


ENGINEERING COUNCIL OF SOUTH AFRICA <i>Standards and Procedures System</i>			 E C S A
University Degrees Accredited as meeting the Educational Requirement for Registration as a Professional Engineer			
Status: Approved by Engineering Programme Accreditation Committee			
Document : E-20-PE	Rev-13	01 February 2011	

1. Purpose

The graduates of the degree programmes listed here belonging to that 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. 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.
2. 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.
3. The accredited degree fulfils only the educational requirement toward registration as Professional Engineer: further experiential requirements exist.
4. **List A** in section 3 contains these degree programmes, which have been accredited as a result of an inspection visit to the university on a five-year cycle.
5. **List B** in section 4 contains those degree programmes of South Africa universities recognised prior to the commencement of formal accreditation visits.
6. The year of the next regular evaluation visit (next general review) is shown against programmes that are currently offered.
- 7.. 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 and B for the various universities are found in the Sections shown.

University	List A	List B
University of Cape Town	3.1	4.1
University of Durban-Westville	3.2	4.2
University College of Durban	-	4.2
University of KwaZulu-Natal (formed by the merger of the University of Natal and University of Durban-Westville in 2004)	3.3	
University of Natal	3.4	4.3
Nelson Mandela Metropolitan University	3.5	
North-West University (formerly Potchefstroom University)	3.6	
Potchefstroom University for Christian higher Education	3.7	4.4
University of Pretoria	3.8	4.5
University of Johannesburg (formerly Rand Afrikaans University)	3.9	4.6
University of Stellenbosch	3.10	4.7
University of the Witwatersrand, Johannesburg	3.11	4.8

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 for registering or licensing engineering technologists to practise in its country or territory mutually recognise the substantial academic equivalence of engineering academic 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: www.ieagrements.org

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	Accredited		Next Regular Visit
	Year	From	To	
BSc (Eng) (Chemical Engineering)	4	1985	2012	2015
BSc (Eng) (Civil Engineering)	4	1985	2015	2015
BSc (Eng) (Electrical Engineering)	4	1993	2012	2015
BSc (Eng) (Mechanical Engineering)	4	1985	2015	2015
BSc (Eng) (Electrical and Electronic)	4	1985	1992	
BSc (Eng) (Materials)	4	1985	2005	
BSc (Eng) (Electro-Mechanical)	4	1991	2015	2015
BSc (Eng) (Mechatronic Engineering)	4	1997	2012	2015
BSc (Eng) (Electrical and Computer Engineering)	4	2001	2012	2015

3.2 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	Accredited	
	Year	From	To
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			

3.3 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 Delivery	Duration	Accredited		Next Regular Visit
	Year	From	To	
BSc (Eng) (Electrical) Westville Campus	4	2004	2005	
BSc (Eng) (Mechanical) Westville Campus	4	2004	2005	
BSc (Eng) (Chemical) Westville Campus	4	2004	2005	
BSc (Eng) (Electrical)	4	2004	2013	2013
BSc (Eng) (Agricultural)	4	2004	2013	2013
BSc (Eng) (Chemical)	4	2004	2013	2013
BSc (Eng) (Electronic)	4	2004	2013	2013
BSc (Eng) (Civil)	4	2004	2013	2013
BSc (Eng) (Mechanical)	4	2004	2011	2013
BSc (Eng) (Computer Engineering)	4	2004	2013	2013

3.4 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	Accredited	
	Year	From	To
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

3.4 Nelson Mandela Metropolitan University

Degree: Bachelor Engineering

Abbreviation: BEng

Degree and Branch	Duration	Accredited		Next Regular Visit
	Year	From	To	
BEng (Mechatronics)	4	2007	2011	2014

3.5 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]

Abbreviation: BIng [B Eng]

Degree and Branch	Duration	Accredited		Nex Regular Visit
	Year	From	To	
BIng (Chemies) [Chemical]	4	2004	2011	2011
BIng (Elektries & Elektronies) [Electrical & Electronic]	4	2004	2011	2011
BIng (Meganies) [Mechanical]	4	2004	2011	2011
BIng (Chemiese met spesialisering in Mineraalingenieurswese) [Chemical with specialisation in Minerals Engineering]	4	2004	2011	2011
BIng (Rekenaar & Elektroniese Ingenieurswese) B Eng [Computer & Electronic Engineering]	4	2004	2011	2011
BIng (Meganies met spesialisering in Materiale) [Mechanical with specialisation in Materials]	4	2004	2006	

3.6 Potcheftstroomse Universiteit vir Christelike Hoër Onderwys

Degree: Baccalareus in Ingenieurswese [Bachelor of Engineering]

Abbreviation: BIng [B Eng]

Degree and Branch	Duration	Accredited	
	Year	From	To
BIng (Chemies) [Chemical]	4	1984	2003
BIng (Elektries) [Electrical]	4	1984	2003
BIng (Elektronies) {[Electronic]	4	1984	2003
BIng (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) [Chemical with specialisation in Minerals Engineering]	4	1997	2003
BIng (Materiaal) [Materials]	4	1997	2002
BIng (Rekenaar & Elektroniese Ingenieurswese) B Eng [Computer & Electronic Engineering]	4	2001	2003
BIng (Meganies met spesialisering in Materiale) [Mechanical with specialisation in Materials]	4	2001	2003

3.7 Universiteit van Pretoria [University of Pretoria]

Degree: Baccalareus in Ingenieurswese [Bachelor of Engineering]

Abbreviation: BIng [BEng]

Degree and Branch	Duration	Accredited		Next Regular Visit
	Year	From	To	
BIng (Siviel) [Civil]	4	1983	2012	2012
BIng (Meganies) [Mechanical]	4	1983	2012	2012
BIng (Bedryfs) [Industrial]	4	1983	2012	2012
BIng (Mynbou) [Mining]	4	1983	2012	2012
BIng (Chemies) [Chemical]	4	1983	2012	2012
BIng (Elektries) [Electrical]	4	1983	2012	2012
BIng (Mettalurgies) [Metallurgical]	4	1983	2012	2012
BIng (Landbou) [Agricultural]	4	1983	2007	
BIng (Elektronies) [Electronic]	4	1983	2012	2012
BIng (Rekenaar-Ingenieurswese) [Computer Engineering]	4	2001	2012	2012

3.8 Randse Afrikaanse Universiteit [Rand Afrikaans University]

Degree: Baccalareus Ingenieriae [Bachelor of Engineering]

Abbreviation: BIng [BEng]

Degree and Branch	Duration	Accredited	
	Year	From	To
BIng (Siviel) [Civil]	4	1986	2006
BIng (Siviel met Endorsement Inligtingstegnologie) BEng [Civil with Information Technology]	4	2001	2003*
BIng (Meganies) [Mechanical]	4	1986	2006
BIng (Meganiese met Endorsement Inligtingstegnologie) BEng [Mechanical with Endorsement Information Technology]	4	2001	2003**
BIng (Elektries en Elektronies) [Electrical and Electronic]	4	1986	2006
BIng (Elektries en Elektronies met Endorsement Inligtingstegnologie) BEng [Electrical and Electronic with Endorsement Information Technology]	4	2001	2006
* Provisional Accreditation			
** Accredited as a Mechanical Engineering Programme			

3.9 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: Baccalareus Ingenieriae [Bachelor of Engineering]

Abbreviation: BIng [BEng]

Degree and Branch	Duration	Accredited		Next Regular Visit
	Year	From	To	
BIng (Siviel) [Civil]	4	1986	2011	2011
BIng (Meganies) [Mechanical]	4	1986	2011	2011
BIng (Meganiese met Endorsement Inligtingstegnologie) BEng [Mechanical with Endorsement Information Technology]	4	2001	2011**	2011
BIng (Elektries en Elektronies) [Electrical and Electronic]	4	1986	2011	2011
BIng (Elektries en Elektronies met Endorsement Inligtingstegnologie) BEng [Electrical and Electronic with Endorsement Information Technology]	4	2001	2011	2011
** Accredited as a Mechanical Engineering Programme				

3.10 Universiteit van Stellenbosch [University of Stellenbosch]

Degree: Baccalareus in Ingenieurswese [Bachelor of Engineering]

Abbreviation: BIng [B Eng]

Degree and Branch	Duration	Accredited		Next Regular Visit
	Year	From	To	
BIng (Chemiese Ingenieurswese) [Chemical Engineering]	4	1982	2013	2013
BIng (Chemiese rigting Ekstraktiewe Metallurgie) [Chemical – Option Extractive Metallurgy]	4	1982	1993	2013
BIng (Meganiese Ingenieurswese) [Mechanical Engineering]	4	1982	2013	2013
BIng (Siviele Ingenieurswese) [Civil Engineering]	4	1982	2013	2013
BIng (Bedrysingenieurswese) [Industrial Engineering]	4	1982	2013	2013
BIng (Bedryfsingenieurswese - Rigting Elektronies) [Industrial Engineering - Option Electronic]	4	1989	2008	
BIng (Chemiese Ingenieurswese-Mineraal Prosessering) [Chemical Engineering-Mineral Processing]	4	1989	2008	
BIng (Elektries) [Electrical]	4	1982	1993	
BIng (Elektronies) [Electronic]	4	1982	1993	
BIng (Elektriese- en Elektroniese Ingenieurswese) [Electrical and Electronic Engineering]	4	1993	2013	2013
BIng (Elektries en Electronies met Rekenaarwetenskap) [Electrical and Electronic with Computer Science]	4	2001	2013	2013
BIng (Megatronika) [Mechatronic]	4	2005	2013	2013

3.11 University of the Witwatersrand, Johannesburg

Degree: Bachelor of Science in Engineering

Abbreviation: BSc (Eng)

Degree and Branch	Duration	Accredited		Next regular Visit
	Year	From	To	
BSc (Eng) in the Branch of Metallurgy	4	1982	2002	
BSc (Eng) in the Branch of Chemical Engineering	4	1982	2012	2012
BSc (Eng) in the Branch of Civil Engineering	4	1982	2012	2012
BSc (Eng) in the Branch of Electrical Engineering	4	1982	2012	2012
BSc (Eng) in the Branch of Mechanical Engineering	4	1982	2012	2012
BSc (Eng) in the Branch of Mining Engineering	4	1982	2012	2012
BSc (Eng) in the Branch of Aeronautical Engineering	4	1988	2012	2012
BSc (Eng) in the Branch of Metallurgy and Materials Engineering (Physical Metallurgy Option)	4	1988	2002	
BSc (Eng) in the Branch of Industrial Engineering	4	1988	2012	2012
BSc (Eng) in the Branch of Metallurgy and Materials Engineering (Minerals Process Engineering Option)	4	1988	2002	
BSc (Eng) in the Branch of Metallurgical and Materials Engineering	4	2002	2012	2012
BSc (Eng) Civil Engineering – Environmental Engineering Option	4	2002	2012	2012
BSc (Eng) Electrical Engineering – Information Option	4	2002	2012	2012

List B

Programmes recognised prior to the commencement of formal accreditation visits

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

4.1 University of Cape Town

Degree: Bachelor of Science / Bachelor of Science in Engineering

Abbreviation: BSc / BSc (Eng)

Degree and Branch	Duration	Accredited	
	Year	From	To
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)	4	1973	1984
BSc (Eng) (Mechanical)	4	1973	1984

4.2 University of Durban-Westville (from 1973) (Formerly University College of Durban (1961-1972))

Degree: Bachelor of Engineering

Abbreviation: B Eng

Degree and Branch	Duration	Accredited	
	Year	From	To
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

4.3 University of Natal

Degree: Bachelor of Science in Engineering

Abbreviation: BSc (Eng)

Degree and Branch	Duration	Accredited	
	Year	From	To
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

4.4 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	Accredited	
	Year	From	To
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

4.5 Universiteit van Pretoria [University of Pretoria]

Degree: Baccalareus in Ingeneurswese [Bachelor of Engineering]

Abbreviation: BSc(Ing) / BIng [BSc(Eng) / B Eng]

Degree and Branch	Duration	Accredited	
	Year	From	To
BSc (Ing) (Siviël) [Civil]	4	1955	1979
BSc (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 (Siviël) [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

4.6 Randse Afrikaanse Universiteit [Rand Afrikaans University]

Degree: Bachelor of Science (Honours) / Baccalareus Ingenieriae
[Bachelor of Engineering]

Abbreviation: BSc(Hons.) / BIng [BSc(Hons.) / BEng]

Degree and Branch	Duration	Accredited	
	Year	From	To
BSc (Hons) (Elektrotegniek) [Electrotechnical]	4	1971	1981
BIng (Siviël) [Civil]	4	1981	1985
BIng (Meganies) [Mechanical]	4	1981	1985
BIng (Elektries en Elektronies) [Electrical and Electronic]	4	1981	1985

4.7 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
 integrated programme]
 Honneurs Baccalaureus in Ingenieurswese [Honours Bachelor of Engineering]
 Baccalaureus in Ingenieurswese [Bachelor of Engineering]

Abbreviation: BSc (Ing) / BSc BIng / Hons BIng / BIng
 [BSc(Eng) / Bsc BEng / Hons BEng / BEng]

Degree and Branch	Duration	Accredited	
	Year	From	To
BSc (Ing) (Siviel) [Civil]	5	1945	1956
BSc (Ing) (Werktuigkunde) [Mechanical]	5	1945	1970
BSc (Ing) (Elektrotegnies) [Electrotechnical]	5	1945	1956
BSc BIng (Siviel) [Civil]	5	1957	1979
BSc BIng (Werktuigkunde) [Mechanical] also designated Meganies during this period	5	1945	1979
BSc BIng (Elektrotegnies) [Electrotechnical] also designated 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
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

4.8 University of the Witwatersrand, Johannesburg

Degree: Bachelor of Science in Engineering

Abbreviation: BSc (Eng)

Degree and Branch	Duration	Accredited	
	Year	From	To
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

5. Revision History

Version	Date	Revision approved by	Nature of revision
Draft - A	22 May 1998		Reformatting existing list into S&P format
Revision - 0	11 June 1998	UAC	Editorial
Revision - 1	7 August 1998	UAC	Editorial
Revision - 2	3 November 1998	UAC	Stellenbosch and Natal programmes updated
Revision - 3	1 June 1999	UAC	Tables Reformatted, Notes added, Section 4.7 corrected
Revision - 4	28 January 2000	UAC	UDW programmes updated, minor corrections
Revision - 5	5 May 2003	UAC	Updating CT, UDW, Potch, Pretoria, RAU, Wits programmes
Revision - 6	17 February 2004	UAC	Updating Potch, Pretoria, Natal, Stellenbosch & Wits programmes
Revision - 7	27 July 2004	UAC	New names – Potch, UDW & Natal Updated UCT & RAU
Revision – 8	16 November 2004	UAC	Updating Stellenbosch, Kwazulu –Natal
Revision - 9	19 July 2005	UAC	Correcting Potch/North-West University & updating UCT & UKZN accreditation status
Revision - 10	18 July 2006	UAC	Updating Stellenbosch University, North-West University & University of Johannesburg.
Revision - 12	08 July 2009	EPAC	Updating of UKZN & Stellenbosch University
Revision - 13	31 January 2011	EPAC	Amendment to UCT BEng Elec & Electro

