HIGHER EDUCATION ACT 101, 1997

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

MINISTRY OF EDUCATION

October 2003
GOVERNMENT NOTICE
DEPARTMENT OF EDUCATION
NO. R 1467 OF 14 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, sub-discipline 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 subsidised.
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 other 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, http://www.education.gov.za 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 been 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 http://www.isinet.com/isi/journals/index.html. 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 [http://www.education.gov.za](http://www.education.gov.za). 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  
**Attention:** 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
# APPENDIX 1

## BOOKS

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<tr>
<th>Physical copy received (yes/no)</th>
<th>Evidence of two independent assessment (yes/no)</th>
<th>Evidence of peer review (yes/no)</th>
<th>Book no.</th>
<th>Title of book</th>
<th>Editor(s) if applicable</th>
<th>*CESM Category</th>
<th>ISBN</th>
<th>Total no. of pages in the book</th>
<th>Total no. of pages claimed</th>
<th>Title of contribution in the book</th>
<th>#Author(s) of contribution</th>
<th>$Proportion of authors</th>
<th>Approved number of pages</th>
<th>Units awarded</th>
<th>Comments</th>
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*Indicates the first order CESM category number between 01 and 22 as outlined in appendix 3.
†Indicates number of pages being claimed and page numbers e.g. (10) pages 1-10 or (12) pages 66-78 (not counting the reference/ bibliography pages)
#Please underline author(s) affiliated with the claiming institution, e.g. Adam H, Slabbert F and Moodley K.
§Please 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.
## APPENDIX 2

### PROCEEDINGS

**NAME OF INSTITUTION**

<table>
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<tr>
<th>Physical copy received (yes/no)</th>
<th>Evidence of peer review (yes/no)</th>
<th>Proceedings Book no.</th>
<th>Title of the proceeding</th>
<th>ISBN</th>
<th>Publisher</th>
<th>Editor(s) if applicable</th>
<th>Title of paper / article</th>
<th>*CESM Category</th>
<th>#Author(s) of contribution</th>
<th>$Proportion of authors</th>
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*Indicates the first order CESM category number, between 01 and 22 as outlined in appendix 3.

#Please underline the author(s) affiliated with the claiming institution.

§Please 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.
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
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 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
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
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
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<td>Acta Classica</td>
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<td>Acta Patristica et Byzantina</td>
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<td>Historia: Journal of the Historical Society of South Africa/ Joernaal van die Historiese Genootskap van Suid Afrika</td>
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<td>Department of Didactics. Faculty of Education, University of Stellenbosch, Private Bag X1. Matieland. 7599. Tel: 021 808 2284. Email: <a href="mailto:Er@sun.ac.za">Er@sun.ac.za</a>.</td>
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<td>Faculty of Education, University of Pretoria, 0002, South Africa, Tel: 012 420 4732; Fax: 012 420 3003; <a href="mailto:perspect@postino.up.ac.za">perspect@postino.up.ac.za</a></td>
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<td>0038-2221</td>
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<td>South African Institute of Electrical Engineers, P O Box 93541, Yeoville, 2143, South Africa, Tel: (011) 487 3003 Fax: (011) 487 3002 e-mail: <a href="mailto:geverg@saiee.org.za">geverg@saiee.org.za</a></td>
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<td>0041-476X</td>
<td>Semiannual</td>
<td>Tydskrif vir Letterkunde Association, University of Pretoria, HSB 15-28 Humanities Building, Pretoria, 0002</td>
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<td>Tydskrif vir Nederland's en Afrikaans</td>
<td>1022-6966</td>
<td>Semiannual</td>
<td>Suider-Afrikaanse Vereniging van Nederlandistiek, S.Huigen, Department Afrikaans and Nedelands, University of Stellenbosch, 7600, South Africa</td>
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<td>Verbum et Ecclessia</td>
<td>1609-9982</td>
<td>Semiannual</td>
<td>Fakulteit Teologie, Universiteit van Pretoria, 0002, Pretoria, South Africa, Tel: 012 420 2358, Fax: 012 420 4016, email:<a href="mailto:otnt@ccnet.up.ac.za">otnt@ccnet.up.ac.za</a></td>
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