BSc (Hons) Biomedical Sciences (Top-Up) - Part time- SC302

1. Context and Objectives

Biomedical Sciences is a rapidly advancing scientific discipline aiming to improve and understand human health and diseases. With Mauritius positioning itself as a medical hub in the region and with the growing demand of health care services, especially with an increase in the number of private health laboratories, there are opportunities with a range of careers, including biomedical scientist and medical laboratory technologist, among others.

The BSc (Hons) Biomedical Sciences Top-Up programme is a professional programme designed to meet the multidisciplinary needs of the medical laboratory technologist and biomedical scientist who assist the Allied Health and Medical profession by providing laboratory-based investigations for diagnosis, prevention and management of diseases.

This programme aims at delivering biomedical science skills, appropriate laboratory competence and knowledge. Its applied nature coupled with training in clinical establishments also ensures that highly skilled medical laboratory technologist and biomedical scientists are available to meet the growing demands for health care services.

2. Learning Outcomes

By the end of this programme, graduates are expected to

- enhance their knowledge for diagnosis, prevention and management of diseases,
- evaluate and interpret data gathered from biomedical investigations,
- understand the importance of scientific research in the advancement of biomedical sciences,
- develop analytical and critical evaluation skills, as well as good communication skills, and
- understand the industry standards and good practice in biomedical sciences.

3. Teaching and Learning Methods

This programme will be covered by lectures, self-study, tutorials, online activities, student led seminars and other learning activities, such as field trips, group work, flipping classroom and active learning.

4. Entry Requirements

- **General Entry Requirements**

As per General Entry Requirements for admission to the University of Mauritius for undergraduate degree programmes.

- **Programme Requirements**

BSc (Hons) Biomedical Sciences (Top-Up)

- Diploma in Medical Laboratory Technology from the University of Mauritius OR Diploma in Biomedical Sciences from the University of Mauritius OR any other related qualification at Diploma level in Biomedical Sciences acceptable to the University of Mauritius.

- At least two years' post-diploma relevant work experience.

5. Programme Duration - Part Time

	Normal	Maximum
BSc (Hons) Biomedical Sciences *(Top-Up)*	4 Semesters (2 years)	6 Semesters (3 years)

6. Minimum LCCS Credits Required:

- **for Award of degree: 80**
- **for each Academic Year**

Year of Study	Number of LCCS Credits	Notional Learning Hours
1	36	1080
2	44	1320
Total	80	2400

- Maximum and minimum LCCS Credits/year as per the UoM Regulation

Breakdown of notional learning hours

The total notional learning hours for the 2 years' part time programme will be comprised of the following:

Learning activity	Notional Learning Hours
Contact teaching	520
Self-study	600
Other learning activities	1280
Total	2400

7. Assessment and Deadlines

Continuous and Written Assessment of Modules

Each module will carry 100 marks and will be assessed by **a 2 hr written examination paper** at the end of the semester in which they are taught (unless otherwise specified).

An overall of 40% for combined continuous assessment and written examination component would be required to pass a module. Continuous assessment will carry 40% of total marks while written examination will account for 60%. Continuous assessment can be based on practical test/case studies/reports/seminar/assignments/activities and should include at least 1 class test.

- **Written Examinations**

The following modules will be assessed by a 2 hr written examination paper at the end of the semester in which they are taught

Year I	Year II
Semester I BMS 4101(5); BMS 4131(5); BMS 4102(5) **Semester II** BMS 4201(5), BMS 4231(5)	**Semester I** BMS 5101(5) **Semester II** BMS 5201(5)

The following module will be assessed by a 3 hr written examination paper at the end of the academic year in which they are taught:
BMS 5001Y

- **Laboratory Work and Continuous Assessment**

  - ***Modules including a Practical Component***

Laboratory work will be assessed on a continuous assessment basis and will carry a weighting of 30% of the total marks awarded for the respective modules involved.

Continuous assessment for the theory part of modules having a practical component will carry a weighting of 10% of total marks for the module.

  - ***Modules not including a practical component/Modules including demonstrations***

For the above modules, continuous assessment will carry a weighting of up to 40% of total marks for the respective modules.

- **BMS 4202(5) Health Research Methods for Biomedical Sciences**

This module will be assessed by continuous assessment only which can be based on practical test/case studies/reports/seminar/assignments/activities and should include at least 1 class test.

- **Assessment of Research Project**

The research project will carry a weighting of 20 LCCS Credits towards degree award. The research project will be assessed based on the written project and a *Viva Voce*.

The weighting for the research project is as follows:

Written dissertation	-	90% of dissertation
Viva Voce	-	10% of dissertation

8. List of Modules - BSc (Hons) Biomedical Sciences (Top-Up)

Code	Module Name
BMS 4101(5)	Recent Developments in Biomedical Sciences I
BMS 4102(5)	Emerging Infectious Diseases
BMS 4103(5)	Advanced Cell Biology
BMS 4201(5)	Molecular Biology and Diagnostics
BMS 4231(5)	Recent Developments in Biomedical Sciences II
BMS 4202(5)	Health Research Methods for Biomedical Sciences
BMS 5000(5)	Research Project
BMS 5001Y(5)	Standard and Management of Quality
BMS 5101(5)	Recent Developments in Biomedical Sciences III
BMS 5201(5)	Pathophysiology of Diseases

9. Programme Plan - BSc (Hons) Biomedical Sciences – Top-Up

Code	Module Name	Contact Teaching (Hours) L*/P	Self Study (Hours)	Other Learning activities (Hours)	Total Learning (Hours)	LCCS Credits
YEAR I						
SEMESTER I						
BMS 4101(5)	Recent Developments in Biomedical Sciences I	30/30	60	60	180	6
BMS 4102(5)	Emerging Infectious Diseases	30/30	60	60	180	6
BMS 4103(5)	Advanced Cell Biology	30/0	60	90	180	6
					Sub Total	18
SEMESTER II						
BMS 4201(5)	Molecular Biology and Diagnostics	30/30	60	60	180	6
BMS 4231(5)	Recent Developments in Biomedical Sciences II	30/30	60	60	180	6
BMS 4202(5)	Health Research Methods for Biomedical Sciences	30/30	60	60	180	6
					Sub Total	**18**
					Total for Year 1	**36**
YEAR II						
SEMESTER I						
BMS 5000(5)	Research Project	-	-	300	300	-
BMS 5001Y(5)	Standard and Management of Quality	30/20	60	70	180	-
BMS 5101(5)	Recent Developments in Biomedical Sciences III	30/30	60	60	180	6
					Sub Total	**6**
SEMESTER II						
BMS 5001Y(5)	Standard and Management of Quality	30/20	60	70	180	12
BMS 5201(5)	Pathophysiology of Diseases	30	60	90	180	6
BMS 5000(5)	Research Project	-	-	300	300	20
					Sub Total	**38**
					Total for Year 1	**44**
					Grand Total	**80**

*L- will include lectures and tutorials; P- practicals.