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GOVERNMENT NOTICES GOEWERMENTSKENNISGEWINGS

DEPARTMENT OF EDUCATION DEPARTEMENT VAN ONDERWYS

10 October 2003

HIGHER EDUCATION ACT, 1997 (Act No. 101 of 1997)

POLICY AND PROCEDURES FOR MEASUREMENT OF RESEARCH OUTPUT OF PUBLIC HIGHER EDUCATION INSTITUTIONS

I, Professor Kader Asmal, MP, Minister of Education, in accordance with Section 3(1) of the Higher Education Act, 1997 (Act 101 of 1997), and after consulting the Council on Higher Education, has determined the policy set out in the Schedule hereto with regard to the policy and procedures for measurement of research output of public higher education institutions. The policy is, in terms of the provisions of Section 3(2) of the said Act, hereby published and comes into operation on 1 January 2005.

Professor Kader Asmal, MP. Minister of Education

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POLICY FOR MEASUREMENT OF RESEARCH OUTPUT OF PUBLIC HIGHER EDUCATION INSTITUTIONS

1. Introduction

This document entitled Policy for Measurement of Research Output of Public Higher Education Institutions replaces the following policies:

Information Survey Manual - Research Output of Universities (Report 014/97)

Information Survey Manual - Research Output of Technikons (Report 024 /97)

In line with the White Paper 3, a Programme for the Transformation of Higher Education (1997) which outlines a single co-ordinated higher education system, this policy applies to all public higher education institutions, and thus does not differentiate between universities and technikons. As a consequence, its implementation will also not be differentiated according to institutional type.

2. Policy Framework

The development of this policy was driven by the imperatives for transformation of the higher education system contained in *White Paper 3, a Programme for the Transformation of Higher Education* (1997) and the National Plan for Higher Education (2001).

As part of the strategic objective envisioned by the National Plan for Higher Education, this policy aims "to sustain current research strengths and to promote research and other knowledge outputs required to meet national development needs." (p. 70, National Plan for Higher Education)

The purpose of this policy is to encourage research productivity by rewarding quality research output at public higher education institutions. However, the policy is not intended to measure all output, but to enhance productivity by recognising the major types of research output produced by higher education institutions and further use appropriate proxies to determine the quality of such output. As a general rule, research output emanating from commissioned research or contracts paid by contracting organisations will not be subsidised by the Department of Education.

Research output is defined as textual output where research is understood as original, systematic investigation undertaken in order to gain new knowledge and understanding. Peer evaluation of the research is a fundamental prerequisite of all recognised output and is the mechanism of ensuring and thus enhancing quality.

The policy has also taken into consideration the changing modes of disseminating research and research output, such as electronic publications and further outlines processes and procedures that are appropriate to the purpose and commensurate with best practice. Research output published electronically may be recognised if they meet specified criteria.

While the policy recognises different types of research output for purposes of subsidy, it does not support differentiation within types of output.

The subsidy for research output is also influenced by the affiliation of the authors. The claiming institution accrues full subsidy if all the authors are affiliated to the claiming institution. In the case where authors are affiliated with two or more institutions, the subsidy is shared between the claiming institutions.

Affiliated authors are defined as academic or research staff, research students, visiting scholars or fellows and retired academics from the claiming institution. The contact address reflected in the research output of such authors must be the address of the claiming institution.

Higher education institutions may only claim once for each subsidisable research output. Institutions must claim the outputs with a publication date of the preceding year (n-1) in the current reporting year (n).

3. Recognised Research Output

For the purpose of subsidy, recognised research output, in terms of this policy comprise journals, books and proceedings.

Journals

Journals, refer to peer reviewed periodical publications devoted to disseminating original research and new developments within specific disciplines, sub-disciplines or field of study. These include original articles, research letters, research papers, and review articles. However, only approved journals are subsidised.

Books

Books refer to peer reviewed, non-periodical scholarly or research publications disseminating original research on developments within specific disciplines, subdiscipline or field of study. Only books that meet specified criteria are subsidised. Examples of different types of books include:

Monographs, which are relatively short books or treatise on a single scholarly subject written by a specialist(s) in the field and are generally not extensive in scope.

Chapters, which are one or more major divisions in a book, each complete in itself but related in theme to the division preceding or following it.

Edited works, are collections of scholarly contributions written by different authors and related in theme. A book may have one or more editors.

Proceedings

Proceedings refer to a published record of a conference, congress, symposium or other meeting whose purpose is to disseminate original research and new developments within specific disciplines, sub-disciplines or field of study. Only proceedings that meet specified criteria are subsidized.

4. Criteria for Recognised Research Output

Recognised research output meeting specified criteria are eligible for subsidisation. Below are the criteria for subsidising output of journals, books and proceedings.

Journals

Journals must meet the following minimum criteria to be eligible for inclusion in the list of approved journals:

- (a) The purpose of the journal must be to disseminate research results and the content must support high level learning, teaching and research in the relevant subject area
- (b) Articles accepted for publication in the journal must be peer reviewed
- (c) The majority of contributions to the journal must be beyond a single institution
- (d) The journal must have an International Standard Serial Number (ISSN)
- (e) The journal must be published regularly
- (f) The journal must have an editorial board that includes members beyond a single institution and is reflective of expertise in the relevant subject area
- (g) The journal must be distributed beyond a single institution

For purposes of subsidy, only qualifying journals in the following categories are recognised:

(1) Journals appearing in the following international indices are included in the list of approved journals;

(a) The Sciences Citation Index of the Institute of Scientific Information (ISI)

(b) The Social Sciences Citation Index of the ISI

(c) The Arts and Humanities Citation Index of the ISI

(d) The International Bibliography of Social Sciences (IBSS)

(2) South African journals not appearing in the above indices, but whose seat of publication is in South Africa and which meet the above minimum criteria are also included in the list of approved journals. These journals are included in a separate index of Approved South African Journals maintained by the Department of Education (DoE) and subject to an annual review.

South African journals are encouraged to adopt a policy of including abstracts in English if the language of the journal is not in English. This will facilitate possible inclusion of the journal in international indices such as the ISI and the IBSS.

The following types of articles appearing in journals are not subsidised.

- (a) Correspondence to the editors
- (b) Abstracts or extended abstracts
- (c) Obituaries
- (d) Book reviews
- (e) News articles
- (f) Advertorials

Books and Proceedings

The Department of Education establishes for each reporting year, an evaluation panel of senior professionals from the higher education community to evaluate all books and proceedings submitted by claiming institutions. In the event that either the book or proceedings is published in a language either than English, the institution must submit a summary of the output in English with a minimum of one page for books and an abstract for proceedings. Similarly, any supporting evidence or documentation must also be provided in English.

The minimum contribution from a book that will be considered for evaluation will be a complete division of a book such as a chapter. The independent panel evaluates books and proceedings together with the relevant accompanying information individually prior to recommending the allocation of units for each book or proceeding based on the following minimum criteria.

Books

- (a) The purpose of the book must be to disseminate original research and new developments within specific disciplines, sub-disciplines or field of study
- (b) The book must be peer reviewed as a research output and supporting evidence provided in the book or from the publishers
- (c) The book must have an ISBN number
- (d) The length of the book must be a minimum of 60 pages, excluding references, bibliography, appendices, this being above the minimum norm of 49 pages proposed by the UNESCO definition of a book as a non-periodical literary publication consisting of 49 or more pages, covers excluded
- (e) The target audience of the book must be specialists in the relevant field

The following types of book publications are not subsidised;

- (a) Dissertations and theses
- (b) Text books and study guides
- (c) Inaugural speeches
- (d) Reports forming part of contract research
- (e) Works of fiction

Proceedings

- (a) The purpose of the proceedings must be to disseminate original research and new developments within specific disciplines, sub-disciplines or field of study
- (b) Articles accepted for publication in the proceedings must be peer reviewed
- (c) The proceedings must have an ISBN number
- (d) The target audience of the proceedings must be specialists in the relevant field

Where proceedings are published in an approved journal, the output will be treated as a journal article.

The following types of articles appearing in proceedings are not subsidised.

- (a) Correspondence to the editors
- (b) Abstracts or extended abstracts
- (c) Obituaries
- (d) Book reviews
- (e) News articles
- (f) Advertorials
- (g) Previously published material

5. Allocation of Units

Higher education institutions accrue units based on productivity within subsidised research output for the reporting year. However, the allocation of units is determined by the type of research output and the institutional affiliation of the authors.

Journals

A research article published in an approved journal will be subsidised as a single unit (1 unit), if all the authors are affiliated to the claiming institution. In the case where authors are affiliated with two or more institutions, the subsidy is shared between the claiming institutions.

Books

A book may be subsidised to a maximum of 5 units or portion thereof, based on the number of pages being claimed relative to the total number of pages of the book, if all the authors are affiliated to the claiming institution. A guideline of a minimum of 60 pages, and maximum of 300 pages will be allocated per unit or proportions and multiples thereof, if all the authors are affiliated to the claiming institution. However, where authors are affiliated with two or more institutions, the subsidy is shared between the claiming institutions.

Proceedings

Proceedings published as part of a peer reviewed non-periodical research output from conferences, congresses, symposia or other meetings where the primary purpose of disseminating research results will be allocated a maximum of one half a unit (0.5) if all the authors are affiliated to the claiming institution. In the case where authors are affiliated with two or more institutions, the subsidy is shared between the claiming institutions.

6. General

This policy entitled, Policy and Procedures for the Measurement of Research Output for Public Higher Education Institutions, 2003 will come into effect on 1 January 2005 for the 2004 research outputs.

7. Process and Procedures for the Submission and Evaluation

This section describes the processes and procedures to be followed by institutions in implementing this policy. Institutions must submit their research output annually for the preceding year (n-1) for each reporting year. All claims must be submitted under the signature of the Vice Chancellor, the Deputy Vice Chancellor of Research or the Dean/Director of Research.

Responsibilities of Institutions

To enhance the efficacy and efficiency of policy implementation, institutions are advised to:

- (a) be fully acquainted with the policy and procedures
- (b) ensure all information submitted to the Department of Education is accurate
- (c) submit all documents and information timeously
- (d) establish an internal institutional mechanism of screening outputs in terms of this policy prior to submission to the Department of Education, and
- (e) provide peer review reports from two independent assessors that will conduct a preliminary evaluation of submitted books as research output.

Late Submissions

Late submissions of research outputs for the year (n-2) may be considered for evaluation and subsidy. However, such submissions must be accompanied by a motivation from the Vice-Chancellor, Deputy Vice-Chancellor of Research or Dean/ Director of Research stating reasons for the late submission, such as late publication of the journal, book or proceedings by the publisher. Supporting evidence to the motivation will be an added advantage.

Late submissions for years prior to n-2 and or submissions without accompanying motivation will not be considered.

8. Procedures for Journal Research Output

Institution must submit to the Department of Education, on or before 15 May of each reporting year, audited subsidy claims for research output appearing in journals listed in the following indices:

- (a) The Sciences Citation Index of the Institute of Scientific Information (ISI)
- (b) The Social Sciences Citation Index of the ISI
- (c) The Arts and Humanities Citation Index of the ISI
- (d) The International Bibliography of Social Sciences (IBSS)
- (e) The Department of Education (DoE) List of Approved South African Journals

The Department of Education issues on its web site, <u>http://www.education.gov.za</u> on or before 31 January of each calendar year, an official list of journals for each of the above indices, for each reporting year (n). The list for approved South African journals for the output year 2004 (n-1) reported in 2005 (n) is included in this policy document as appendix 4.

The auditors' report must contain the following information:

- (a) Name of the institution
- (b) The reporting year (n)
- (c) The number of units being claimed for journal output, listed separately for each of the above indices, for the preceding year (n-1).
- (d) The total number of units being claimed for the year (n-1), and
- (e) if applicable, the number of units being claimed for journal output for the year (n-2), listed separately for each of the above indices, together with a motivation for the late submission. The auditor must also certify that such outputs have not previously being claimed.

Guidelines for the Auditors

- (a) Institutions may only utilize their registered external auditors to audit their research output.
- (b) The auditors' report must be issued on the auditors' official letterhead and addressed to the Director General of Education.
- (c) The auditor must express his or her opinion on the institution's subsidy claim for the research output.
- (d) The allocation of units is calculated according to the stipulations of the policy.
- (e) Fractions of units are expressed in decimal form and are rounded off to the first decimal place, for example 12,4.

Inclusion of Journal Titles

Institutions are responsible for proposing the inclusion of journal titles onto the ISI and IBSS indices. However, the Department undertakes to support the inclusion of South African journals onto these indices at the request of institutions. The Department thus does not administer the process for inclusion of journals onto the ISI and IBSS indices.

ISI

The processes and procedures for inclusion of journals onto the ISI indices are outlined by the ISI and available on the web site <u>http://www.isinet.com/isi/journals/index.html</u>. The site also includes an updated list of journals recognised by ISI.

IBSS

The processes and procedures for inclusion of journals onto the IBSS indices are outlined by the IBSS and available on the web site

http://www.lse.ac.uk/collections/IBSS/access/Default.htm. The site also includes an updated list of journals recognised by IBSS.

Approved South African Journals

South African journals which in the opinion of the institution comply with the criteria for inclusion may be proposed for inclusion. A minimum of three consecutive issues must be published for journals with a quarterly or higher publication frequency and

one issue for annual publications. The following information accompanied by a physical copy of the journal must be submitted to the Department of Education by 15 June for the journal to be considered for inclusion, effective the following calendar year;

- (a) Title, including translations if not published in English
- (b) The ISSN of the journal
- (c) Publisher and the publisher's address and contact details
- (d) Frequency of publication
- (e) Evidence that the journal has been published for the minimum prescribed cycle (the most recent 3 copies of 3 consecutive issues for a journal with a quarterly or higher publication frequency, 2 copies, for a journal published semi-annually, and 1 copy for a journal published annually)
- (f) Editorial policy, including evidence of the peer review process
- (g) Editorial board, the status of the members of the editorial board must be stated together with their institutional affiliations
- (h) In the case of electronic journals, the journal's internet Uniform Resource Locator (URL)
- (i) Indication of library holdings should be provided

Removal of Journals from Approved List of South African Journals

South African journals not fulfilling the criteria for approval will be removed from the approved list of South African journals. The Department of Education will periodically sample journals to assess if they continue to meet the criteria. However, institutions and individuals may submit a proposal for the removal of a journal. Proposals must be accompanied by a detailed motivation for the removal of such journals, in particular stating which criteria the journal ceases to fulfil. Such proposals must be submitted to the Department not later than 15 June every year. Removed journals may be re-submitted after a minimum of three consecutive issues have been published for the journals with a quarterly or higher publication frequency, two issues for semi-annual and one issue for annual journal publications, using the above procedure.

For purposes of transparency, the reasons for removal of journals will be made public.

Amendment of Journal Information

Institutions and editors are encouraged to inform the Department of Education of any change in the information about an approved South African journal. There is no deadline for submission of such information.

9. Procedures for Books and Proceedings

Institutions must submit to the Department of Education, on or before 15 May of each reporting year (n) research output appearing in books and proceedings for the previous year (n-1).

The following information must be provided to the Department of Education electronically as in the format of Appendix 1 and 2 respectively, and accompanied by a physical copy of the book or proceeding for the research output to be evaluated:

Books

- The name of the institution
- The title of the book
- The allocated book number on the spine of each book the institution must clearly and sequentially number and label all books. Numbers must be preceded by the letter B, for example B1, B2
- Editor(s) of the book if applicable
- The International Serial Book Number (ISBN)
- The publisher of the book
- Total number of pages in the book
- Title of the contribution being claimed in the book
- The first order Classification of Education Subject Matter (CESM) category of the contribution being claimed (see Appendix 3)
- Total number of pages of the contribution being claimed
- Names of author(s) of the contribution being claimed in the book
- Proportion of authors affiliated with the claiming institution relative to total number of authors in the contribution

In addition to the above information, each physical copy of the book must be accompanied by two independent assessments (to be carried out by peers of the authors) of the book and contribution as a research output. The independent assessors are advised to consider the criteria for recognition of a book as a research output. The report of the independent assessors must contain the following:

- Name of the institution
- Name and institutional affiliation of the independent assessor (the assessor should be a peer of the author and should not be affiliated to the claiming institution)
- The title of the book
- The authors of the contribution
- The assessment of the book and contribution as a research output, with reference to the provided criteria for evaluation of books

Proceedings

- The name of the institution
- The title of the proceedings
- The allocated proceedings number on the spine of each proceedings the institution must clearly sequentially number and label all proceedings books. Numbers must be preceded by the letter P, for example P1, P2
- Editor(s) of the proceedings if applicable
- The International Serial Book Number (ISBN)
- The publisher of the proceedings
- Evidence of peer review
- Title of the contribution being claimed in the proceedings

- The Classification of Education Subject Matter (CESM) category of the contribution being claimed
- Names of author(s) of the contribution being claimed in the book
- Proportion of authors from the institution relative to total number of authors in the contribution

Electronic versions of Appendix 1 and 2 are available on the web site of the Department of Education <u>http://www.education.gov.za</u>. Books and proceedings without the requisite information and supporting documentation will not be evaluated.

10. Correspondence

Institutions should forward submissions with the relevant documentation for the attention of:

The Director General <u>Attention</u>: The Director Higher Education Policy and Development Support Department of Education

Physical Address:

Room 534 Sol Plaatje House 123 Schoeman Street Pretoria. 0001

Postal Address:

Private Bag X 895 Pretoria. 0001

Telephone:	012 312 5252 012 312 5048
Facsimile	012 325 4419

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Physical Physical two copy independent received assessment tyes/no) (yes/no)	Evidence of peer review Book (yes/no) no.	Title of book	Title of Editor(s) if book applicable	*CESM Category	ISBN	Total Total no. of †Total n pages in of pages the bookclaimed	ė.	Title of contribution in the book	Title of Contribution in #Author(s) of \$Proportion number of the book contribution of authors backs	§Proportion of authors	For Doc Approved mumber of Units adore	of Units
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APPENDIX 1

GOVERNMENT GAZETTE, 10 OCTOBER 2003

APPENDIX 2

PROCEEDINGS

NAME OF INSTITUTION_

For Do	For Dok Use Only										Del	Dok Use Only
Physical copy received	o of ew	Proceedings	Title of the			Editor(s) if	Title of paper /	*CESM	#Author(s) of	∷ of	Units	
(yes/no)	(yes/no)	Book no.	proceeding	ISBN	Publisher	applicable	article	Category	contribution	authors	awarded	Comments
				-						1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
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*Indicates #Please un	the first order derline the au	*Indicates the first order CBSM category number, between 01 and 22 as outlined in appendix 3. #Please underline the author(s) affiliated with the claiming institution.	y number, be I with the cla	tween 0] iming in	and 22 as c stitution.	outlined in ap	pendix 3.					
§Please in the claimi	idicate proport ng institution o	SPlease indicate proportion of author(s) from the claiming institution relative to total number of a the claiming institution or 0.3 if one out of a total of three authors is from the claiming institution.	from the clai of a total of	ming ins three aut	titution rela lors is from	tive to total n the claiming	number of an institution.	uthors in the co	ontribution as a (SPlease indicate proportion of author(s) from the claiming institution relative to total number of authors in the contribution as a decimal fraction e.g. 1.0 if all authors are from the claiming institution or 0.3 if one out of a total of three authors is from the claiming institution.	g. 1.0 if all	authors are from
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APPENDIX 3

FIRST AND SECOND ORDER CLASSIFICATION OF EDUCATION SUBJECT MATTER (CESM) CODES

01. Agriculture and Renewable Natural Resources:

Agricultural Economics Agricultural Extension Agricultural Food Technology Animal Sciences Horticulture Plant Sciences Soil Sciences Fisheries Forestry Outdoor Recreation Wildlife Land Reclamation Renewable Natural Resources Other Agricultural and Renewable Resources

02. Architecture and Environmental Design:

Environmental Design Design and Planning Technology History of Environments Construction and Design Implementation Communication in Architecture and Environmental Design Structural Technology Environmental Technology Materials of Architecture and Environmental Design Management in Architecture and Environmental Design Professional Practices of Architecture and Environmental Design Planning Other Architecture and Environmental Design

03. Arts, Visual and Performing:

Dance Film as Art Music Theatre Arts Visual Arts Related Arts Arts Therapy Other Arts, Visual and Performing

04. Business, Commerce and Management Sciences:

Accounting

Administrative and Office Services Banking and Finance Business Data Systems Entrepreneurship Information Communications Insurance and Risk Management International Business Management Marketing Personnel Management and Administration Quantitative Methods Real Estate Other Business, Commerce and Management Sciences

05. Communication:

Advertising Code Systems **Communication Methodology** Communication Technology Cybernetics Film as Communication Governmental and State Communication Innovative Communication International Communication Instructional Communication Interpersonal Communication Journalism Mass Communication Organisational Communication Print Media **Professional Practices in Communication** Public Relations Radio Speech Communication **Special Communication** Television Other Communication

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06. Computer Science:

Applications in Computer Science and Data Processing Computer Operations and Operations Control Computer Hardware Systems Computer Hardware Information and Data Base Systems Numerical Computations Programming Languages Programming Systems Software Methodology Theory of Computation Educational, Societal, and Cultural Considerations Other Computer Science and Data Processing

07. Education:

Foundations of Education Educational Administration Systems of Education Teaching – Subject Matter Teaching – Programmes Teacher Training Counselling and Guidance Special Education Programmes Community Service Educational Development Educational Development Educational Evaluation and Research Educational Technology and Media Other Education

08. Engineering and Engineering Technology:

Aerospace and Aeronautical Engineering and Technology Agricultural Engineering and Technology Automotive Engineering and Technology **Bio-Engineering and Technology** Chemical Engineering and Technology Civil Engineering and Technology Computer Engineering and Technology **Electrical Engineering and Technology** Graphics and Drafting for Engineering and Technology **Engineering Mechanics Engineering Science** Environmental Engineering and Technology Geological Engineering Industrial Engineering and Technology Instrumentation Engineering and Technology Manufacturing Engineering and Technology Marine Engineering and Naval Architecture

Materials Engineering and Technology Mechanical Engineering and Technology Metallurgical Engineering and Technology Mining Engineering and Technology Nuclear Engineering and Technology Ocean Engineering Petroleum Engineering Surveying and Mapping Other Engineering and Engineering Technology

09. Health Care and Health Sciences:

Basic Health Care Sciences Clinical Health Sciences Rehabilitation and Therapy Pharmaceutical Science Emergency Services Hospital and Health Care Administration Public Health Veterinary Health Sciences General Perspectives on Health Care and Health Sciences Other Health Care and Health Sciences

10. Home Economics:

Clothing and Textiles Consumer Education Food and Nutrition Home Management Housing Human Development and Family Studies Institutional Housekeeping and Food Service Management Other Home Economics

11. Industrial Arts, Trades and Technology:

Construction Manufacturing Power Systems Product Service Graphic Arts Transportation Personal Service Other Industrial Arts, Trades and Technology

12. Languages, Linguistics and Literature:

Linguistics Literary Studies The study and uses of the Afrikaans Language The study and uses of the English Language Arabic Artificial Languages Chinese Dutch Finnish French German Greek Hebrew Italian Japanese Latin Native American Norwegian Persian Portuguese Russian Sanskrit Slavic Languages South-east Asian Languages Spanish Swedish Yiddish Herero Kwangali Kwanyama Lozi Mbukushu Nama IsiNdebele Ndonga San (Bushman) Shona SeSotho SeSotho Sa Leboa SiSwati XiTsonga SeTswana TshiVenda IsiXhosa IsiZulu Other African Languages Gujerati Hindi

С.C.

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Tamil Telugu Urdu Other South Asian Languages The study and uses of Language Other Language, Linguistics, and Literature

13. Law:

International Aspects of Law Perspectives on Law Mercantile Law Private Law Public Law Formal Law The Law relating to Black Persons in South Africa Legal Profession Other Law

14. Libraries and Museums:

Libraries and Museums in Perspective Physical Records Information Library and Museum users Library and Museum Services and Functions Administration of Libraries and Museums Facilities for Libraries and Museums Equipment for Libraries and Museums Other Libraries and Museums

15. Life Sciences and Physical Sciences:

Astronomy Atmospheric Sciences Biological Sciences Chemistry Geology Oceanology Physics General Earth-Space Science

Other Life Sciences and Physical Sciences

16. Mathematical Sciences:

Mathematical Sciences, General Perspective Logic, sets, and Foundations Arithmetic and Algebra Classical Analysis Functional Analysis Geometry and Topology Probability Statistics Numerical Analysis and Approximation Theory Classical Applied Mathematics Applications of Mathematics User-oriented Mathematics Other Mathematical Sciences

17. Military Sciences:

Military History Military Organisation Military Management and Leadership National Security and Defence Military Law International Military Systems **Military Communications** Field Training, Camps and Cruises Drill, Commands and Ceremonies Weaponry and Marksmanship Military First Aid and Health Education Air Force Army Marine Corps Navy Other Military Sciences

18. Philosophy, Religion and Theology:

Systematic Philosophy History of Philosophy Main Philosophical Currents and Trends Science of Religion Buddhism Christianity Hinduism Islam Judaism Primal Religions Other Philosophy, Religion and Theology

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19. Physical Education, Health Education and Leisure:

Physical Education Kinesiology Sport Dance Health Education Driver and Safety Education Leisure Studies Other Physical Education, Health Education and Leisure

20. Psychology:

Foundations of Psychology Biopsychology Environmental Psychology Experimental Psychology Psychology Applied to Health Psychology Applied to Education Psychology Applied to Industry, Government and other Organisations Psychometrics Social Psychology Developmental Psychology Cognitive Psychology Other Psychology

21. Public Administration and Social Services:

Public Administration Public Works Safety and Correctional Services Social Work Public Recreation Other Public Administration and Social Services

22. Social Sciences and Social Studies:

Anthropology Economics Geography History Political Science Sociology Other Social Sciences and Social Studies

		C		Approved South African Journals	APPENDIX 4	
E	TUTLE	ISSN Output for		2004 (n-1), assessed in the reporting year 2005 (n)		
<	Acta Academica	0587-2405	Tri-annual		PREVIOUS JOURNAL TITLE	
V	Acta Classica	0065-1141	Annual	murray@hbib.uovs.ac.za Classical Association of South Africa. Department Of Greek		
	Acta Criminologica: South African 1012-8093 Journal of Criminologica	1012-8093	Tri-annual	and Latin Studies, RAU, P.O. Box 524, Auckland Park, 2006, South Africa Fax: 011-489 2735,email: wih@hw.nu.ac.za Oriminological Society of South Africa P.O. Dov. 2002		
		0065-1346	Annual	Sumryside, 0132, South Africa Faculty of Law, UCT, Jura&Company, P.O.Box 14363, Cane		
		1022-6486	Annual	Town, 8000 Department of Ancient Languages, University of Pretoria,		
< 2. 2. 2. 2. 2.	fournal for the velopment f vir die Fiesicse wetenskappe	1023-0564	Irregular	Treevist, vov.c, South Africa University of the Free State, Department, Of Quantity Surveying and Construction Management, P.O. Box 339, Bloemfontein, 9300, South Africa		
- L-		0587-2405 1015-4823	Semiannual	Redaksiekantoor Universiteit van die Vrystaat, P.O. Box 339, Bloemfontein, 9300, South Africa, email: tigdt@ns.uovs ac 73		
1.5				Southern African Association of Departments and Schools of Public Administration and Development (ASSADPAM)) c/o Prof. H.F. Wissink, P.E. Technikon, Private Bag X 6011, Port Elizabeth. 6000. South A fires		
	nance Journal	0304-615x 1605-9786	Semiannual Tri-amma1	University of South Africa, Unisa Press, P.O. Box 392 Pretoria		
143 1			3. C.C.		and of she Morel M.	
6 6 P	African Journal for Physical, Health Education, Recreation and Dance	1117-4315	Semiannual	ane, 0600	mission man la comunication	
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GOVERNMENT GAZETTE, 10 OCTOBER 2003

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lova: UNISA Musicologica	C3 1 0-6/50	Annual	Department. Of Musicology, UNISA, P.O.Box 392, Pretoria, 0003. South Africa	
Cabo	0379-4830	Amual	Historical Society of Cape Town, P.O.Box 157, Newlands, 7735, South Africa	
Cardiovascular Journal of South Africa	1015-9657	5 x p.a.	South African Heart Association, P.O.Box 1013, Durbanville, 7551, South Africa, Tel: 021 976 8129; Fax 021 976 8984 http://www.cvjsa.co.za; mail: andries.medcon@freemail also co.za	
Child Abuse Research in South Africa: Journal of the South African Professional Society on the Abuse of Children	1562-1383	Semiannual	South African Professional Society on the Abuse of Children, P.O.Box 31334, Totiusdal, 0134, South Africa, Tel: 012 332 0918; Fax 012 332 0161	
-	0259-0069	Semiannual	Southern African Communication Association, Department of Communication, RAU, PO. Box 524 Auckland Park, South Africa Tel: 011 489 2139,email: 110c@1w.eau.ac.za	
rican on Theory aanse sieteorie	0250-0167	Semiannual	Department of Communication, University of South Africa, P.O. Box 392 Pretoria 0003 South Africa, email: fouripj@unisa.ac.za	
Journal for A Journal of South- l and Media Studies	1013-0950 0256-0046	Amual Amual	University of Free State, P.O. Box 301, Bloemfontein, 9300, Tel: 051-401 6423 Critical Arts Group Graduate Programme in Cultural & Media Studies. University of Natal Durhan 4041 South A frice amoil.	
Curationis: Research Journal of the 0379-8577 Democratic Nursing Organisation of South Africa	0379-8577	Quarterly	govens@mtb.und.ac.za, http://www.und.ac.za/und Democratic Nursing Organisation of South Africa (DENOSA), P.O.Box 1280 Pretoria, 0001, South Africa	
Current Allergy & Clinical I Immunology Current Writing	1609-3607 1013-929X	Quarterly Semiannual	Allergy Society of South Africa, P.O.Box 88, Observatory 7935, South Africa, Tel: 021 447 9019 Fax: 448 0846, email: allsa@gen.co.za, http://www.allergysa.org	
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Durban Natural Sciences Museum, P.O.Box 4085, Durban 4000, South Africa, email: belinde@presu.durban.gov.za	Institute for Afro-Hellenic Studies, P.O.Box 91172, Auckland Park, 2006 South Africa	English Academy of Southern Africa P.O. Box 124 Wits 2050 South Africa	Ensovoort Society, Wonderboomport 0033, S.A	Institute of Media Studies In Southern Africa. P.O. Box 20603	Noordbrug, 2522, Potchefstroom, South Africa Tel: 082 453	4004 Fax: 018 290 5019, email: imssa@mweb.co.za;	http://www.puk.ac.za/komwww/index/html	Ergonomics Society of South Africa Department of Human	Kinetics and Ergonomics, Rhodes University, P.O.Box 94,	Grahamstown, 6140 South Africa	National Botanical Institute Private Bag X 101, Pretoria, 0001, South Africa	Association for French Studies in Southern Africa Denartment	of French, RAU. P.O.Box 524, Auckland Park, 2006, South	Africa	UNISA, P.O. Box 392, Pretoria, 0003, South Africa,	http://www.legalhistory.org.za/html/Journal Editorial.htm	MEDPHARM Publications (Pty) Ltd) P.O. Box 14804,	Lyttleton 0157 South Africa, email: douw@medpharm.co.za	Department of Nursing, RAU, P.O. Box 524, Auckland Park, 2006, South Africa	Historical Society of South Africa. Department of History &	Cultural History, University of Pretoria, 0002. South Africa		Paculty of Theoloov I Iniversity of Destoria AMO Destaria	South Africa	Department of Visual Arts, University of Pretoria, Pretoria 0002,	South Africa	Reformed Theological Society of South Africa, Bureau for	Scholarly Journals Private Bag X 6001, 2520, Potschestroom,	South Africa, Tel: 018 299 4081, email:	bwtscl@puknet.puk.ac.za	
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Industrial Law Journal, Center for Applied Legal Studies, University of Witswatersrand, Johannesburg 2000, Published by Juta Law, P.O. Box 24299, Lansdowne, 7779 Investment Society of Southern Africa, P O Box 131, Ferndale 2160, South Africa Association of Professional Italianists (API) c/o Department of modern and classical languages and Literaratures (Italian Section), Beattie Building, UCT, Rondebosch, 7700, South Africa, Tel: 021 650 3058 Department of History, University of the Free State, P.O. Box 2320, Bloemfontein, 9300, South Africa Bureau for Economic Research, University of Stellenbosch Faculty of Law, University of the Free State, Bloemfontein, 9300, South Africa South Africa Bureau for Language Teaching, Language Service, RAU, PO. Box 534, Auckland Park, 2006, South Africa, Tel: 011 489 2790, mlaw@lw.rau.ac.za	UNISA, P.O. Box 392, Pretoria, 0003, South Africa Association for the Study of Religion in Southern Africa, Association for the Study of Religion in Southern Africa, Association for the Study of Religion in Southern Africa, Bondebosch 7701, South Africa Butterworths Publishers, 215 North Ridge Road, Morningside, Durban. Tel: 031 268 3264 School of Education, Training and Development, University of Natal, Private Bag X01, Scottsville, 3209, South Africa, <u>Harlev@nu.ac.za</u> Department of Educational Foundations, University of Venda, Private Bag X5050, Thohoyandou 0950, South Africa Tel: (015) 962 8324/ 8406 Fax: (051) 962 8643 email: biyakwazi@caddy.univen.ac.za
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 53 Industrial Law Journal including Industrial Law Reports 54 Investment Analysts 55 Italian Studies in Southern Africa/Studi d'Italianistica 56 Iournal for Contemporary History/Joernaal vir die Eietydse 57 Journal for Studies in Economics 58 Journal for studies in Economics 58 Journal for Juridical Science/Tydskrif vir Regswetenstap 59 Journal for Language 50 Journal for Semitics/Tydskrif vir Reaching/Tydskrif vir Teaching/Tydskrif vir Semitical 	the Study of Religion ontemporary Roman Tydskrif vir e Romein-Hollandse ducation ducation

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SA Medical Association Health and Medical Publishing, Private Bag X1, Pinelands, 7430, South Africa. Tel: 021-530 6520 Fax: 021-531 4126, email: publishing@samedical.org	Energy Research Institute, UCT, Private Bag, Rondebosch, 7701, South Africa Tel: 021 650 3894/2 Fax: 021 686 4838, email: rdrummond@eng.uct.ac.za, http://www.eri.uct.ac.za/eri.html	South African Association for Family Ecology and Consumer Sciences, P.O.Box 35269, Menlo Park, 0102, South Africa, http://www.up.ac.za/academic/acadorgs/saafccs	SAVAL. South African Society for General Literary Studies, UNISA, Theory of Literature Department, P.O.Box 392, Pretoria, 000,1 South Africa	SAICE/SAISI, Post Net Suit, 81 P/Bag X65, Halfway House, 1685, South Africa Tel: (011) 805 5947/8	SAARMSTE, P.O. Box 42, Kloof, 3640, South Africa	South African Association for Public Administration and Management (SAAPAM) P.O. Box 14257, Hatfield 0028, South Africa Tel; 012 362 7473 Fax: 012 362 7475, sanoam@safbam.org.za	Juta & Co, P.O.Box 24299, Kenwyn, 7779, South Africa	Mine Ventilation Society of South Africa, P.O. Box 93480, Yeoville 2143 South Africa, email: minevent@global.co.za, http://www.home.global.co.za/~minevent	Medical Association of South Africa for SADA, Private Bag x 1, Pinelands 7430 South Africa, Tel: 021 531 3081 Fax: 021 531 4126 email: Publishing@samedical.org; http://www.samedical.org
Irregular	Quarterly	Semiannual	Quarterly	Quarterly	Annual	Quarterly	Quarterly	Quarterly	Monthly
0038-2469	1021-447X	0378-5254	0256-4718	1021-2018	1028-8457	0036-0767	0257-7747	0368-3206	1029-3206
	66 Journal of Bnergy in Southern Africa	Journal of Family Ecology and Consumer Sciences/Tydskrif vir Gesinsekelogie en Verbruikerswetenskappe		69 Journal of the SA Institution of Civil Engineering/ Joernal van die SA Instituut van siviele Ingenieurswese	Journal of The Southern African Association for Research in Mathematics and Science Education	/1 Journal of Public Administration	Journal of South African Law/Tydskrif vir die Suid- Afrikaanse Reg		74 Journal of South African Dental Association

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Journal of Theology for Southern Africa, c/o Department of Religious Studies, UCT, Rondebosch, 7701, South Africa, Tel: 021 650 3457 Fax. 680 7575	Department of History, UNISA, P.O. Box 392, Pretoria, 0003, South A frica	South African National Parks of S.A., P.O.Box 787, Pretoria, 0001. South Africa	urnals, Private Bag x 6001, outh Africa	tesearch, UWC, Private Bag X17, frica	Butterworths Publishers, 215 North Ridge Road, Morningside, Durban South A frices	Bureau of the Woordeboek van die Afrikaanse Taal, P.O.Box 245, Stellenbosch, 7599, South Africa, Tel: 021 887 3113, Fax: 021 883 9492, email: wort@wort en across	University of South Africa, Unisa Press, P.O. Box 392, Pretoria, 0003	Literator, Private Bag X 6001, 2520, Potschestroom, South Africa, email: bwtsci@muknet mut ac 2a	S.A. Institute for Business Scientists, Department of Business Management, University of Stellenbosch, Private Bag X 1,	Atrica, email: .za).Box 843 Wellington, 7654 South	Medical Technology News, P.O.Box 843 Wellington 7654, South A frice	
	Department of History, UNISA, P.O.	South African National Parks of S.A., 0001. South Africa	Bureau for Scholarly Journals, Private Bag x 6001, Potschestroom, 2520, South Africa	Institute for Historical Research, UWC, Private Bag X17, Bellville, 7535. South Africa	Butterworths Publishers, 215 North Ri Durhan South A frice	Bureau of the Woordeboek van die Afri 245, Stellenbosch, 7599, South Africa, 7 021 883 9492, ernail-wat@wet so.or.	iversity of South Africa, Unisa Pres	Literator, Private Bag X 6001, 2520, Pots Africa, email: bwtsci@muknet nuk ac za	S.A. Institute for Business Scientists, Department of Busi Management, University of Stellenbosch, Private Bag X	Mauciand, 7002, South Africa, email: jnmvdb@maties.sun.ac.za		Marine Ornithology, P.O.Box 843 Wellington, 7654 South	Medical Technology News, P.O.Box 843 V	8 Walter Place, Waterval Park, Mayville, 4091, South Africa
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P.O. Box 35704, Menio Park, 0102, South Africa, email: kritzjnj@unisa.ac.za	National Museum, P.O. Box 266, Bloemfontein 9300, South Africa, email: library@nasmus.co.za	NTSSA, Department of Ancient Studies, University of Stellenbosch, 7602, Matieland, South Africa, http://www.sun.ac.za/ss/ionums/s-o-o-t	Department of History, University of the North West, Private Bag X5 OR X 2046, Mrnabatho, 2735, South Africa, Tel: 018 389 2191, email: HHRS@nuibo mixtured an an	NGTT, Fakulteit Teologie, University of Stellenbosch, Private Bag XI. Matieland. 7602. South Africa	Faculty of Law, UPE, P.O.Box 1600, Port Elizabeth, 6000, South Africa. Tel: 041 504 2199/0. Fay: 041 504 2818	Safety First, P.O. Box 14402, Club view, 0014, South Africa, Tel: 012 654 8349	Old Testament Society of South Africa, Department of Ancient Languages, University of Pretoria, 0002, South Africa, Tel: 012 420 2685, bothap@libarts.un.ac.za	Operations Research Society of South Africa, P O Box 610, Bellville, 7535, South Africa	Bernard Price Institute for Palacontological Research, University of the Witswaterstand, Private Bao X1, 050, South A 64:02	Department of Didactics. Faculty of Education, University of Stellebosch, Private Bag X1. Matieland. 7599. Tel: 021 808 2284. Email: Er@sun ac.za.	Faculty of Education, University of Pretoria, 0002, South Africa, Tel: 012 420 4732; Fax: 012 420 3003; Detrebect@nostino.un.ac.za	Department of Philosophy, Rhodes University, PO. Box 94, Grahamstown. 6140. South A frica	South African Society for Greek Philosophy and Humanitics, University of Pretoria, 0002, email: jdgerick@postino.up.ac.za
Tri-ammal	Irregular	Semiannual	Semiannual	Quarterly	Semiannual	Bimonthly	Tri-annual	Semiannual	Annual	Semiannual	Quarterly	Tri-annual	Semiannual
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Missionalia: Journal of the Southern African Missiological Society/Tydskrif van die Suider- Afrikaanse Werkgemeenskap vir Sendingwetenskap	Navorsinge van die Nasionale Museum Bloemfontein	Neotestamentica: Journal of the New Testament Society of South Africa (NTSSA)	New Contree	NGTT: Ned Geref Teologiese Tydskrif	Obiter	Occupational Health Southern Africa	Old Testament Essays (New Series): Journal of the Old Testament of South Africa	Orion: Operations Research in South Africa	Palacontologia Africana	Per Linguam: A Journal of Language Learning/ Tydskrif vir Taalaanleer	100 Perspectives in Education	101 Philosophical Papers	102 Phronimon: Journal of the South African Society for Greek Philosophy and the Humanities

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101	103 Politicia				
		0256-8845	Tri-annual	Dept of Public Administration, UNISA, P.O. Box 392, Pretoria, 0003, South Africa, Tel: 012 429 6512 Fax: 012 420 2221	
104	104 Practical Theology in South Africa/Praktiese Teologie in Suid- Afrika	1010-8017	Semiannual	enail: kotzedj@unisa.ac.za Practical Theology in South Africa, P.O.Box, 74011, Lynnwoodrif, 0040, South Africa, P.O.Box, 74011,	
105	Pythagoras: Journal of the Association for Mathematics Education of South Africa	1012-2344	Tri-annual	Association of Mathematics Education of South Africa (AMESA) P O Box 54, Wits, 2050	
107	Psycho-analytic Psychotherapy in South Africa 107 Quaestiones Mathematica	1023-0548	Quarterly	P.O. Box 16115 Vlaeberg 8018 South Africa; http://www.psa.org.za	
108		100/3006	Quarterly	NISC, P.O. Box 377 Grahamstown, 6140, South Africa, Tel: 046 622 9698, Fax: 046 622 9550; info@nisc.co.za; http://www.nisc.co.za/Journals/Mathe%2010cm.co.za;	
109	oint Surgery	1024-6274	Quarterly Diorfactu	Science Africa for the South African Institution of Mechanical Engineers, P.O. Box 40221, Arcadia, 0007, South Africa; email: etnakin@mweb.co.za	
110		1026-9185	Curristing Control of	Carmon Medical Media Publication, P.O. Box 2433, Randburg, 2125 South Africa; Tel: 011 791 2615 Fax: 011 791 2618; email: crim@iafrica.com	
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117 Scholia: Natal Studies in Antiquity [1018-9017		International Journal of igion and Theology in Africa	120 Scrutiny 2	121 Shakespeare in Southern Africa;	of Southern Africa	122 Slavic Almanac	irk:	A Professional Journal for the Social Worker/n Vaktydskrif vir die Maatskaplike Werker	124 Social Work Practitioner-	Researcher/Maatskaplikewerk Navorser-Praktisyn	125 Society in Transition: Journal of	the South African Sociological Association	126 South African Actuarial Journal	127 South African Computer Journal	128 South African Family Practice		129 South African Journal for Research 0379-9069	in Sport and Physical	Education/Suid-Afrikaanse	Tydskrif vir Navorsing Sport,	Liggamlike Opvoedkunde en Ontspanning	

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South African Academy for Science and Arts, P.O. Box 538, Pretoria, 0001, Tel: 012 328 5082, Fax: 012 328 5091	South African Society for Agricultural Extension (SASAE), Department of Agriculture, Economics, Extensions and Rural, University of Pretoria, 0002, South Africa, Tel; 012 420 3246	Art Historical Work Group of South Africa, Department of Art History and Fine Arts, UNISA, P.O. Box 392, Pretoria, 0003	Graduate School of Business, University of Stellenbosch, P.O. Box 610, Bellville, 7535, South Africa Health and Medical Publishing Groin, Private Box VI	Punetands, 7430, South Africa, Tei: 021 530 6520 Fax: 021 531 4126; email: publishing@samedical.org; http://www.samedical.org South African Society for Cultural History, b. C. A.	Hattield, 0028, South Africa South African Speech-Language-Hearing Association, P.O. Box 91042, Auckland Park, 2006, Snuth A frice, T-1, 014	Fax: 011 675 3785; publications@aslha.co.za Department of Criminal Justice, Faculty of Law, University of Cape Town, Rondebosch 7701. Email: Iburchel@law.uct.ac.za Faculty of Economic and Manaoement Sci.	Pretoria, 0001 South Africa, Tel: 012 420 3453 Fax: 012 362 5207, email: slaing@hakuna.up.ac.za South African Journal of Economics, P.O. Box 73354 Lymwood Ridge 0040 South Africa, Tel: 012 420 3575 Fax.	Science Africa, P.O. Box 40221, Arcadia, 0007, South Africa, Fax: 012 809 0852; email: ernakin@mweb.co.za	South African Society for Ecology & Viticulture, P.O. Box 2029, Dennesig, 7601, Stellenbosch, South Africa
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130 South African Journal for Science and Technology/Suid-Afrikaanse Tydskrif Natuurwetenskap en Tegnologie	Agricultural Extension/Suid- Agricultural Extension/Suid- Afrikaanse Tydskrif vir landbouvoorligting 132 South African Journal of Ar-	iness	l Journal of Clinical	of Cultural se Tydskrif		Justice Justice 138 South African Journal of Economic 1015-8812 and Management Sciences	139 South African Journal of Economics/Suid-Afrikaanse Tydskrif vir Ekonomie 140 South African Journal of	se Enology	

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