# **ENSURING THE EXPERTISE TO GROW SOUTH AFRICA**

**Degrees Accredited as Meeting the Educational Requirement for Registration as a Candidate or Professional Engineer** 

**E-20-PE** 

# **REVISION 24: 31 May 2019**

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| Document No.:<br>E-20-PE   | Revision No.: 24  | Effective Date: 31/05/2019                              |                             |
|----------------------------|---|---|-----------------------------|
| Subject: University        | <b>Degrees Accredited</b>   |   |                             |
| Educational Re             |   |   |                             |
|                            | ofessional Engineer   |   | ECSA                        |
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|                            | e Universiteit  | •   |                             |
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|                            | Town  |   |                             |
| •                          | an-Westville  |   |                             |
|                            | Laivoroitoit vir Christoliko  |   |                             |
|                            | Universiteit vir Christelike<br>etoria [University of Pretori   | • •   | •                           |
|                            | Universiteit [Rand Afrikaa  | -   |                             |
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### 1. Purpose

The graduates of the degree programmes listed here belonging to those graduating classes of the years shown against each programme have satisfied the educational requirement toward registration as a Professional Engineer with the Engineering Council of South Africa.

### 2. Notes

- 1. Accreditation is formal recognition awarded to an education or training programme through a quality assurance procedure that it meets criteria laid down for the type of programme
- 2. Accreditation criteria are statements of requirements that must be satisfied by a programme in order to receive accreditation.
- 3. Accreditation visit has three types: Interim visit which refers to a partial accreditation that is awarded until all requirements are met for full accreditation; Final visit refers to a follow-up visit after a partial accreditation to check if outstanding accreditation criteria is met or not and may result to withdrawal of accreditation if the criteria is still no met; and Regular visit refers to the routine visit after full accreditation.
- 4. Validity dates for accreditation apply to the year in which the student completes the programme that is the last year in which the student was registered at the university.
- 5. In the case of the Afrikaans language universities, the university's name, degree designation and branch of the degree are stated in Afrikaans with the English equivalent in square brackets. The abbreviation is not translated.
- 6. The accredited degree fulfils only the educational requirement toward registration as Professional Engineer: further experiential requirements exist.
- 7. **List A** in section 3 contains the degree programmes, which have been accredited as a result of an inspection visit to the university on a five-year cycle.
- 8. **List B** in section 4 contains those degree programmes which were accredited through inspection visit and as a result of the merger, the university name changed.
- 9. **List C** in section 5 contains those degree programmes of South Africa universities recognized prior to the commencement of formal accreditation visits.
- 10. The year of the next regular evaluation visit (next general review) is shown against programmes that are currently offered.

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| Educational              |                              | Degrees Accredited as meeting the equirement for Registration as a offessional Engineer |                             |  |  |
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8. Provisional Accreditation may be granted to a new degree programme, which has been visited when students have completed half the credits for the degree. A regular accreditation visit is required in the year after the first graduates are produced. ECSA recognises graduates between the year of provisional accreditation and the decision of the first regular accreditation.

#### Lists A, B and C for the various universities are found in the Sections shown.

| UNIVERSITY   | LIST A | LIST B | LIST C |
|--|--------|--------|--------|
| University of Cape Town  | 3.1    | -      | 5.1    |
| University of Durban-Westville   | -      | 4.1    | 5.2    |
| University of KwaZulu-Natal<br>(formed by the merger of the University of Natal and<br>University of Durban-Westville in 2004) | 3.2    | -      | -      |
| University of Natal  | -      | 4.2    | 5.3    |
| Nelson Mandela Metropolitan University   | 3.3    | -      | -      |
| North-West University<br>(formerly Potchefstroom University)   | 3.4    | -      | -      |
| Potchefstroom University for Christian<br>higher Education   | -      | 4.3    | 5.4    |
| University of Pretoria   | 3.5    | -      | 5.5    |
| University of Johannesburg<br>(formerly Rand Afrikaans University)   | 3.6    | -      | -      |
| Rand Afrikaans University  | -      | 4.4    | 5.6    |
| University of Stellenbosch   | 3.7    | -      | 5.7    |
| University of the Witwatersrand  | 3.8    | -      | 5.8    |

#### 2.1 Washington Accord Recognition

Engineering programmes listed below have been accredited by ECSA and are recognised as meeting the initial academic requirements for Professional Engineer in South Africa. International recognition of these programmes is provided through the Washington Accord, which was signed in 1989.

Signatories to the Washington Accord have undertaken to make every reasonable effort to ensure that the bodies responsible or registering or licensing engineering technologists to practise in its country or territory mutually recognise the substantial academic equivalence of engineering academic

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programmes accredited by other Accord signatories.

ECSA became a signatory to the Washington Accord in 1999. Other signatories are under no formal obligation to recognise the graduates of accredited programmes prior to 1999. Individual Accord signatories recognise accredited programmes gained prior to 1999 at their own discretion.

Further details about the Washington Accord and details of all current signatories with links to all accreditation listing information can be found at: <u>www.ieagreements.org</u>

## List A: Accredited as a result of an Accreditation Visit

**3.** Degree programmes accredited as meeting the educational requirements toward registration as a Professional Engineer as a result of an accreditation visit

#### 3.1 University of Cape Town

| Degree:       | Bachelor of Science in Engineering |
|---------------|------------------------------------|
| Abbreviation: | BSc (Eng)                          |

| Degree and Branch                     | Duration |      | editation Accreditation |         | litation V | isit Type |
|---------------------------------------|----------|------|-------------------------|---------|------------|-----------|
|                                       | Years    | From | То                      | Interim | Final      | Regular   |
| BSc (Eng) (Chemical Engineering)      | 4        | 1985 | 2020                    |         |            | x         |
| BSc (Eng) (Civil Engineering)         | 4        | 1985 | 2020                    |         |            | x         |
| BSc (Eng) (Electrical Engineering)    | 4        | 1993 | 2020                    |         |            | x         |
| BSc (Eng) (Mechanical Engineering)    | 4        | 1985 | 2020                    |         |            | x         |
| BSc (Eng) (Electrical and Electronic) | 4        | 1985 | 2000                    |         |            | Discont.  |
| BSc (Eng) (Electrical)                | 4        | 2001 | 2005                    |         |            | Discont.  |
| BSc (Eng) (Materials)                 | 4        | 1985 | 2005                    |         |            | Discont.  |
| BSc (Eng) (Electro-Mechanical)        | 4        | 1991 | 2020                    |         |            | X         |

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| -                        | sity Degrees Accredite<br>I Requirement for Reg<br>Professional Enginee | gistration as a   | ECSA                        |
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| Degree and Branch                               | Duration | Accreditation<br>Period |      | Accreditation Visit Type |       |         |
|---|----------|-------------------------|------|--------------------------|-------|---------|
|   | Years    | From                    | То   | Interim                  | Final | Regular |
| BSc (Eng) (Mechatronic Engineering)             | 4        | 1997                    | 2020 |                          |       | x       |
| BSc (Eng) (Electrical and Computer Engineering) | 4        | 2001                    | 2020 |                          |       | x       |

## 3.1 University of KwaZulu-Natal

**Note:** The University of KwaZulu-Natal was founded in 2004 by the merger of the University of Natal and the University of Durban-Westville.

| Degree:       | Bachelor of Science in Engineering                                    |
|---------------|---|
| Abbreviation: | BSc (Eng)   |
| Note:         | Programmes followed by Graduates of years 2004 and 2005 of the former |
|               | University of Durban Westville are identified by Westville Campus.    |

| Degree, Branch and Site of                 | Duration |      | ditation<br>riod | Accrea  | Accreditation Visit 1 |          |
|--|----------|------|------------------|---------|-----------------------|----------|
| Delivery                                   | Years    | From | То               | Interim | Final                 | Regular  |
| BSc (Eng) (Electrical) Westville<br>Campus | 4        | 2004 | 2005             |         |                       | Discont. |
| BSc (Eng) (Mechanical) Westville<br>Campus | 4        | 2004 | 2005             |         |                       | Discont. |
| BSc (Eng) (Chemical) Westville<br>Campus   | 4        | 2004 | 2005             |         |                       | Discont. |
| BSc (Eng) (Electrical)                     | 4        | 2004 | 2019             |         |                       | x        |
| BSc (Eng) (Agricultural)                   | 4        | 2004 | 2019             |         |                       | x        |
| BSc (Eng) (Chemical)                       | 4        | 2004 | 2019             |         |                       | x        |
| BSc (Eng) (Electronic)                     | 4        | 2004 | 2019             |         |                       | x        |
| BSc (Eng) (Civil)                          | 4        | 2004 | 2019             |         | x                     |          |
| BSc (Eng) (Mechanical)                     | 4        | 2004 | 2019             |         |                       | x        |
| BSc (Eng) (Computer Engineering)           | 4        | 2004 | 2019             |         |                       | x        |

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| Educational F            |                              | Degrees Accredited as meeting the equirement for Registration as a offessional Engineer |                             |  |
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#### 3.2 Nelson Mandela University

Degree:Bachelor of EngineeringAbbreviation:BEng

| Degree and Branch  | Duration | Accreditation<br>Period |      | Accreditation Visit Type |       |         |
|--------------------|----------|-------------------------|------|--------------------------|-------|---------|
|                    | Years    | From                    | То   | Interim                  | Final | Regular |
| BEng(Mechatronics) | 4        | 2007                    | 2019 |                          |       | x       |

### 3.3 North-West University

**Note:** North West University was formed in 2004 by the merger of the University of Potchefstroom and the University of North-west, the latter having no BEng/BSc(Eng) programmes)

Degree:Baccalareus in Ingeneurswese[Bachelor of Engineering]AbbreviatioBEng[BIng]

| Degree and Branch   | Duration | Accrec<br>Per | litation<br>iod | Accreditation Visit Type |       |          |
|---|----------|---------------|-----------------|--------------------------|-------|----------|
|   | Years    | From          | То              | Interim                  | Final | Regular  |
| BEng (Chemical)   | 4        | 2004          | 2021            |                          |       | x        |
| BEng (Chemical with specialisation in Minerals Engineering) | 4        | 2004          | 2021            |                          |       | x        |
| BEng (Electrical & Electronic)                              | 4        | 2004          | 2021            |                          |       | x        |
| BEng (Computer & Electronic<br>Engineering)                 | 4        | 2004          | 2021            |                          |       | x        |
| BEng (Mechanical)   | 4        | 2004          | 2021            |                          |       | x        |
| BEng (Mechanical with specialisation in Materials)          | 4        | 2004          | 2006            |                          |       | Discont. |
| *BEng (Industrial Engineering)                              | 4        | 2016          | 2019            |                          |       | x        |

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| Degree and Branch                        | Duration | Accreditation<br>Period |      | Accrea  | litation Vis | it Type |
|--|----------|-------------------------|------|---------|--------------|---------|
| <b>g</b>                                 | Years    | From                    | То   | Interim | Final        | Regular |
| *BEng (Electromechanical<br>Engineering) | 4        | 2017                    | 2019 |         |              | x       |
|  |          |                         |      |         |              |         |

\*provisionally accredited

## 3.4 Universiteit van Pretoria [University of Pretoria]

Degree:Baccalareus in Ingenieurswese[Bachelor of Engineering]Abbreviation:Blng[BEng]

| Degree and Branch  | Duration |      | litation<br>iod | Accrec  | Accreditation Visit Type |          |  |
|--|----------|------|-----------------|---------|--------------------------|----------|--|
|  | Years    | From | То              | Interim | Final                    | Regular  |  |
| BIng (Siviel) [Civil]                                    | 4        | 1983 | 2022            |         |                          | x        |  |
| BIng (Meganies) [Mechanical]                             | 4        | 1983 | 2022            |         |                          | x        |  |
| BIng (Bedryfs) [Industrial]                              | 4        | 1983 | 2022            |         |                          | x        |  |
| BIng (Mynbou) [Mining]                                   | 4        | 1983 | 2022            |         |                          | x        |  |
| BIng (Chemies) [Chemical]                                | 4        | 1983 | 2022            |         |                          | x        |  |
| BIng (Elektries) [Electrical]                            | 4        | 1983 | 2019            | x       |                          |          |  |
| BIng (Mettalurgies) [Metallurgical]                      | 4        | 1983 | 2022            |         |                          | x        |  |
| BIng (Landbou) [Agricultural]                            | 4        | 1983 | 2007            |         |                          | Discont. |  |
| BIng (Elektronies) [Electronic]                          | 4        | 1983 | 2019            | x       |                          |          |  |
| Bing (Rekenaar-Ingenieurswese)<br>[Computer Engineering] | 4        | 2001 | 2019            | x       |                          |          |  |

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3.5 University of Johannesburg (Kingsway Campus, Auckland Park)

**Note:** UJ was formed in 2005 by merger of Rand Afrikaans University and the Technikon Witwatersrand, the latter having no BEng/BSc(Eng) programmes.

Degree:Bacccalareus Ingeneriae [Bachelor of Engineering]Abbreviation:Bing [BEng]

| Degree and Branch   | Duration    |      | litation<br>iod | Accreditation Visit Type |       | sit Type    |
|---|-------------|------|-----------------|--------------------------|-------|-------------|
| Degree and Branch   | Years       | From | То              | Interim                  | Final | Regula<br>r |
| BIng (Siviel) [Civil]   | 4           | 1986 | 2021            |                          |       | x           |
| BIng (Meganies) [Mechanical]  | 4           | 1986 | 2021            |                          |       | x           |
| Bing (Meganiese met Endorsement<br>Inligtingstegnologie)<br>BEng [Mechanical with Endorsement<br>Information Technology]                                  | 4           | 2001 | 2011*           |                          |       | Discont.    |
| BIng (Elektries en Elektronies)<br>[Electrical and Electronic]  | 4           | 1986 | 2021            |                          |       | x           |
| BIng (Elektries en Elektronies met<br>Endorsement Inligtingstegnologie)<br>BEng [Electrical and Electronic with<br>Endorsement Information<br>Technology] | 4           | 2001 | 2021            |                          |       | x           |
| * Accredited as a Mechanical Engineer   | ring Progra | mme  |                 |                          |       |             |

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# 3.6 Universiteit van Stellenbosch [University of Stellenbosch]

Degree:Baccalareus in Ingenieurswese[Bachelor of Engineering]Abbreviation:BIng[B Eng]

| Degree and Branch   | Duration |                   | litation<br>iod   | Accred  | itation V | isit Type |
|---|----------|-------------------|-------------------|---------|-----------|-----------|
|   | Years    | From              | То                | Interim | Final     | Regular   |
| BIng (Chemiese Ingenieurswese)<br>[Chemical Engineering]  | 4        | 1982              | 2023              |         |           | x         |
| BIng (Chemiese rigting Ekstraktiewe<br>Metallurgie) [Chemical – Option Extractive<br>Metallurgy]              | 4        | 1982              | 1993              |         |           | Discont.  |
| BIng (Meganiese Ingenieurswese)<br>[Mechanical Engineering]   | 4        | 1982              | 2020              |         |           | x         |
| BIng (Siviele Ingenieurswese) [Civil Engineering]   | 4        | 1982              | 2023              |         |           | x         |
| BIng (Bedrysingenieurswese) [Industrial Engineering]  | 4        | 1982              | 2023              |         |           | x         |
| BIng (Bedryfsingenieurswese - Rigting<br>Elektronies) [Industrial Engineering -<br>Option Electronic]         | 4        | 1989              | 2008              |         |           | Discont.  |
| BIng (Chemiese Ingenieurswese-Mineraal<br>Prosessering) [Chemical Engineering-<br>Mineral Processing]         | 4        | 1989              | 2008              |         |           | Discont.  |
| Blng (Elektries) [Electrical]   | 4        | 1982              | 1993              |         |           | Discont.  |
| Blng (Elektronies) [Electronic]   | 4        | 1982              | 1993              |         |           | Discont.  |
| Blng (Elektriese- en Elektroniese<br>Ingenieurswese) [Electrical and Electronic<br>Engineering]               | 4        | 1993              | 2020              |         |           | x         |
| Blng (Elektries en Electronies met<br>Rekenaarwetenskap) [Electrical and<br>Electronic with Computer Science] | 4        | <mark>2001</mark> | <mark>2018</mark> |         |           | ×         |
| BIng (Megatronika) [Mechatronic]  | 4        | 2005              | 2023              |         |           | x         |

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3.7 University of the Witwatersrand, Johannesburg

Degree: Abbreviation:

Ba

Bachelor of Science in Engineering BSc (Eng)

| Degree and Branch   | Duration |      | litation<br>iod | Accrec  | litation V | isit Type |
|---|----------|------|-----------------|---------|------------|-----------|
|   | Years    | From | То              | Interim | Final      | Regular   |
| BSc (Eng) in the Branch of Metallurgy   | 4        | 1982 | 2002            |         |            | Discont.  |
| BSc (Eng) in the Branch of Chemical Engineering   | 4        | 1982 | 2019            | x       |            |           |
| BSc (Eng) in the Branch of Civil<br>Engineering   | 4        | 1982 | 2019            |         |            | x         |
| BSc (Eng) in the Branch of Electrical<br>Engineering  | 4        | 1982 | 2019            | x       |            |           |
| BSc (Eng) in the Branch of<br>Mechanical Engineering  | 4        | 1982 | 2022            |         |            | x         |
| BSc (Eng) in the Branch of Mining Engineering   | 4        | 1982 | 2022            |         |            | x         |
| BSc (Eng) in the Branch of<br>Aeronautical Engineering  | 4        | 1988 | 2022            |         |            | x         |
| BSc (Eng) in the Branch of Metallurgy<br>and Materials Engineering (Physical<br>Metallurgy Option)          | 4        | 1988 | 2002            |         |            | Discont.  |
| BSc (Eng) in the Branch of Industrial Engineering   | 4        | 1988 | 2022            |         |            | x         |
| BSc (Eng) in the Branch of Metallurgy<br>and Materials Engineering (Minerals<br>Process Engineering Option) | 4        | 1988 | 2002            |         |            | Discont.  |
| BSc (Eng) in the Branch of Metallurgical and Materials Engineering  | 4        | 2002 | 2022            |         |            | x         |
| BSc (Eng) Civil Engineering –<br>Environmental Engineering Option   | 4        | 2002 | 2009            |         |            | Discont   |
| BSc (Eng) Electrical Engineering –<br>Information Option  | 4        | 2002 | 2019            | x       |            |           |
| * Up to end September 2013  |          |      |                 |         |            |           |

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## List B: Accredited as a result of an Accreditation Visit before university mergers

# 4. Degree programmes accredited through inspection visit and as a result of the merger, the university name changed

#### 4.1 University of Durban-Westville

**Degree:** Bachelor of Engineering / Bachelor of Science in Engineering

Abbreviation: B Eng / BSc (Eng)

Note: See University of KwaZulu-Natal for graduates of 2004 and later years

| Degree and Branch                            | Duration | Accreditat | tion Period |
|--|----------|------------|-------------|
| Degree and Branch                            | Years    | From       | То          |
| BEng (Mechanical)                            | 4        | 1984       | 1989        |
| BEng (Chemical)                              | 4        | 1984       | 1989        |
| BEng (Civil)                                 | 4        | 1984       | 1989        |
| BEng (Electrical)                            | 4        | 1984       | 1989        |
| BEng (Electrical Power)                      | 4        | 1984       | 1992*       |
| BSc (Eng) (Electrical)                       | 4        | 1996       | 2003        |
| BSc (Eng) (Mechanical)                       | 4        | 1990       | 2003        |
| BSc (Eng) (Chemical)                         | 4        | 1990       | 2003        |
| BSc (Eng) (Civil)                            | 4        | 1990       | 2001**      |
| * Up to and including June 1992 examinations |          |            |             |
| ** Up to end 2001 examinations               |          |            |             |

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## 4.2 University of Natal

| Degree:       | Bachelor of Science in Engineering                                    |
|---------------|---|
| Abbreviation: | BSc (Eng)   |
| Note:         | See University of KwaZulu-Natal for graduates of 2004 and later years |

| Degree and Branch                | Duration | Accreditation Period |        |
|----------------------------------|----------|----------------------|--------|
|                                  | Years    | From                 | То     |
| BSc (Eng) (Electrical)           | 4        | 1983                 | 2003   |
| BSc (Eng) (Agricultural)         | 4        | 1983                 | 2003   |
| BSc (Eng) (Chemical)             | 4        | 1983                 | 2003   |
| BSc (Eng) (Electronic)           | 4        | 1983                 | 2003   |
| BSc (Eng) (Civil)                | 4        | 1983                 | 2003   |
| BSc (Eng) (Mechanical)           | 4        | 1983                 | 2003   |
| BSc (Eng) (Computer Engineering) | 4        | 2001                 | 2003 * |
| * Provisional Accreditation      |          |                      |        |

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## 4.3 Potcheftstroomse Universiteit vir Christelike Hoër Onderwys

Degree:Baccalareus in Ingeneurswese [Bachelor of Engineering]Abbreviation:Bing [B Eng]

| Degree and Brench   | Duration | Accreditat | tion Period |
|---|----------|------------|-------------|
| Degree and Branch   | Years    | From       | То          |
| BIng (Chemies) [Chemical]   | 4        | 1984       | 2003        |
| Blng (Elektries) [Electrical]   | 4        | 1984       | 2003        |
| BIng (Elektronies) {[Electronic]  | 4        | 1984       | 2003        |
| Blng (Elektries & Elektronies) {[Electrical & Electronic]   | 4        | 1984       | 2003        |
| BIng (Meganies) [Mechanical]  | 4        | 1984       | 2003        |
| BIng (Metallurgies) [Metallurgical]   | 4        | 1984       | 2001        |
| BIng (Chemies met spesialisering in Mineraalingenieurswese)<br>[Chemical with specialisation in Minerals Engineering] | 4        | 1997       | 2003        |
| BIng (Materiaal) [Materials]  | 4        | 1997       | 2002        |
| BIng (Rekenaar & Elektroniese Ingenieurswese)<br>B Eng [Computer & Electronic Engineering]                            | 4        | 2001       | 2003        |
| BIng (Meganies met spesialisering in Materiale) [Mechanical with specialisation in Materials)                         | 4        | 2001       | 2003        |

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| Document No.:<br>E-20-PE  | Revision No.: 24             | Effective Date: 31/05/2019                              |                              |
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| Subject: University Degrees Accredited as meeting the<br>Educational Requirement for Registration as a<br>Professional Engineer |                              | ECSA  |                              |
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## 4.4 Randse Afrikaanse Universiteit [Rand Afrikaans University]

Degree:Bacccalareus Ingeneriae[Bachelor of Engineering]Abbreviation:BIng[BEng]

| Degree and Branch  | Duration | Accreditati | on Period |
|--|----------|-------------|-----------|
|  | Years    | From        | То        |
| BIng (Siviel) [Civil]  | 4        | 1986        | 2006      |
| BIng (Siviel met Endorsement Inligtingstegnologie)<br>BEng [Civil with Information Technology]   | 4        | 2001        | 2003*     |
| BIng (Meganies) [Mechanical]   | 4        | 1986        | 2006      |
| BIng (Meganiese met Endorsement Inligtingstegnologie) BEng<br>[Mechanical with Endorsement Information Technology]                                     | 4        | 2001        | 2003**    |
| BIng (Elektries en Elektronies) [Electrical and Electronic]  | 4        | 1986        | 2006      |
| BIng (Elektries en Elektronies met Endorsement<br>Inligtingstegnologie)<br>BEng [Electrical and Electronic with Endorsement Information<br>Technology] | 4        | 2001        | 2006      |
| * Provisional Accreditation  |          |             |           |
| ** Accredited as a Mechanical Engineering Programme  |          |             |           |

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|---|------------------------------|---|------------------------------|
| Subject: University Degrees Accredited as meeting the<br>Educational Requirement for Registration as a<br>Professional Engineer |                              | ECSA  |                              |
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# List C: Programmes recognised prior to the commencement of formal accreditation visits

# 5. Degree programmes accredited as meeting the educational requirements toward registration as a Professional Engineer prior to formal accreditation visits

#### 5.1 University of Cape Town

**Degree:** Bachelor of Science / Bachelor of Science in Engineering **Abbreviation:** BSc / BSc (Eng)

| Degree and Branch                      | Duration | Accreditati | on Period |
|--|----------|-------------|-----------|
|  | Years    | From        | То        |
| BSc (Civil)                            | 4        | 1921        | 1972      |
| BSc (Electrical)                       | 4        | 1921        | 1972      |
| BSc (Mechanical)                       | 4        | 1921        | 1972      |
| BSc (Chemical)                         | 4        | 1921        | 1972      |
| BSc (Applied Chemistry)                | 4        | 1921        | 1972      |
| BSc (Applied and Industrial Chemistry) | 4        | 1921        | 1972      |
| BSc (Chemical Engineering)             | 4        | 1921        | 1972      |
| BSc (Eng) (Chemical)                   | 4        | 1973        | 1984      |
| BSc (Eng) (Civil)                      | 4        | 1973        | 1984      |
| BSc (Eng) (Electrical & Electronic)    | 4        | 1973        | 1984      |
| BSc (Eng) (Mechanical)                 | 4        | 1973        | 1984      |

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|                          | Revision No.: 24<br>Degrees Accredite<br>quirement for Reg<br>ofessional Enginee | istration as a  | E C S A                      |
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## 5.2 University of Durban-Westville (from 1973) (Formerly University College of Durban (1961-1972)

Degree:Bachelor of EngineeringAbbreviation:B Eng

| Degree and Branch | Duration | Accreditation Period |      |
|-------------------|----------|----------------------|------|
|                   | Years    | From                 | То   |
| BEng (Mechanical) | 6        | 1970                 | 1980 |
| BEng (Chemical)   | 6        | 1970                 | 1980 |
| BEng (Civil)      | 6        | 1970                 | 1980 |
| BEng (Electrical) | 6        | 1970                 | 1980 |
| BEng (Mechanical) | 4        | 1981                 | 1983 |
| BEng (Chemical)   | 4        | 1981                 | 1983 |
| BEng (Civil)      | 4        | 1981                 | 1983 |
| BEng (Electrical) | 4        | 1981                 | 1983 |

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## 5.3 University of Natal

| Degree:       | Bachelor of Science in Engineering |
|---------------|------------------------------------|
| Abbreviation: | BSc (Eng)                          |

| Degree and Branch        | Duration | Accreditati | on Period |
|--------------------------|----------|-------------|-----------|
|                          | Years    | From        | То        |
| BSc (Eng) (Civil)        | 4        | 1922        | 1982      |
| BSc (Eng) (Electrical)   | 4        | 1922        | 1982      |
| BSc (Eng) (Mechanical)   | 4        | 1922        | 1982      |
| BSc (Eng) (Agricultural) | 4        | 1951        | 1982      |
| BSc (Eng) (Chemical)     | 4        | 1961        | 1982      |
| BSc (Eng) (Electronic)   | 4        | 1981        | 1982      |

## 5.4 Potchefstroomse Universiteit vir Christelike Hoër Onderwys [University of Potchefstroom] Degree: Bachelor of Science / Baccalareus in Ingeneurswese [Bachelor of Engineering]

Abbreviation: BSc / Bing [BSc / BEng]

| Degree and Branch   | Duration | Accredita | tion Period |
|---|----------|-----------|-------------|
|   | Years    | From      | То          |
| BSc (Elektrotegniek) [Electro Technology]                   | 4        | 1974      | 1981        |
| BSc (Ingenieurs Chemie) [Engineering Chemistry]             | 4        | 1974      | 1981        |
| BIng (Chemies) [Chemical]                                   | 4        | 1982      | 1983        |
| BIng (Elektries en Elektronies) [Electrical and Electronic] | 4        | 1982      | 1983        |
| BIng (Meganies) [Mechanical]                                | 4        | 1982      | 1983        |
| BIng (Metallurgies) [Metallurgical]                         | 4        | 1982      | 1983        |

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| -                        |                              | ty Degrees Accredited as meeting the Requirement for Registration as a |                             |
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## 5.5 Universiteit van Pretoria [University of Pretoria]

Degree:Baccalareus in Ingeneurswese [Bachelor of Engineering]Abbreviation:BSc(Ing) / BIng[BSc(Eng) / B Eng]

| Dograp and Branch                             | Duration | Accreditation Period |      |  |
|---|----------|----------------------|------|--|
| Degree and Branch                             | Years    | From                 | То   |  |
| BSc (Ing) (Siviel) [Civil]                    | 4        | 1955                 | 1979 |  |
| Sc (Ing) (Meganies) [Mechanical]              | 4        | 1955                 | 1979 |  |
| BSc (Ing) (Elektrotegnies) [Electrotechnical] | 4        | 1955                 | 1970 |  |
| BSc (Ing) (Bedryfs) [Industrial]              | 4        | 1957                 | 1979 |  |
| BSc (Ing) (Chemies) [Chemical]                | 4        | 1958                 | 1979 |  |
| BSc (Ing) (Mynbou) [Mining]                   | 4        | 1958                 | 1979 |  |
| BSc (Ing) (Elektries) [Electrical]            | 4        | 1970                 | 1979 |  |
| BSc (Ing) (Metallurgies) [Metallurgical]      | 4        | 1973                 | 1979 |  |
| BSc (Ing) (Elektronies) [Electronic]          | 4        | 1975                 | 1979 |  |
| BIng (Siviel) [Civil]                         | 4        | 1980                 | 1982 |  |
| BIng (Meganies) [Mechanical]                  | 4        | 1980                 | 1982 |  |
| BIng (Bedryfs) [Industrial]                   | 4        | 1980                 | 1982 |  |
| BIng (Mynbou) [Mining]                        | 4        | 1980                 | 1982 |  |
| BIng (Chemies) [Chemical]                     | 4        | 1980                 | 1982 |  |
| BIng (Elektries) [Electrical]                 | 4        | 1980                 | 1982 |  |
| BIng (Metallurgies) [Metallurgical]           | 4        | 1980                 | 1982 |  |
| BIng (Landbou) [Agricultural]                 | 4        | 1980                 | 1982 |  |
| BIng (Elektronies) [Electronic]               | 4        | 1980                 | 1982 |  |

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#### 5.6 Randse Afrikaanse Universiteit [Rand Afrikaans University]

Degree: Bachelor of Science (Honours) / Bacccalareus Ingeneriae [Bachelor of Engineering] Abbreviation: BSc(Hons.) / BIng [BSc(Hons.) / BEng]

| Degree and Branch   | Duration | Accreditat | ion Period |
|---|----------|------------|------------|
|   | Year     | From       | То         |
| BSc (Hons) (Elektrotegniek) [Electrotechnical]              | 4        | 1971       | 1981       |
| BIng (Siviel) [Civil]                                       | 4        | 1981       | 1985       |
| BIng (Meganies) [Mechanical]                                | 4        | 1981       | 1985       |
| BIng (Elektries en Elektronies) [Electrical and Electronic] | 4        | 1981       | 1985       |

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| -                        | sity Degrees Accredite<br>Requirement for Reg<br>Professional Enginee | istration as a  | ECSA                        |
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## 5.7 Universiteit van Stellenbosch [University of Stellenbosch]

| Degree:       | Bachelor of Science in Engineering                                     |  |  |
|---------------|--|--|--|
|               | Baccalaureus in die Natuurwetenskappe en Baccalaureus in die           |  |  |
|               | Ingenieurswese geïntegreerde program [Bachelor of Science and Bachelor |  |  |
|               | of Engineering integratedprogramme]                                    |  |  |
|               | Honneurs Baccalaureus in Ingenieursewese [Honours Bachelor of          |  |  |
|               | Engineering] Baccalaureus in Ingenieursewese [Bachelor of Engineering] |  |  |
| Abbreviation: | BSc (Ing) / BSc BIng / Hons BIng / BIng                                |  |  |

[BSc(Eng) / Bsc BEng / Hons BEng / BEng]

| Degree and Branch   | Duration | Accreditat | ion Period |
|---|----------|------------|------------|
|   | Years    | From       | То         |
| BSc BIng (Elektrotegnies) [Electrotechnical] also designated<br>Elektriese en Elektroniese during this period | 5        | 1946       | 1979       |
| BSc BIng (Elektrotegnies en Geofisies) [Electrotechnical and Geophysical]                                     | 5        | 1957       | 1971       |
| BSc BIng (Elektrotegnies Geofisies) [Electrotechnical Geophysical]  | 5        | 1960       | 1971       |
| BSc BIng (Landbou) [Agricultural]   | 5        | 1962       | 1978       |
| BSc BIng (Elektrotegnies Swakstroom) [Electrotechnical Light Current)   | 5        | 1962       | 1971       |
| BSc BIng (Elektrotegnies Swaarstroom) [Electrical Heavy Current]  | 5        | 1962       | 1971       |
| BSc BIng (Lugvaartkunde) [Aeronautical]   | 5        | 1966       | 1967       |
| BSc BIng (Chemies) [Chemical]   | 5        | 1968       | 1977       |
| Hons BIng (Siviel) [Civil]  | 1        | 1972       | 1983       |
| Hons BIng (Werktuigkunde) [Mechanical]  | 1        | 1972       | 1973       |
| Hons BIng (Elektronies) [Electronic]  | 1        | 1972       | 1983       |

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| Educational Requirement for Registration as a<br>Professional Engineer |                              | ECSA  |                             |
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| Degree and Branch  | Duration | Accreditation Period |      |
|--|----------|----------------------|------|
|  | Years    | From                 | То   |
| BIng (Meganies) [Mechanical]   | 4        | 1974                 | 1977 |
| BSc (Ing) (Elektronies) [Electronic]   | 4        | 1978                 | 1978 |
| BSc (Ing) (Siviel) [Civil]   | 4        | 1978                 | 1978 |
| BSc (Ing) (Meganies) [Mechanical]  | 4        | 1978                 | 1978 |
| BSc (Ing) (Chemies) [Chemical]   | 4        | 1978                 | 1978 |
| BSc (Ing) (Chemies en Ekstraksie Metallurgie) [Chemical and Extraction Metallurgy] | 4        | 1978                 | 1978 |
| BIng (Siviel) [Civil]  | 4        | 1972                 | 1981 |
| BIng (Chemies) [Chemical]  | 4        | 1972                 | 1981 |
| BIng (Elektrotegnies-Marine) [Electrotechnical-Marine]                             | 5        | 1972                 | 1979 |
| BIng (Meganies) [Mechanical]   | 4        | 1974                 | 1981 |
| BIng (Meganies-Marine) [Mechanical-Marine]   | 5        | 1974                 | 1979 |
| BIng (Elektrotegnies) [Electrotechnical]   | 4        | 1979                 | 1979 |
| BIng (Bedryfs-Meganies) [Industrial-Mechanical]                                    | 4        | 1981                 | 1981 |

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### 5.8 University of the Witwatersrand, Johannesburg

| Degree:       | Bachelor of Science in Engineering |
|---------------|------------------------------------|
| Abbreviation: | BSc (Eng)                          |

| Degree and Branch      | Duration | Accreditation Period |      |
|------------------------|----------|----------------------|------|
|                        | Years    | From                 | То   |
| BSc (Eng) (Chemical)   | 4        | 1922                 | 1981 |
| BSc (Eng) (Civil)      | 4        | 1922                 | 1981 |
| BSc (Eng) (Electrical) | 4        | 1922                 | 1981 |
| BSc (Eng) (Mechanical) | 4        | 1922                 | 1981 |
| BSc (Eng) (Metallurgy) | 4        | 1922                 | 1981 |
| BSc (Eng) (Mining)     | 4        | 1922                 | 1981 |

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## 6. Revision History

| Revision Number | Revision Date | Revision Details   | Approved<br>By |
|-----------------|---------------|--|----------------|
| Draft A         | 22 May 1998   | Reformatting existing list into S&P format   |                |
| Revision – 0    | 11 June 1998  | Editorial  | UAC            |
| Revision - 1    | 7 Aug 1998    | Editorial  | UAC            |
| Revision - 2    | 3 Nov 1998    | Stellenbosch and Natal programmes updated  | UAC            |
| Revision - 3    | 1 June 1999   | Tables Reformatted, Notes added, Section 4.7 corrected                                   | UAC            |
| Revision - 4    | 28 Jan 2000   | UDW programmes updated, minor corrections  | UAC            |
| Revision - 5    | 5 May 2003    | Updating CT, UDW, Potch, Pretoria, RAU,<br>Wits programmes                               | UAC            |
| Revision - 6    | 17 Feb 2004   | Updating Potch, Pretoria, Natal, Stellenbosch & Wits programmes                          | UAC            |
| Revision - 7    | 27 July 2004  | New names – Potch, UDW & Natal Updated<br>UCT& RAU                                       | UAC            |
| Revision – 8    | 16 Nov 2004   | Updating Stellenbosch, Kwazulu –Natal  | UAC            |
| Revision - 9    | 19 July 2005  | Correcting Potch/North-West University & updating UCT & UKZN accreditation status        | UAC            |
| Revision - 10   | 18 July 2006  | Updating Stellenbosch University, North-West<br>University & University of Johannesburg. | UAC            |
| Revision - 11   | 08 July 2009  | Updating of UKZN & Stellenbosch University   | EPAC           |
| Revision - 12   | 11 Nov 2011   | Updating of NWU  | EPAC           |
| Revision - 13   | 18 July 2012  | Updating of NWU  | EPAC           |
| Revision - 14   | 29 Nov 2012   | Updating of UP, UCT, Wits  | EPAC           |
| Revision - 15   | 17 July 2013  | Updating of Wits   | EPAC           |
| Revision - 16   | 11 Nov 2013   | Updating of UJ, US, UKZN & NWU   | EPAC           |
| Revision-17     | 02 June 2014  | Updating of Stellenbosch   | EPAC           |

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| Revision Number         | Revis  | sion Date               | Revision Deta   | ails  |                                       | Approved<br>By            |  |
| Revision-18             | 05 No  | ov 2014                 | Updating of UP,UJ, NMMU   |   |                                       | EPAC                      |  |
| Revision -19            | 25 Fe  | eb 2016                 | 16 Updating of UCT, UKZN  |   |                                       | EPAC                      |  |
| Revision - 20           | 31 Ja  | n 2017 Updating of NWU, |   | NU, UJ, UKZN  |                                       | EPAC                      |  |
| Revision-21             | 31 Au  | ıg 2017                 | Updating of NWU   |   |                                       |                           |  |
| Revision 22             | 07 M   | ar 2018                 | Editing UCT programme, reformatting and including different types of accreditation visits Updating UCT; NWU; Wits; UP |   | J Cato<br>EC                          |                           |  |
| Revision 23             | 10 Ap  | oril 2018               | Approval  |   | PDSGC                                 |                           |  |
| Revision 24             | 31 M   | ay 2019                 | Updating UKZN, NWU,US, UJ and UP  |   | Executive:<br>Regulatory<br>Functions |                           |  |

The List for:

## University Degrees Accredited as meeting the Educational Requirement for Registration as a Professional Engineer

Revision 24 dated 31 May 2019 and consisting of 25 pages has been reviewed for adequacy by the Business Unit Manager and is approved by the Executive: Regulatory Functions

Hunght

Business Unit Manager

......31 May 2019...... Date

Executive: **Regulatory Functions** 

......3 June 2019..... Date

The definitive version of this policy is available on our website.

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