DEPARTMENT OF BIOMEDICAL AND CLINICAL TECHNOLOGY

B-TECH CLINICAL TECHNOLOGY – BTCLT1

1. Programme information

Please note that the B Tech programme now has four assessed subjects to be completed for awarding of the degree as outline in the table below:

SUBJECTS	**FULL TIME (All subjects in one year)**	**PART-TIME (TWO YEARS)**	
		YEAR 1	**YEAR 2**
1. Research Methodology	1st semester	1st semester	
2. Principles of Management	1st semester	1st semester	
3. Clinical Technology Research Project	Annual		Annual
4. Advanced "Specialist category" Technology	Annual		Annual

The Specialist Subject must be in the category that you have completed your diploma in Clinical Technology. Furthermore, student must be working as a Clinical Technologist but it does not have to be an HPCSA accredited training unit provided that a Graduate Clinical Technologist (having a B Tech or M Tech Degree in Clinical Technology) oversees your Training in the specialized procedures.

2. Purpose of the programme

On completion of the qualification the Student will be able to independently:

- Perform advanced diagnostic, therapeutic, corrective procedures and organ system support on patients using specialised equipment and techniques for the treatment and/or interpretation of a diagnosis of abnormalities and disease.
- Provide training to Clinical Technology students and any other medical personnel;
- Manage clinical technology practice strategically to ensure quality service;
- Conduct and co-ordinate research in the Clinical Technology and any other related fields.

3. Teaching and learning strategies

In the B tech programme we encourage independent self-learning by students. The block lectures are conducted at the beginning of the year. Thereafter support is provided to students via email correspondence and face-to-face contact throughout the course. All students have supervision from their specific category lecturer for the research project.

4. Assessment

Assessment differs for each of the B Tech subjects as follows:

4.1.Principles of Management 1

This subject is based on two assignments, one test and an examination. Final examination will be conducted at DUT, Durban Campus at the end of the semester. Please note that lectures will be held at DUT as per the scheduled block and attendance at these lectures is compulsory.

4.2.Research methodology

This subject is based on Continuous Assessment. Therefore all assignments and projects must reach the DUT on, or before, the due date.

The Subject comprises of 2 parts as follows:

- Statistics component – assessment is based on assignments;
- Research Methodology – assessment is based on assignments (which includes an article critique) and a proposal. The proposal is also reviewed at the DRC for ethical clearance.

Please note that lectures will be held at DUT as per the scheduled block and attendance at these lectures is compulsory.

4.3. Advanced "Specialist category" Technology

The assessment is based on continuous assessment. It includes a portfolio of specialized procedures and proficiency assessment. The computation of the final mark is as follows:

Portfolio	**-**	**40%**
Clinical proficiency	**-**	**60%**

The Specialist Subject must be in the category that you have completed your experiential training in. The topics for each of the seven specialist categories are outlined in each of the study guides and all

readings relevant to the topics and performance of advanced procedures are to be compiled as portfolios. The lecturers in charge for the specialist subjects are:

Nephrology 4 - Prof J K Adam
Cardiology 4 - Dr R Prakaschandra
Critical Care 4 – Mr M E Memela
Perfusion 4 – Mr M J Mohapi
Pulmonology 4 – Mr M E Memela
Neurophysiology 4 – Mr M J Mohapi
Reproductive Biology 4 – Prof J K Adam

4.3.1. Portfolio

A portfolio is a compilation of a student's best work relevant to the course of study; it will contain samples of work i.e. various procedures undertaken, attendance and presentations at workshops, journal clubs and congresses for accumulation of CPD points. Preparation and evaluation of a portfolio emphasizes the performance of the *individual* student; it focuses on the *accomplishment* of the student, with particular emphasis on the student's best work.

The material is typically placed in an expandable file folder that is established by you. The role of the professional portfolios emphasize summative evaluation. **You must compile, analyse, interpret and give comments on the actual samples of work collected and procedures undertaken. Also make sure that you complete the monthly record of procedures performed which has to be signed by you and your unit head.**

The quality of a portfolio depends heavily if not entirely on the validity of its interpretation and use.

4.4. Clinical Technology Research Project

The assessment is based on continuous assessment. It includes a research project in the specialist category and poster assessment. The computation of the final mark is as follows:

Project	-	70%
Poster	-	30%

4.4.1. Project

The project affords you the opportunity to lay a sound foundation for any forthcoming research projects that might cross your path in the future. With regard to the project, you must initially

identify the topic to be **researched** as well as an external supervisor (preferably with a higher qualification than the B Tech Degree) who is willing to guide and assist you with the investigation **[written undertaking by the supervisor must be submitted to the department on registration]**. You should also research the topic before attending the lectures in January, i.e., the importance of the study, the research question or the aims and objectives of the study, what research has been conducted locally and internationally in this area and the methodology. **This must be a one page concept document in the format attached.**

4.4.2. Poster

The poster is developed once student has completed collecting data and finalizing the write-up of the research project. This equips the student with the design and presentation skills and best posters are displayed in the institutional research day.

The Faculty Officer of the Faculty of Health Sciences is Mr V Singh. His office is situated at the Ritson Road Campus. His telephone number is 031- 3732701. He provides the following services to students:

1. Confirmation of registration (for Medical Aid, Banks, Bursaries etc.)

2. Certificate of Good Conduct (if you are transferring Universities)

3. Change of Address and Personal Details. **Please inform the Faculty Officer of any changes immediately. It is in your interest to do so.**

4. Statement of results (plus old archived results)

5. Registration plus late registration (Annual and semesters)

6. Processing of forms (Students leaving, changing course. addition and deletion of subjects)

7. Applications for rewrites, Supplementary, Special Examinations, Scanning, Remarks, Clashes and Transfers

8. Applications and processing of Diplomas, Lost Certificates, Exemptions and transfers

9. Publishing and posting of Final Examination Result

10. Processing Mature Age, Conferment of Status and Research Dissertations (M Tech and D Tech)

11. Processing Applications for Admission

Good Luck

Prof J K Adam

Clinical Technology B Tech Course - Co-ordinator