drawing boards are for sale on one of the pages.
You could, in fact, obtain all your drawing equipment from this site.
Should you wish to make use of any of these companies, DO NOT contact your tutor if you have any queries; rather direct these queries to the company concerned.
We recommend that you compare prices of the same makes of product. Check whether VAT is included, what the price is for cash if you collect the goods yourself, whether you are entitled to a student discount, and also the cost of postage, courier services and delivery.

7 PRACTICAL WORK AND WORK-INTEGRATED LEARNING

There are no practicals for this module.
8 ASSESSMENT

8.1 Assessment criteria

The drawings will be assessed on completeness, correctness and neatness.

8.2 Assessment plan

The students’ marks will comprise a year mark that will be gained from 20% formative assignments AND an 80% summative examination (written) of four hours. All assignments are compulsory.

8.3 Assignment numbers

8.3.1 General assignment numbers

Assignments are numbered consecutively per module, starting from 01

8.3.2 Unique assignment numbers

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<thead>
<tr>
<th>FIRST SEMESTER</th>
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8.4 Assignment due dates

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<td>ASSIGNMENT 2</td>
<td>6 April 2018</td>
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<td>ASSIGNMENT 1</td>
<td>24 August 2018</td>
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<tr>
<td>ASSIGNMENT 2</td>
<td>21 September 2018</td>
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</tbody>
</table>
8.5 Submission of assignments
DO NOT E-MAIL ASSIGNMENTS TO YOUR LECTURERS. DO NOT FAX ASSIGNMENTS. DO NOT SUBMIT PARTIALLY COMPLETED ASSIGNMENTS. SUBMIT ONLY COMPLETE, ORIGINAL ASSIGNMENTS AND KEEP COPIES.

Note: The cut-off dates given here are the official, last dates on which a given assignment may be submitted. Students must adhere to these dates only. All other dates referring to cut-off submission dates for assignments, as may be posted on myUnisa or elsewhere, refers to administrative dates as managed by the Assignments Department and does NOT influence or change the above dates.

Website
Please note that the department has a web site where additional information on the department and the modules are available.
The address is:

http://www.unisa.ac.za/Default.asp?Cmd=ViewContent&ContentID=19740 Tutorial

Letters are available from the myUnisa website. (See my Studies @ Unisa)
Should you encounter any problems in submitting an assignment on myUnisa, you may contact the help line at: myUnisaHelp@unisa.ac.za

Plagiarism

An assignment is designed to be a product of your own study and your own thought. It is not intended to be a piece of work which merely reproduces details, information or ideas from a study guide, from books or articles, or from the Internet.

If you do this, you commit plagiarism. Plagiarism is the act of copying word for word with or without acknowledgment from study sources (e.g. books, articles, the Internet). In other words, you must submit your own ideas in your own words, sometimes interspersing relevant short quotations that are properly referenced.

Yes, simply copying a few pages from the prescribed book is plagiarism. Pasting paragraphs from Wikipedia into your assignment is plagiarism. And it does not stop being plagiarism if you mention
the source.

Skilled scientific writers can use direct block quotations to make a specific point. They know what they are doing. You still need to develop your own voice, your own style of arguing the point. Do not plagiarise.

Note that you also commit plagiarism if you copy the assignment of another student. We do encourage you to work together and form study groups, but you are expected to prepare and submit your own assignments.

When we receive two or more identical assignments, we are not able to work out who copied from whom. We will therefore penalize both students.

**If you commit plagiarism you will be penalized and given no marks for your assignment. This will have a serious effect on your chances to succeed in your studies because you will have no semester mark.**

Furthermore, you may be penalized or subjected to disciplinary proceedings by the University. Plagiarism is also an offence in terms of the law.

**A Signed Declaration**

Every essay-type assignment we receive must include the following declaration along with your name and the date:

\[
\text{"I declare that this assignment is my own work and that all sources quoted have been acknowledged by appropriate references".}
\]

We **will** subtract marks if this declaration is absent from your assignment, just as we will subtract marks if your assignment does not have a Table of contents, List of references cited, and so on.
8.6 The assignments

**Assignment 1 SEMESTER 1 (2018)**

Please answer the following Multiple Choice Questions. Each question only has one correct answer.

1. What type of drawing instrument does not fit below?
   - a) Pencil
   - b) Pen
   - c) 60/30 degree set square
   - d) Protractor

2. Which line represents a center line in a drawing?
   - a) ————
   - b) ————
   - c) ————
   - d) ————

3. Which line represents hidden detail in a drawing?
   - a) ————
   - b) ————
   - c) ————
   - d) ————

4. If you use a scale of 5:1. How long will a 30mm line be on paper?
   - a) 150 mm
   - b) 30 mm
   - c) 6 mm
   - d) 120 mm

5. Which statement describes a Polygon best?
   - a) Figure that has 3 or more equal length sides.
   - b) Figure that has 3 or more unequal length sides.
   - c) Figure that has 2 equal length sides.
   - d) Figure that has 2 unequal length sides.

6. In 1st angle orthographic projection. Where relative to the front view will the Plan/top view be?
   - a) Below the front view
   - b) Left of the front view
   - c) Right of the front view
   - d) Above the front view
7. In isometric drawings. What is the angle from horizontal of the lines that represent length and width?
   a) 25°
   b) 30°
   c) 45°
   d) 60°

8. On which drawing in a set of working drawings will you find the layout of your building which includes rooms, windows, doors and etc.?
   a) Locality plans
   b) Site plan
   c) Detail drawings
   d) Floor Plan

9. What information does not fit on a site plan?
   a) Internal walls
   b) Boundary walls
   c) North direction symbol
   d) Sewer line

10. In a drawing title block certain information must be shown. Which one of the following does not fit into a title block?
    a) Date the drawing was produced
    b) Scale of drawing
    c) Name of Architect and Engineer
    d) Drawing itself

[20 marks]
Assignment 2 SEMESTER 1 (2018)

ANSWER THE FOLLOWING QUESTIONS AND SUBMIT ANSWERS AS ASSIGNMENT 02.

THE REQUIREMENTS INCLUDE:

- NEATNESS, CORRECTNESS, COMPLETENESS, ACCURACY, CLEARLY ILLUSTRATED METHODS, LAYOUT, TIDINESS, FEINT BUT CLEAR CONSTRUCTION LINES, NEAT LETTERING WITH GUIDELINES (UPPERCASE, VERTICAL PREFERRED), BORDERS, SUB-TITLES OF VIEWS, DESCRIPTIVE TITLES, SCALE, PROJECTION SYMBOLS, DIMENSIONS, ANNOTATIONS (NOTES), ETC.
- STUDENTS SHOULD DISPLAY THEIR SKILLS AND SHOW THE EXAMINER WHAT THEY KNOW AND THAT THEY UNDERSTAND THE QUESTIONS AND THE METHODS.
- DRAWINGS AND CONSTRUCTIONS TO BE NEATLY COMPLETED TO THE RELEVANT SABS SPECIFICATION AND NEATLY DRAWN AS FINISHED ENGINEERING DRAWINGS AT TERTIARY LEVEL.
- DRAW ON ONE SIDE OF THE DRAWING SHEET ONLY.
- A3 SHEETS TO BE FOLDED TO A4 SIZE WITH DRAWINGS ON THE OUTSIDE OF THE FOLD.
- ANSWERS TO BE ARRANGED IN THE CORRECT SEQUENCE, WITH THE DRAWING SHEETS WITH THE LOWEST ANSWER NUMBERS ON TOP.
- PLEASE NOTE THAT MARKS WILL BE SUBTRACTED FOR NON-COMPLIANCE WITH ANY OF THE ABOVE.
Assignment 2 SEMESTER 1 (2018)

QUESTION 1 (STUDY UNIT 1 and 2)
Study unit 1 and 2 on drawing techniques. Re-draw the given figure below to a scale of 1:2. Do not add any dimensions to your drawing. [10 marks]

QUESTION 2 (STUDY UNIT 2 and 3)
Study unit 2 on dimensioning. Re-draw the given figure below to a scale of 1:1. Add all dimensions as in the figure below to your drawing. Dimensions must be done according to SANS. [10 marks]
QUESTION 3 (STUDY UNIT 4)

Using the four-centre method, construct an ellipse with a major axis of 130 mm and a minor axis of 86 mm to a scale of 1:1. Follow the method illustrated in figure 1 (4-18) in the prescribed book. Clearly show the construction lines used to draw the ellipse.

[10 marks]

QUESTION 4 (STUDY UNIT 5)

An isometric view of a support bracket is given in the figure below. Draw to a scale of 1:1 (full size) in third-angle orthographic projection the front view, right view and top view of the support. Refer to a similar drawing and layout in figure 1 (5-42) in the prescribed book.

Add 15 mm wide borders, descriptions of the views neatly printed below each view, dimensions, a descriptive title below, scale (1:1), projection symbol, and so on, correctly positioned on your drawing. Remember to use thin guidelines for upper-case, vertical lettering (touch top and bottom). Study arcs, tangents and orthographic projection again. The front view is indicated by arrow X.

[10 marks]
QUESTION 5  (STUDY UNIT 5)

Study sectioning in Unit 5 in the prescribed book. Make a neat front view to scale 1:1 of the given figure below. Section line A-A shows were the section must be drawn from. Arrow F in the isometric view indicates the direction of the front view.

[10 marks]

QUESTION 6  (STUDY UNIT 7)

Study the method of surface development of a cylinder in figure 1 (9-5) in the prescribed book.

Neatly draw the given first-angle orthographic views of the truncated, right, hollow, thin-walled cylinder as shown in the prescribed book to a scale of 1:1. The diameter is to be 55 mm, and the overall vertical height is 80 mm with a 45° truncation. Draw the development (pattern) as described and add descriptions of the views, all dimensions, descriptive notes, a title (no title block is required), scale and projection symbol.

Illustrate the method clearly.

Remember that the circumference of a circle = $1\pi \times D$.

[10 marks]
QUESTION 7 (STUDY UNIT 6)

Study isometric drawings in study unit 6 in study guide and in chapter 6, (6 - 9) to (6 - 19) of the prescribed book.

Given below is the 1st angle orthographic drawing of a bracket. Draw to scale 1:1 the isometric drawing. You do not have to show any constructions. Do not add any dimension to your drawing. Do not show any hidden detail in your drawings.

[10 marks]

QUESTION 8 (STUDY UNIT 8)

Redraw the typical site plan in figure 8.1 in the study guide (this plan is also given to you as a model answer in this work book). Your drawing should be NTS and slightly larger than the given drawing. It should be complete, neat (use guidelines) and suitably titled. Add all detail on your drawing.

[10 marks]

QUESTION 9 (STUDY UNIT 8)

Redraw the typical section of a light foundation as in fig 8.6 in the study guide. Your drawing does not have to be to scale but must be well proportioned. It should be complete, neat (use guidelines) and suitably titled. Add all detail on your drawing.

[10 marks]
QUESTION 10  (STUDY UNIT 6)

Study isometric drawings in study unit 6 in study guide and in chapter 6, (6 - 9) to (6 - 19) of the prescribed book.

Given below is the 3rd angle orthographic drawing of a bracket. Draw to scale 1:1 the isometric drawing. You do not have to show any constructions. Do not add any dimensions to your drawing. Do not show any hidden detail in your drawings.

[10 marks]

Total marks [1000]
Assignment 1 SEMESTER 2 (2018)

Please answer the following Multiple Choice Questions. Each question only has one correct answer.

1. What type of drawing instrument do you use to measure out angles in a drawing?
   a) Compass
   b) Protractor
   c) Scale ruler
   d) Circle stencil

2. Which line represents dimension lines in a drawing?
   a)  
   b)  
   c)  
   d)  

3. When dimensioning a drawing according to SANS in both directions, what is the correct way of dimensioning?
   a) Dimension must be written on top and to the left of dimension line
   b) Dimension must be written below and to the right of dimension line
   c) Dimension must be written on top and to the right of dimension line
   d) Dimension must be written below and to the left of dimension line

4. If you use a scale of 1:5. How long will a 125 mm line be on paper?
   a) 5 mm
   b) 12.5 mm
   c) 25 mm
   d) 125 mm

5. If you use a scale of 1:500. How long will a 12 m (meter) line be on paper?
   a) 24 mm
   b) 240 mm
   c) 12 mm
   d) 120 mm
6. Dimensions must be in what units?
   a) Centimeters
   b) Meters
   c) Kilometers
   d) Millimeters

7. In 3rd angle orthographic projection. Where, relative to the front view, will the Right side view be?
   a) Below the front view
   b) Left of the front view
   c) Right of the front view
   d) Above the front view

8. In orthographic projection. What does the following symbol represent?
   ![Symbol]
   a) 1\textsuperscript{st} angle orthographic projection
   b) 2\textsuperscript{nd} angle orthographic projection
   c) 3\textsuperscript{rd} angle orthographic projection
   d) 4\textsuperscript{th} angle orthographic projection

9. Which drawing does not make up a set of working drawings in the building practice?
   a) Locality plans
   b) Assembly drawings
   c) Detail drawings
   d) Site Plan

10. What information does not fit on a floor plan?
    a) Doors
    b) Windows
    c) Boundary Walls
    d) Room descriptions

[20 marks]
Assignment 2 SEMESTER 2 (2018)

ANSWER THE FOLLOWING QUESTIONS AND SUBMIT ANSWERS AS ASSIGNMENT 02.

THE REQUIREMENTS INCLUDE:

- NEATNESS, CORRECTNESS, COMPLETENESS, ACCURACY, CLEARLY ILLUSTRATED METHODS, LAYOUT, TIDINESS, FEINT BUT CLEAR CONSTRUCTION LINES, NEAT LETTERING WITH GUIDELINES (UPPERCASE, VERTICAL PREFERRED), BORDERS, SUB-TITLES OF VIEWS, DESCRIPTIVE TITLES, SCALE, PROJECTION SYMBOLS, DIMENSIONS, ANNOTATIONS (NOTES), ETC.

- STUDENTS SHOULD DISPLAY THEIR SKILLS AND SHOW THE EXAMINER WHAT THEY KNOW AND THAT THEY UNDERSTAND THE QUESTIONS AND THE METHODS.

- DRAWINGS AND CONSTRUCTIONS TO BE NEATLY COMPLETED TO THE RELEVANT SABS SPECIFICATION AND NEATLY DRAWN AS FINISHED ENGINEERING DRAWINGS AT TERTIARY LEVEL.

- DRAW ON ONE SIDE OF THE DRAWING SHEET ONLY.

- SHEETS TO BE FOLDED TO A4 SIZE WITH DRAWINGS ON THE OUTSIDE OF THE FOLD.

- ANSWERS TO BE ARRANGED IN THE CORRECT SEQUENCE, WITH THE DRAWING SHEETS WITH THE LOWEST ANSWER NUMBERS ON TOP.

- PLEASE NOTE THAT MARKS WILL BE SUBTRACTED FOR NON-COMPLIANCE WITH ANY OF THE ABOVE
Assignment 2 SEMESTER 2 (2018)

QUESTION 1 (STUDY UNIT 1 and 2)
Study unit 1 and 2 on drawing techniques. Re-draw the given figure below to a scale of 1:2. Do not add any dimensions to your drawing.

[10 marks]

QUESTION 2 (STUDY UNIT 2 and 3)
Study unit 2 on dimensioning. Re-draw the given figure below to a scale of 1:1. Add all dimensions as in the figure below to your drawing. Dimensions must be done according to SANS.

[10 marks]
QUESTION 3  (STUDY UNIT 4)

Using the four-centre method, construct an ellipse with a major axis of 100 mm and a minor axis of 70 mm to a scale of 1:1. Follow the method illustrated in figure 1 (4-18) in the prescribed book. Clearly show the construction lines used to draw the ellipse.

[10 marks]

QUESTION 4  (STUDY UNIT 5)

An isometric view of a support block is given in the figure below. Draw to a scale of 1:1 (full size) in third-angle orthographic projection the front view, right view and top view of the support. Refer to a similar drawing and layout in figure 1 (5-42) in the prescribed book.

Add 15 mm wide borders, descriptions of the views neatly printed below each view, dimensions, a descriptive title below, scale (1:1), projection symbol, and so on, correctly positioned on your drawing. Remember to use thin guidelines for upper-case, vertical lettering (touch top and bottom). Study arcs, tangents and orthographic projection again. Front view is seen as in direction F.

[10 marks]
QUESTION 5  (STUDY UNIT 5)

Study sectioning in Unit 5 in the prescribed book. Make a neat front view to scale 1:1 of the given figure below. Section line A-A shows where the section must be drawn from. Arrow F in the isometric view indicates the direction of the front view.

[10 marks]

QUESTION 6  (STUDY UNIT 7)

Study the method of surface development of a cylinder in figure 1 (9-5) in the prescribed book.

Neatly draw the given first-angle orthographic views of the truncated, right, hollow, thin-walled cylinder as shown in the prescribed book to a scale of 1:1. The diameter is to be 60 mm, and the overall vertical height is 90 mm with a 45° truncation. Draw the development (pattern) as described and add descriptions of the views, all dimensions, descriptive notes, a title (no title block is required), scale and projection symbol.

Illustrate the method clearly.

Remember that the circumference of a circle = \( \pi \times D \).

[10 marks]
QUESTION 7  (STUDY UNIT 6)

Study isometric drawings in study unit 6 in study guide and in chapter 6, (6 - 9) to (6 - 19) of the
prescribed book.

Given below is the 3rd angle orthographic drawing of a bracket. Draw to scale 1:1 the isometric
drawing. You do not have to show any constructions. Do not add any dimension to your
drawing. Do not show any hidden detail in your drawings.

[10 marks]
QUESTION 8  (STUDY UNIT 6)

Study isometric drawings in study unit 6 in the study guide and in chapter 6, (6 - 9) to (6 - 19) of the prescribed book.

Given below is the 3rd angle orthographic drawing of a bracket. Draw to scale 1:1 the isometric drawing. You do not have to show any constructions. Do not add any dimensions to your drawing. Do not show any hidden detail in your drawings.

[10 marks]

QUESTION 9  (STUDY UNIT 8)

Redraw the typical floor plan in figure 8.3 in the study guide. Your drawing should Not be to scale and slightly larger than the given drawing. It should be complete, neat (use guidelines) and suitably titled. Add all detail on your drawing.

[10 marks]

QUESTION 10  (STUDY UNIT 8)

Redraw the typical open eaves detail as in fig 8.8 in the study guide. Your drawing does not have to be to scale but must be well proportioned. It should be complete, neat (use guidelines) and suitably titled. Add all detail on your drawing.

[10 marks]

Total marks [100]
8.7 Other assessment methods
N/A

8.8 The examination

Type here

<table>
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<th>EXAMINATION INFORMATION FOR DRW111X</th>
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<tr>
<td>Type of examination</td>
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<tr>
<td>Examination language</td>
</tr>
<tr>
<td>Bring your own drawing board and other drawing equipment</td>
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<tr>
<td>Calculators allowed</td>
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<tr>
<td>calculators must be cleared in the presence of the invigilator prior to the start of the examination</td>
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Drawing I consists of practical drawing, but skill and some theoretical Knowledge is obviously necessary.

Note: You must carefully study all of the material in the study guide as well as the references in the prescribed book. You can expect examination questions similar to those encountered in the study guide, your assignments.

9 FREQUENTLY ASKED QUESTIONS

N/A

10 SOURCES CONSULTED

https://my.unisa.ac.za

11 IN CLOSING

Do not hesitate to contact me by email if you are experiencing problems with the content of this tutorial letter or any aspect of the module.

I wish you a fascinating and satisfying journey through the learning material and trust that you will complete the module successfully.

12 ADDENDUM

N/A

28