

# COUNCIL ON HIGHER EDUCATION

Room 743  
Department of Education  
123 Schoeman Street  
Pretoria  
0002

Tel: (012) 312 5167  
Fax: (012) 321 2004  
E-mail: [che.ceo@educ.pwv.gov.za](mailto:che.ceo@educ.pwv.gov.za)

The Registrar  
University of Port Elizabeth  
P O Box 1600  
**PORT ELIZABETH**  
6000

NAME	DATE
Mr J Coetsee	07/01/01
Mrs J Bishop	08/01/04
	07/01/11

Noted.  
Emailed to  
Deans

Dear Mr Coetsee

## REQUESTS REGARDING NEW LEARNING PROGRAMMES

At its meetings of 12 and 22 October 1999, the CHE Programme Committee agreed that applications of universities for the introduction of new learning programmes would be considered not on the basis of Report 116 (96/02) only, but that current policy would also feed into this process. Report 116 (96/02) would therefore be interpreted in a flexible manner to also meet both policy (i.e. White Paper 3) and SAQA requirements.

It was agreed that, apart from Report 116 (96/02), learning programmes should also be in line with the following criteria:

Learning programmes should comprise

- A whole qualification (120 credits);
- Academic coherence;
- Multiple entry and exit points;
- Uniform designations; and
- Progression.

On postgraduate level

- Regional cooperation should be sought; and
- Masters learning programmes should comprise a research component.

Based on the above criteria, I have pleasure to advise that the following requests for the introduction of new learning programmes were approved:

- Diploma in Psychiatric Nursing. 18700 Hea
- Diploma in Nephrology Nursing. 60600 Hea
- Bachelor of Youth Work, with the proviso that the degree be BA in Youth Work. 61302
- B Sc Hons in Geographical Information Systems. 21517 Sc.

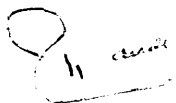
- Advanced Diploma in Choral Conducting. ~~10/100~~ 4/1

The following requests were referred back for further consideration as indicated below:

- Certificate in Basic Construction. The Department of Education currently does not subsidise bridging programmes.
- Diploma in General Nursing Science. The University is requested to (i) keep the application in abeyance pending an agreement on nursing college education and transfer of funds; and (ii) ensure that students meet the entrance requirement for the B Cur degree.
- M Mus in Choral Conducting. The University is requested to provide additional information on (i) the theoretical scientific underpinning of the proposed learning programme; and (ii) national and international provision in choral conducting.

Should you have any queries, please forward it in writing to Ms N Mohamed, Director: Higher Education – Policy and Development Support, Private Bag X895, Pretoria, 0001.

Kind regards



Dr S Badat  
Chief Executive Officer

12517

HOU OOR	1 Nov 99
Datum :	
Naam :	B. Bishop

10/9/99

**PER COURIER SERVICE**

Ref: 07/01/01

Enquiries: Mrs J Bishop  
Tel: (041) 504 2313

Director-General (Attention Dr RM Naude)  
Department of Education: Directorate Higher Education  
123 Schoeman Street  
PRETORIA  
0001

7 September 1999

Dear Dr Naude

**INTRODUCTION OF NEW SPECIALISATIONS WITHIN APPROVED POSTGRADUATE PROGRAMMES**

In your latest format instructions for applications regarding new learning programmes (dated February 1999) it is stated that the introduction of new fields of specialisation within approved postgraduate programmes does not require Ministerial approval, but that the Minister must be informed thereof (par. 2.2 of document refers)

However, in your email to me of 12 July 1999 you made the following statement:

*"The question is whether the specialisation should be regarded as an addition to the existing learning programme without changing the main focus of the qualification or whether it constitutes a new qualification with a new focus. In case of the later and any uncertainty on the former, it should be submitted for approval.*

*I hope I have clarified and not mystified this issue!"*

I am thus sending you the following in the required "application" format. Please process according to your discretion. It appears to us from your comment that the two M degree specialisations may need Ministerial approval and that the B Hons degree specialisations could be submitted for notification only.

- BA Hons - with endorsement Group Dynamics S/720/99
- M Mus - with endorsement Choral Conducting S/719/99
- BSc Hons - with endorsement Geographical Information Systems S/695/99
- LL M - with endorsement Tourism Law (Postgraduate Diploma as exit qualification) S/687/99

Yours sincerely



Mrs J Bishop  
For REGISTRAR

## UNIVERSITY OF PORT ELIZABETH

### APPLICATION FOR THE MINISTER'S CONCURRENCE FOR THE INTRODUCTION OF POSTGRADUATE SPECIALIZATION IN GEOGRAPHICAL INFORMATION SYSTEMS AT BSc HONOURS LEVEL.

#### 1. DATE OF APPROVAL OF COUNCIL

Approved by Executive Committee of Council on 31 August 1 999. To be ratified by Council on 8 October 1 999.

The Minister's approval is sought for the introduction of training in Geographical Information Systems at BSc Honours level within the Board of the Faculty of Science with effect from the 2000 academic year.

The Geographical Information Systems component will comprise the equivalent of a one-year post-BSc degree. No further staff is needed for the proposed postgraduate programme.

#### 2. MOTIVATION

2.1. The University of Port Elizabeth currently presents Geographical Information Systems modules at undergraduate and postgraduate levels as components of the BSc/BA and BSc/BA Honours degrees. It has become evident that there was a demand for a fully fledged and structured postgraduate training programme in Geographical Information Systems. The proposed programme therefore represents a logical extension of the existing courses offered at the University of Port Elizabeth.

2.2. The White Paper on Science and Technology indicates that the future development of South African economy will in part depend upon the acquisition of technological skills, including those related to the compilation and manipulation of spatially referenced data sets.

The relevance of this aid to development has been demonstrated in the Department of Geography by the application of Geographical Information Systems analysis to such issues as the provision of policing and health care in the Eastern Cape in the government sphere and mineral exploration and the expansion of the telecommunications industry in the private sphere.

2.3. The integrative, multi-disciplinary approach to Geographical Information Systems research and training offers opportunities to contribute significantly the principles of the Reconstruction and Development Programme, notably in the Eastern Cape. As such it will contribute to the creation of a cadre of suitably qualified personnel to tackle the problems of the province.

2.4. Co-operation with the University of Stellenbosch is already in place and it is anticipated that other institutions in the Eastern Cape will become involved. The International Institute for Aerospace Survey and Earth Sciences (ITC) and Wageningen Agricultural University in the Netherlands will also provide support.

#### 3. PROPOSED OFFICIAL DESIGNATION

BSc Honours with endorsement Geographical Information Systems

#### 4. EFFECT OF CHANGES ON PROGRAMMES

Not applicable for this request.

## 5. ADMISSION REQUIREMENTS

BSc Honours: A BSc/BA/BTech degree in Earth or Environmental Sciences or Cartography or any suitable tertiary three-year qualification.

## 6. DURATION AND NUMBER OF CREDITS

BSc Honours: At least two successive semesters.

Number of credits: 1, 0 (NQF 120)

## 7. CURRICULUM AND SYLLABUS

### **GIS411 Cartography (30 credits)**

Development of cartography  
 Map making  
 Cartographic methods  
 Surveying  
 Map projections  
 Manipulation and representation of spatial data  
 Thematic maps  
 Computer aided cartography

### **GIS412 Remote sensing (30 credits)**

Remote sensing systems  
 Photogrammetry  
 Air photograph interpretation  
 Satellite data  
 Global positioning systems

### **GIS413 Geographical Information Systems (30 credits)**

Spatial collection of data  
 Georeferenced data transformation  
 Management and manipulation of data,  
 National, provincial and local data systems  
 GIS implementation

### **GIS414 Project (30 credits)**

Research project based on the application of cartography, remote sensing or geographical information systems.

## 8. NATURE OF EVALUATION

BSc Honours: Examinations and treatise are externally moderated.

## 9. SYSTEM OF EXTERNAL EVALUATION

All final-year BSc and BSc Honours examinations are moderated externally.

**10. YEAR OF INTRODUCTION**

2000

**11. ENVISAGED STUDENT ENROLMENT FOR FIRST FIVE YEARS**

A strong interest in Geographical Information Systems at postgraduate level has been expressed by both University of Port Elizabeth undergraduate students as well as students from other universities. It is expected that initially six students per year will enrol.

**12. QUALIFICATIONS AND RESEARCH ACHIEVEMENTS OF PERSONNEL INVOLVED IN THE PROPOSED PROGRAMME**

Prof AJ Christopher PhD, Dip Photogrammetry  
Dr PJ Rootman DPhil  
Mr AS Davids MSc

**13. IMPLICATIONS IN TERMS OF PERSONNEL, EQUIPMENT AND FINANCIAL LIABILITIES**

The existing infrastructure of the Department of Geography is adequate. The existing staff is also adequate. A limited amount of computer hardware and software would need to be purchased.

**14. CURRENT PROVISION/SITUATION AT OTHER INSTITUTIONS**

Several other South African universities offer postgraduate training in Geographical Information Systems as part of a programme. No university in the Eastern Cape offers a focused programme in Geographical Information Systems training. The current production appears to be inadequate as the various government departments, non-governmental organisations and private firms and consultancies expand their Geographical Information Systems capacities.