

# **Undergraduate Prospectus - 2018/2019**



## **Biological Science**

**Faculty of Science  
University of Kelaniya  
Sri Lanka**

## Message from the Dean of the Faculty



You are entering a phase in life which will decide the path you would follow in your future endeavours. The University of Kelaniya and the Faculty of Science has a long tradition of excellence in teaching, learning and research which provide the undergraduates with an environment conducive to change your life and attitudes to become individuals with capabilities to meet the demands and complexities of the working world. Over the last 50 years, the Faculty of Science has produced graduates who have significantly contributed towards national development and glittered internationally with notable contributions.

I would like to encourage you to take the responsibility for your own learning, aiming to achieve excellence. Learning at the University is not confined to the academic activities. We provide a range of facilities to engage in extra and co-curricular activities. University of Kelaniya provides these facilities to enhance your undergraduate experience. Use these facilities and enjoy your experience at the Faculty of Science and enjoy your life at this important phase to become a well-balanced individual.

Anticipate that your stay at the Faculty of Science will be very productive and enjoyable.

**Senior Professor Sudath R D Kalingamudali**



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## 1. Faculty of Science (FoS) of the University of Kelaniya (UoK)

Vidyalankara University of Ceylon, currently known as the University of Kelaniya (UoK) was established in 1959 under the provision of the Vidyodaya and Vidyalankara University Act No. 45 of 1958. One of the faculties planned to be established at that time was the Faculty of Science (FoS) in Dalugama premises with two academic departments, namely the departments of Mathematics and Geography. Although these two departments were established in 1959, during the period 1959 – 1962, a Dean was not appointed to the Faculty of Science and students were also not enrolled. In 1962, the Faculty of Science was abolished and the two departments were attached to the Faculty of Arts. However, in October 1967, the Faculty of Science (FoS) was re-established with six academic departments, viz., Departments of Botany, Chemistry, Industrial Management, Mathematics, Physics and Zoology. The first batch of 57 students was admitted in 1967 to follow the three-year Bachelor of Science Degree Program (BSc General) under two study streams, viz. Physical Science (PS) and Biological Science (BS). The first BSc (Special) degree of four-year duration (2 years + 2 years) in BS stream commenced in 1974 with BSc (Special) degree in Zoology and later special degrees were commenced by other departments/disciplines.

Two more academic departments viz, Department of Microbiology and Department of Statistics and Computer Science were established in 1990 and 1999 respectively to strengthen the process of producing graduates to cater to the national needs. A Software Engineering Teaching unit was established in 2018. Hence, as at present, FoS comprises of eight Departments of Study and a Teaching unit.

In 2013 as per the UGC Circular No. 05/2013 which required all universities to implement the Sri Lanka Qualifications framework (SLQF), all BSc (General) degree and BSc (Special) degree programmes were renamed as **BSc degree** and **BSc Honours degree** programmes respectively.



## 2. Vision and Mission

“

*Vision of the University of Kelaniya is to become a Centre of excellence in creation and dissemination of knowledge for sustainable development.*

”

“

*The mission of the Faculty of Science is to produce highly motivated graduates and postgraduates capable of making a significant contribution towards national development and the wellbeing of mankind, to conduct research and provide advice and consultancy services in various scientific disciplines to foster a better understanding of the environment for sustainable use and conservation of natural resources.*

”



### 3. Subjects offered by departments of study for Biological Science undergraduates

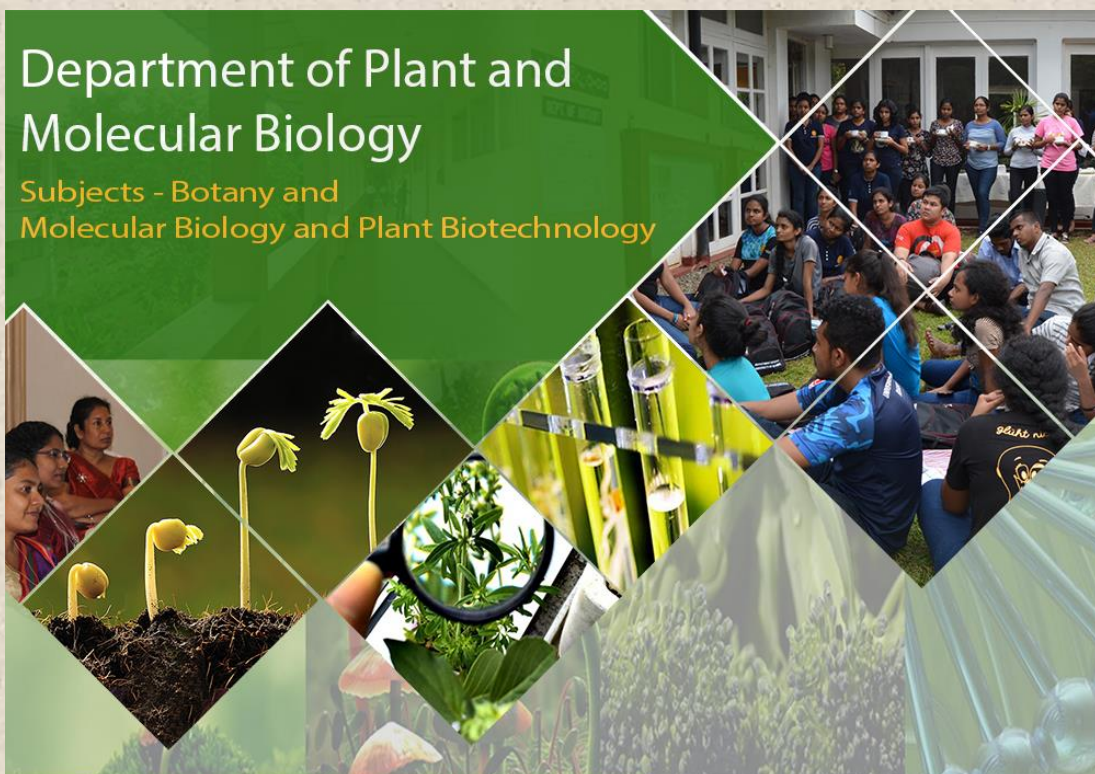
Four academic Departments of the FoS mainly contribute for the BSc and BSc Honours degree programmes (Biological Science). Additionally Biological science students have the opportunity to study information technology through the Computer Studies programme offered by the Department of Statistics & Computer Science.





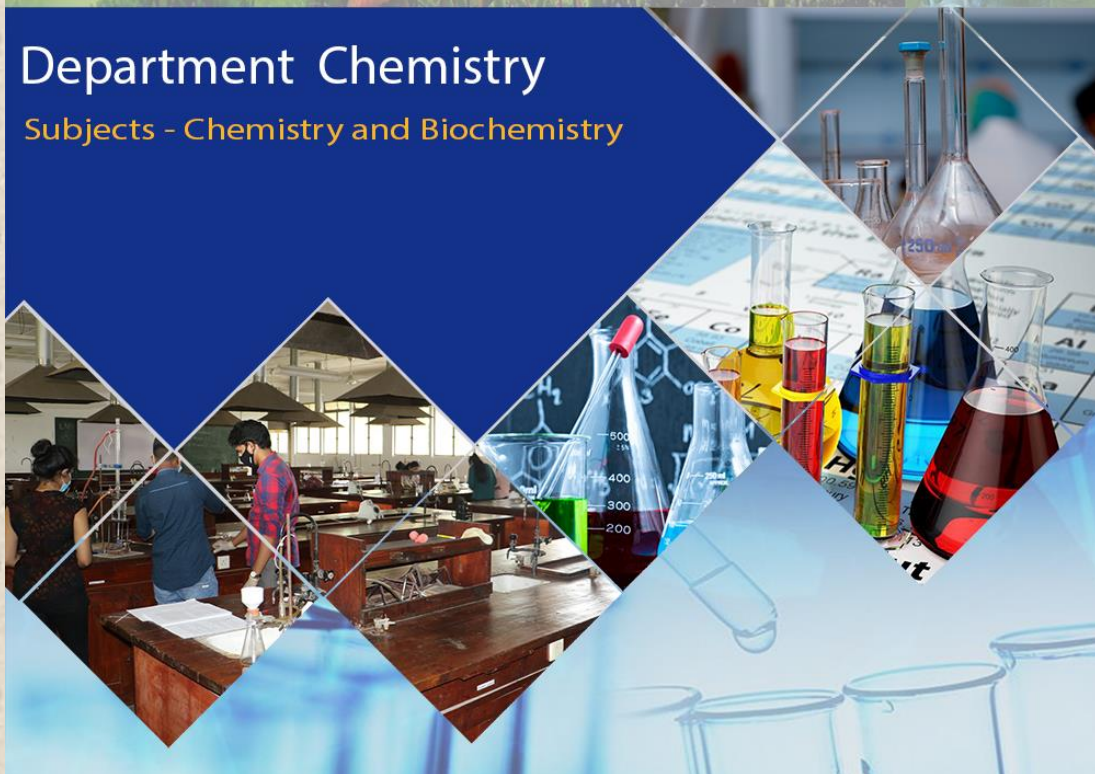
# Department of Plant and Molecular Biology

Subjects - Botany and Molecular Biology and Plant Biotechnology



# Department Chemistry

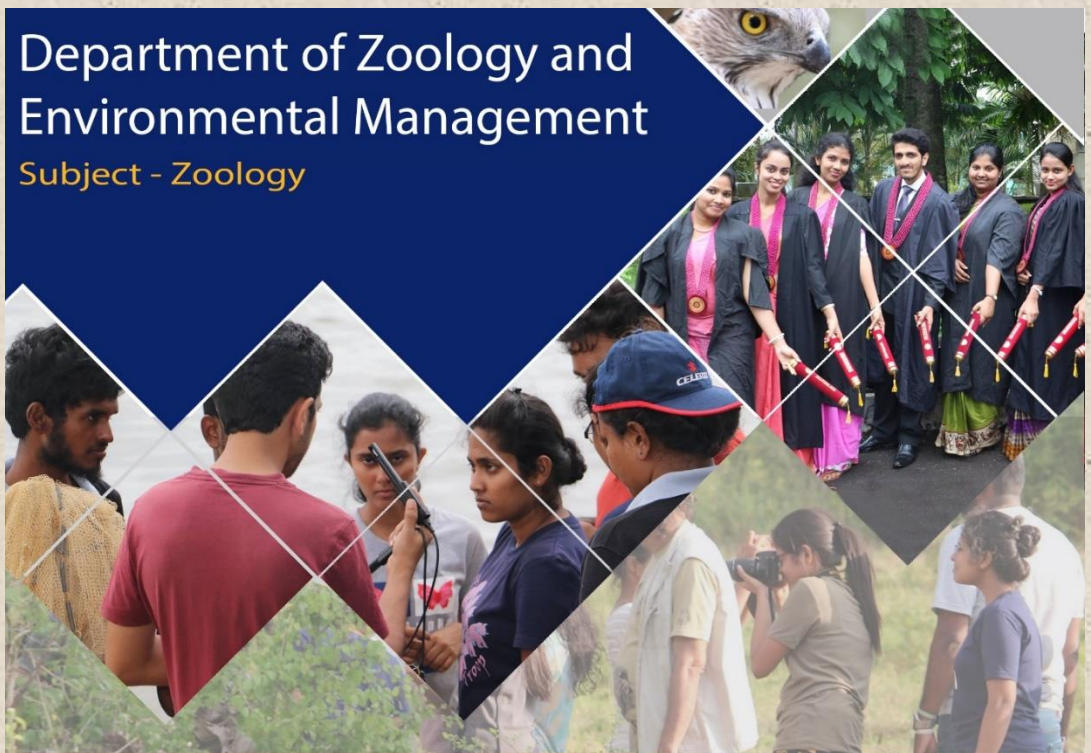
Subjects - Chemistry and Biochemistry





# Department of Zoology and Environmental Management

Subject - Zoology



# Department of Statistics & Computer Science

Subject - Computer Studies





#### 4. Bachelor of Science (BSc) Degree programme - Biological Science

Programme output of BSc Degree  
(Biological Science) is to produce

graduates with broad knowledge on theory, practice, and methodology of biological sciences that enable them to bear responsibility in an academic or professional environment.

## 5. Graduate Profile and Intended Learning outcomes (ILOs) of the BSc Degree programme - Biological Science

	Graduate Profile	Intended Learning Outcomes
	BSc degree holder of FoS of UoK will be an enthusiastic, honest, responsible, emotionally mature, assertive, motivated life-long learner with....	After completing the prescribed study programme, the graduates of BSc (Biological Science) should be in a position to.....:
Knowledge (K)	...comprehensive knowledge on the principles, concepts and practices of the areas of biological sciences;	<b>ILO 1</b> explain concepts and principles of biological sciences
	...the ability to apply knowledge obtained efficiently and effectively to identify, analyze and find appropriate solutions to the real world problems;	<b>ILO 2</b> model real world problems in scientific framework using the concepts and principles in biological sciences <b>ILO 3</b> collect qualitative and quantitative data; analyze and interpret them logically and accurately <b>ILO 4</b> develop arguments and make sound judgment in accordance with basic theories and concepts of biological sciences <b>ILO 5</b> propose solutions to the problems based on biological principles
Skills (S)	...proficiency to use ICT and any relevant technologies appropriately to identify, access, organize, process, evaluate and synthesize quantitative and qualitative information;	<b>ILO 6</b> obtain information, organize, analyze and use them effectively using ICT and other relevant technologies <b>ILO 7</b> adopt emerging technologies leading to better and efficient solutions
	...ability to communicate information effectively and convincingly to diverse audiences;	<b>ILO 8</b> communicate effectively and convincingly to diverse audiences <b>ILO 9</b> work effectively with team members and stakeholders, displaying the skills of listening, negotiating and leadership



Attitudes (A)	<p>...intercultural perspective and respect for human rights;</p> <p>...ability to adapt, work independently and in collaboration with others;</p>	<p><b>ILO 10</b> integrate and work in different cultures and sub cultures, and respect their values</p> <p><b>ILO 11</b> adapt to new working environments work effectively in teams and demonstrate self-motivation and interpersonal skills</p>
Mind-set & Paradigm(M)	<p>...ethical conduct, professional integrity, punctuality and managerial skills.</p>	<p><b>ILO 12</b> respect peers and follow ethical guidelines and principles</p> <p><b>ILO 13</b> maintain professional integrity, punctuality and practice effective managerial skills.</p>



**MEDIA TEAM - UNIVERSITY OF KELANIYA**



## 6. Structure of BSc degree Programme - Biological Science

FoS offers nine different subject combinations designed to provide BS students a maximum possible flexibility in the choice of subjects with three compulsory subjects with student preference for registration (Table 1). In addition to the biological science disciplinary subjects, students have the opportunity to study information technology discipline related subjects through the selection of pathways 2 and 3 (Table 1) which include Computer Studies (COST).

Biochemistry (BIOC), Computer Studies (COST), Microbiology (MIBI) and Molecular Biology & Plant Biotechnology (MBBT) subjects have limited student enrolment when demand exceeds capacity. Student selection for preferred course pathway takes place at the beginning of the second semester of the first academic year based on student performance at the first year end of course examination.

**Table 1.** Subject combinations offered for BSc degree programme (Biological-Science) CHEM-Chemistry; BOTA-Botany; ZOOL-Zoology

Course Pathway	Subject combination		
1	CHEM	BOTA	ZOOL
2	CHEM	BOTA	COST
3	CHEM	COST	ZOOL
4	BOTA	CHEM	MIBI
5	CHEM	MIBI	ZOOL
6	CHEM	MIBI	BIOC
7	BOTA	CHEM	MBBT
8	BIOC	BOTA	CHEM
9	BIOC	CHEM	ZOOL

### Subject course unit

A subject course unit is identified/defined by a subject/course code followed by 5 digit number. The credit weight of the course unit is denoted by the 5<sup>th</sup> digit; first digit denotes the year/level; second digit denotes the semester in which the course is offered.



## 7. Stream compulsory course units

All BS students are offered four Biology course modules/units, (BIOL), two English course units, (DELT), and a Management course unit, (MGMT) each of 2 credit weight as compulsory for the study stream (Table 2).

**Table 2.BS-Stream compulsory course units**

Year 1 semester 1
BIOL 11512 Scope and Fundamentals of Microbiology
BIOL 11522 Genetics
BIOL 11532 Basic Biochemistry
BIOL 11542 Animal Form, Function and Behaviour
DELT 11222 <sup>1</sup> English for Biology
Year 2, Semester 2
DELT 22232 <sup>1</sup> English for Communication and Further Studies
Semester 1 of Year 1 or 2 or 3
MGMT 11022 <sup>1, 2</sup> Communication Skills and Personality Development

**Auxiliary Courses**  
Students are given the opportunity to take non-subject course units (auxiliary) in order to improve his/her skills/language up to a maximum of 6 credits with not more than 2 credits per semester from other faculties.

<sup>1</sup> Credits not counted for GPA calculation

<sup>2</sup> Should offer during the three-year period of the Degree Programme

## 8. Credit weightage of BSc Degree Programme - Biological Science

For the completion of the BSc degree programme a student is required to earn at least 30 credits from each academic year and aggregating to at least 90 credits during the entire three academic year period. Further, a minimum of 48 credits must be from two of the subjects of which at least 24 must be from one subject of the relevant course combination. Students are advised to refer to the Faculty Student Hand Book for degree awarding criteria.

Available combinations to select course units in Year 1, 2 and 3 are given in Table 3, 4 and 5 respectively.

**Table 3: Year 1 course unit combination**

Year 1 Course code	Course unit combination								
	1	2	3	4	5	6	7	8	9
BIOL 11512	C	C	C	C	C	C	C	C	C
BIOL 11522	C	C	C	C	C	C	C	C	C
BIOL 11532	C	C	C	C	C	C	C	C	C
BIOL 11542	C	C	C	C	C	C	C	C	C
DELT 11222 <sup>1</sup>	C	C	C	C	C	C	C	C	C
BIOC 12513						C		C	C
BIOC 12522						C		C	C
BIOC 12531						C		C	C
BOTA 12514	C	C		C			C	C	
BOTA 12522	C	C		C			C	C	
CHEM 11511 <sup>1</sup>	C	C	C	C	C	C	C	C	C
CHEM 11522	C	C	C	C	C	C	C	C	C
CHEM 11532	C	C	C	C	C	C	C	C	C
CHEM 11541	C	C	C	C	C	C	C	C	C
CHEM 12552	C	C	C	C	C	C	C	C	C
CHEM 12562	C	C	C	C	C	C	C	C	C
CHEM 12571	C	C	C	C	C	C	C	C	C
COST 11513	O	C	C	O	O	O	O	O	O
COST 11522	O	C	C	O	O	O	O	O	O
COST 12533		C	C						
COST 12542		C	C						
IMGT 14512	A	A	A	A	A	A	A	A	A
IMGT 21511	A	A	A	A	A	A	A	A	A
MIBI 12514				C	C	C			
MIBI 12522				C	C	C			
MBBT 12513							C		
MBBT 12522							C		
MGMT 11022 <sup>1,2</sup>	C	C	C	C	C	C	C	C	C
PMAT 11703	A	A	A	A	A	A	A	A	A
PMAT 12713	A	A	A	A	A	A	A	A	A
STAT 14552	A	A	A	A	A	A	A	A	A
ZOOL 12512	C		C		C				C
ZOOL 12523	C		C		C				C
ZOOL 12531	C		C		C				C
No of Credits from Compulsory Units	30	34	34	30	30	30	29	30	30

**Table 4: Year 2 course unit com**

Year 2 Course code	Course unit combination								
	1	2	3	4	5	6	7	8	9
BIOC 21512						C		C	C
BIOC 21522						C		C	C
BIOC 21531						C		C	C
BIOC 22542						C		C	C
BIOC 22552						C		C	C
BIOC 22561						C		C	C
BOTA 21513	C	C		C			C	C	
BOTA 21522	C	C		C			C	C	
BOTA 21531	C	C		C			C	C	
BOTA 22544	C	C		C			C	C	
BOTA 22552	C	C		C			C	C	
CHEM 21512	C	C	C	C	C	C	C	C	C
CHEM 21522	C	C	C	C	C	C	C	C	C
CHEM 21531	C	C	C	C	C	C	C	C	C
CHEM 22542	C	C	C	C	C	C	C	C	C
CHEM 22552	C	C	C	C	C	C	C	C	C
CHEM 22561	C	C	C	C	C	C	C	C	C
CHEM 22571	C	C	C	C	C	C	C	C	C
COST 21513		C	C						
COST 22523		C	C						
COST 22534		C	C						
DELT 22321 <sup>1</sup>	C	C	C	C	C	C	C	C	C
IMGT 14512	A	A	A	A	A	A	A	A	A
IMGT 21511	A	A	A	A	A	A	A	A	A
MIBI 21514				C	C	C			
MIBI 21522				C	C	C			
MIBI 22534				C	C	C			
MIBI 22542				C	C	C			
MBBT 21513							C		
MBBT 21523							C		
MBBT 22533							C		
MBBT 22543							C		
MGMT 11022 <sup>1,2</sup>	C	C	C	C	C	C	C	C	C
PHYS 25553	O	O	O	O	O	O	O	O	O
PMAT 11703	A	A	A	A	A	A	A	A	A
PMAT 12713	A	A	A	A	A	A	A	A	A
STAT 14552	A	A	A	A	A	A	A	A	A
ZOOL 21512	C		C		C				C
ZOOL 21521	C		C		C				C
ZOOL 21532	C		C		C				C
ZOOL 22543	C		C		C				C
ZOOL 22552	C		C		C				C
ZOOL 22561	C		C		C				C
No of Credits from Compulsory Units	34	33	32	35	34	33	35	33	32

Table 3 and 4

<sup>1</sup> Credits not counted for the GPA calculation

<sup>2</sup> Should offer during the three year period of the Degree Programme

Students may take course units up to a maximum of 6 credits with not more than 2 credits per semester from other faculties.

**Table 5: Year 3 course unit combination**

Year 3 Course code	Course unit combination								
	1	2	3	4	5	6	7	8	9
BIOC 31511						C		C	C
BIOC 31522						C		C	C
BIOC 31532						C		C	C
BIOC 31541						C		C	C
BIOC 32552						O		O	O
BIOC 32561						O		O	O
BOTA 31514	C	C		C			C	C	
BOTA 31522	C	C		C			C	C	
BOTA 32534	O	O		O				O	
BOTA 32542	O	O		O				O	
BOTA 32554	O	O		O			O	O	
CHEM 31511	C	C	C	C	C	C	C	C	C
CHEM 31522	O	O	O	O	O	O	O	O	O
CHEM 31532	O	O	O	O	O	O	O	O	O
CHEM 32542	O	O	O	O	O	O	O	O	O
CHEM 32552	O	O	O	O	O	O	O	O	O
CHEM 32561	O	O	O	O	O	O	O	O	O
COST 31513		O	O						
COST 31523		C	C						
COST 32532		O	O						
COST 32543		O	O						
IMGT 14512	O	O	O	O	O	O	O	O	O
IMGT 21511	O	O	O	O	O	O	O	O	O
MIBI 31514				C	C	C			
MIBI 31522				C	C	C			
MIBI 32556				O	O	O			
MIBI 33534				O	O	O			
MIBI 33541				O	O	O			
MIBI 33562				O	O	O			
MBBT 31513							C		
MBBT 31522							C		
MBBT 32534							O		
MBBT 32542							O		
MGMT 11022 <sup>1,2</sup>	C	C	C	C	C	C	C	C	C
PHYS 32582	O	O	O	O	O	O	O	O	O
PMAT 11703	A	A	A	A	A	A	A	A	A
PMAT 12713	A	A	A	A	A	A	A	A	A
PRPL 31992	O	O	O	O	O	O	O	O	O
STAT 14552	A	A	A	A	A	A	A	A	A
ZOOL 31512 <sup>3</sup>	O		O		O				O
ZOOL 31523 <sup>3</sup>	O		O		O				O
ZOOL 31532 <sup>3</sup>	O		O		O				O
ZOOL 32543 <sup>3</sup>	O		O		O				O
ZOOL 32552 <sup>3</sup>	O		O		O				O
ZOOL 32563 <sup>3</sup>	O		O		O				O
<b>No of Credits from Compulsory Units</b>	<b>7</b>	<b>10</b>	<b>4</b>	<b>13</b>	<b>7</b>	<b>13</b>	<b>12</b>	<b>13</b>	<b>7</b>

**Table 5**

<sup>1</sup> Should offer during the three year period of the

Degree Programme <sup>2</sup> **Credits not counted for the GPA calculation**

<sup>3</sup>In order to claim Zoology as a subject for the BSc Degree programme, student should accumulate a minimum of 7 credits from the level 3 ZOOL optional course units

Students may take course units up to a maximum of 6 credits with not more than 2 credits per semester from other faculties



## 9. Eligibility for the Award of the Bachelor of Science Degree (Quoted from Faculty Student Hand Book 2018/2019)

To be eligible for the BSc Degree a student must

- (i) accumulate grades of D or better in course units, aggregating to at least 60 credits during the first two academic years, and aggregating to at least 90 credits during the entire three academic year period, including the stream compulsory units where applicable, of which at least 30 credits must be from each academic year separately,
- (ii) obtain grades of C or better in course units aggregating to at least 72 credits of which at least 48 must be from two subjects with at least 24 credits from each of them, and grades of D or better in course units aggregating to at least further 18 credits, considered under (i) above, provided that at least one of the above two subjects is with a practical component,
- (iii) obtain a GPA of 2.00 or greater, and
- (iv) complete the relevant requirements within a period of five consecutive academic years.

### Award of First Class

A student who is eligible for the BSc Degree may be awarded First Class provided he/she

- (i) obtains grades of C or better in course units aggregating to at least 90 credits, considered under (ii) above,
- (ii) obtains grades of A or better in course units aggregating to at least half the number of total credits for the course units considered under (ii) of eligibility criteria stated above,
- (iii) obtains a GPA of 3.70 or greater, and
- (iv) completes the relevant requirements within three consecutive academic years.

### Second Class (Upper Division)

A student who is eligible for the BSc Degree may be awarded Second Class (Upper Division) provided he/she

- (i) obtains grades of C or better in course units aggregating to at least 80 credits and grades of D or better in the remaining course units, considered under (ii) of eligibility criteria stated above,
- (ii) obtains grades of B or better in course units aggregating to at least half the number of total credits for the course units considered under (ii) of eligibility criteria stated above,
- (iii) obtains a GPA of 3.30 or greater, and
- (iv) completes the relevant requirements within three consecutive academic years.

### Award of Second Class (Lower Division)

A student who is eligible for the BSc Degree/BSc Degree may be awarded Second Class (Lower Division) provided he/she

- (i) obtains grades of C or better in course units aggregating to at least 80 credits and grades of D or better in the remaining course units, considered under (ii) of eligibility criteria stated above,
- (ii) obtains grades of B or better in course units aggregating to at least half the number of total credits for the course units considered under (ii) of eligibility criteria stated above,
- (iii) obtains a GPA of 3.00 or greater, and
- (iv) completes the relevant requirements within three consecutive academic years.

## 10. BSc Honours Degree Programmes - Biological Science

At the end of the second academic year of the BSc degree programme a BS student has the option for applying for the honours degree programme. A student who fulfils the merit based eligibility criteria as prescribed in the Faculty student hand book (SHB) is enrolled to pursue further two academic years in the BSc Honours degree programme specializing either in Biochemistry, Botany, Chemistry, Computer Studies, Microbiology, Molecular Biology & Plant Biotechnology, or Zoology. The five departments of study offer seven specialization subjects offering seven honours degree programmes as given in Table 3.


**Table 6.** BSc Honours degree programmes (Biological Science) and the Department of study

Department of study	Honours Degree Programme
Department of Microbiology	BSc Honours in Microbiology
Department of Plant & Molecular Biology	BSc Honours in Botany BSc Honours in Molecular Biology & Plant Biotechnology
Department of Zoology and Environmental Management	BSc Honours in Zoology
Department of Chemistry	BSc Honours in Biochemistry
	BSc Honours in Chemistry
Department of Statistics and Computer Studies	BSc Honours in Computer Studies



## 11. Programme output of BSc Honours Degree - Biological science

Programme output/objective of the BSc Honours degree is to produce graduates with deep and broad knowledge on theory, practice, and methodology of biological sciences that enable them to bear responsibility in an academic or professional environment



## 12. Graduate Profile and Intended Learning outcomes (ILOs) of the BSc Honours Degree programme - Biological Science

	Graduate Profile	Intended Learning Outcomes
	BSc Honours degree (Biological Science) holder of the FoS of UoK will be an enthusiastic, honest, responsible, emotionally mature, assertive, self-motivated life-long learner with.....	After completing the prescribed study programme, the graduates of BSc Honours (Biological Science) should be in a position to.....
K	...specialized knowledge and understanding of principles of Biology and Chemistry; fundamental areas and modern frontiers of the discipline with hands on experience in laboratory techniques and laboratory safety related to the specialized discipline.	<b>ILO 1</b> explain basic and advanced principles and modern frontiers in biology or chemistry
		demonstrate an in-depth knowledge in principles, fundamentals and modern frontiers of biology or chemistry
		<b>ILO 2</b> apply advanced knowledge in selected study areas of biology or chemistry; adopt and modify existing protocols to suit available resources
	...awareness of current, complex and controversial issues in the subject area, and have the ability to apply knowledge to identify, analyze and propose appropriate solutions	<b>ILO 3</b> demonstrate hands on experience in laboratory techniques while adhering to the laboratory safety instructions related to the discipline
		<b>ILO 4</b> apply principles on biology or chemistry in different contexts across the discipline and propose solutions to real-world problems
S	...ability to follow scientific method including critical thinking, logical reasoning and formulation of hypothesis, to design and conduct independent research for the generation of new knowledge contributing to the betterment of mankind	<b>ILO 5</b> obtain evidence by reviewing scientific literature and other sources to formulate, design and conduct scientific experiments to test hypotheses
		<b>ILO 6</b> employ critical thinking and logical reasoning to analyze evidence, develop arguments and formulate hypothesis
		<b>ILO 7</b> critically analyze quantitative and qualitative data to make justifiable conclusions
	...ability to communicate his/her own ideas and views effectively and convincingly to diverse	<b>ILO 8</b> effectively communicate ideas and views to both scientific and laymen communities



	audiences, thorough understanding of skills related to ICT and information literacy	<b>ILO 9</b> present theoretical subject matter and research findings creatively and effectively to scientific audiences
		<b>ILO 10</b> demonstrate self-motivation and interpersonal skills
	...interpersonal skills and strong adaptability to new academic and social environments	<b>ILO 11</b> adapt to new academic and social environments nationally and internationally
<b>A</b>	...ethical conduct, professional integrity, punctuality, managerial and entrepreneurial skills.	<b>ILO 12</b> recognize and respect views and opinions of peers
		<b>ILO 13</b> identify individual and collective goals and responsibilities and perform accordingly
		<b>ILO 14</b> demonstrate intellectual integrity and scientific ethics
		<b>ILO 15</b> adapt to diverse academic and social environments
<b>M</b>	...ability to initiate and take personal and social responsibility in tasks performed	<b>ILO 16</b> demonstrate flexibility, adaptability and self-motivation towards continuous professional development

### 13. Minimum credit Requirement for BSc Honours Degree Programme – Biological Science

The four year BSc Honours degree programme (BS) consists of a total of 126 credits. A minimum of 66 credits should be earned by the students during their third and fourth academic years out of which 48 credits should come from the level 4 specialization courses. The credit structure of BSc Honours degree programme is given in Table 4. A student carries out a research project (8 credits) on his/her specialization area during the year 4.

**Table 7.** Credit structure of the BSc Honours degree programme

Academic Year	Credits	Remarks
1	30	
2	30	
3	66	48 credits should be from <b>Level 4</b> subjects of respective specialization
4		



## 14. Course structure of Honours Degree Biological Science year 3 and year 4

Subject course units offered for respective honours degree programme during the academic years 3 and 4 are given in Tables 8, 9, 10 and 11.

Course code	Table 8						
	Botany	Chemistry		Microbiology	MBBT	Zoology	Biochemistry
BIOC 32552	O					O	
BIOC 32561	O					O	
BIOC 43764							C
BIOC 43774							C
BIOC 43784							C
BIOC 43794							C
BIOC 43802							C
BIOC 43812							C
BIOC 43822							C
BIOC 43832							C
BIOC 43841 <sup>1</sup>							C
BIOC 43854							C
BIOC 43864							C
BIOC 43874							C
BIOC 43884							C
BIOC 43891							C
BIOC 43908							C
BOTA 31514	C						
BOTA 31522	C						
BOTA 32534	C						
BOTA 32542	C						
BOTA 41766	C						
BOTA 41784	C						
BOTA 41793	C						
BOTA 41803	C						
BOTA 41813	C						
BOTA 41823	C						
BOTA 42776	C						
BOTA 42853	C						
BOTA 42864	C						
BOTA 42873	C						
BOTA 43838	C						
BOTA 43842	C						

Course code	Table 9						
	Botany	Chemistry		Microbiology	MBBT	Zoology	Biochemistry
CHEM 31511	C			C	C	C	
CHEM 31522	O			O	O	O	
CHEM 31532	O			O	O	O	
CHEM 32542	O			O	O	O	
CHEM 32552	O			O	O	O	
CHEM 32561	O			O	O	O	
CHEM 43764		C					C
CHEM 43774		C					
CHEM 43784		C					
CHEM 43794		C					C
CHEM 43804		C					
CHEM 43812		C					C
CHEM 43822		C					
CHEM 43833		C					
CHEM 43843		C					C
CHEM 43853		C					
CHEM 43862		C					
CHEM 43872 <sup>1</sup>		C					
CHEM 43884		C					
CHEM 43894		C					
CHEM 43904		C					
CHEM 43914		C					C
CHEM 43924		C					
CHEM 43934		C					
CHEM 43948		C					
CHEM 43951		C					

<sup>1</sup> Students must follow one of the two course units.

<sup>2</sup> Zoology honours students must follow one from the two course units.

<sup>3</sup> Credits not counted for the GPA calculation.

Course code	Table 10						
	Botany	Chemistry		Microbiology	MBBT	Zoology	Biochemistry
COST 31513							C
COST 31523							C
COST 31554							C
COST 31562							C
COST 32532							C
COST 32543							C
COST 32574							C
COST 41013							C
COST 41164 <sup>2</sup>							O
COST 41174 <sup>2</sup>							O
COST 42022							C
COST 44033							C
COST 44043							C
COST 44053							C
COST 44062							C
COST 44072							O
COST 44083							C
COST 44092							C
COST 44102							C
COST 44112							O
COST 44122							C
COST 44132							C
COST 44143							C
COST 44152							C
COST 44184							O
COST 44193							C
COST 44203							O
COST 44213							O
COST 44223							O
COST 43238							C
MIBI 31514				C			
MIBI 31522				C			
MIBI 32556				C			
MIBI 33534				C			
MIBI 33541				C			
MIBI 33562				O			
MIBI 41784				C			
MIBI 41804				C			
MIBI 41824				C			
MIBI 43764				C			
MIBI 43774				C			
MIBI 43794				C			
MIBI 43814				C			
MIBI 43834				C			
MIBI 43846				C			
MIBI 43852				C			
MIBI 43868				C			

Course code	Table 11						
	Botany	Chemistry		Microbiology	MBBT	Zoology	Biochemistry
MBBT 31513					C		
MBBT 31522					C		
MBBT 32534					C		
MBBT 32542					C		
MBBT 41766					C		
MBBT 41784					C		
MBBT 41794					C		
MBBT 41805					C		
MBBT 41813					C		
MBBT 42776					C		
MBBT 42853					C		
MBBT 42864					C		
MBBT 43824					C		
MBBT 43832					C		
MBBT 43848					C		
ZOOL 31512						C	
ZOOL 31532						C	
ZOOL 32543						C	
ZOOL 32552						C	
ZOOL 32563						C	
ZOOL 41512						C	
ZOOL 41524						C	
ZOOL 41574						C	
ZOOL 41584						C	
ZOOL 41592						C	
ZOOL 41612 <sup>5</sup>						O	
ZOOL 41622 <sup>5</sup>						O	
ZOOL 42542						O	
ZOOL 42554 <sup>4</sup>						O	
ZOOL 42564 <sup>4</sup>						O	
ZOOL 42632						C	
ZOOL 42642						C	
ZOOL 42654						C	
ZOOL 42662 <sup>5</sup>						O	
ZOOL 42672 <sup>5</sup>						O	
ZOOL 42684 <sup>5</sup>						O	
ZOOL 42692 <sup>5</sup>						O	
ZOOL 43532						O	
ZOOL 43608						C	

<sup>1</sup> Credits not counted for the GPA calculation

<sup>2</sup> Students are allowed to register to follow either COST 41164 or COST 41174, but not both in Semester I of Level 4

<sup>3</sup> Students should accumulate for at least one optional course units offered in Level 3

<sup>4</sup> BSc Hons (Zoology) students must follow one of the two level 4 optional course units in the 3rd year

## 15. Eligibility for the Award of the Bachelor of Science Honours Degree (SLQF 6)

To be eligible for the BSc Hons Degree, a student must

(i) accumulate grades of D or better,

(a) in course units aggregating to at least 30 credits, including either at least 10 credits in the subject of specialization and the stream compulsory course units where applicable, or at least 10 credits each in the subjects of specialization and the stream compulsory course units where applicable, as the case may be, in each academic year, totalling to at least 60 credits, in the first two academic years, and

(b) aggregating to at least 66 credits in the third and the fourth academic year course units including at least 48 credits in level 4 course units in the subject/subjects of specialization, totalling to at least 126 credits, provided that he/she accumulates credits in the compulsory course units as stipulated by the relevant Department/Departments of study,

(ii) obtain grades of C or better in course units aggregating to at least 100 credits of which at least 40 credits should be in level 4 course units, and grades of D or better in course units aggregating to at least further 26 credits, with the proviso that he/she should not obtain grades of E in any of the course units in the subject/subjects of specialization, considered under (i) above,

(iii) obtain a GPA of 2.00 or greater, and

(iv) complete the relevant requirements within a period of six consecutive academic years.

### Award of First Class

A student who is eligible for the BSc Hons Degree may be awarded First Class if he/she

(i) obtains grades of C or better in course units, including all the course units in the subject/subjects of specialization, aggregating to at least 126 credits, considered under (ii) of eligibility criteria,

(ii) obtains a GPA of 3.70 or greater,

(iii) obtains grades of A or better in level 4 course units in the subject/subjects of specialization, aggregating to at least half the number of credits accumulated in such course units,

(iv) obtains grades of A or better in level 4 and level 3 course units where applicable, in the subject/subjects of specialization, aggregating to at least half the number of credits accumulated in such course units, and

(v) completes the relevant requirements within four consecutive academic years.

**Note:** A student who obtains grades of D/D+/C- aggregating to not more than 6 credits in level 4 course units, but fulfils all the other requirements stipulated above may be considered by the Board of Examiners for the award of Second Class (Upper Division).

### Award of Second Class (Upper Division)

A student who is eligible for the BSc Hons Degree may be awarded Second Class (Upper Division) if he/she

(i) obtains grades of C or better in course units, including all the course units in the subject/subjects of specialization, aggregating to at least 116 credits, considered under (ii), of eligibility criteria

(ii) obtains a GPA of 3.30 or greater,

(iii) obtains grades of B or better in level 4 course units in the subject/subjects of specialization, aggregating to at least half the number of credits accumulated in such course units,

(iv) obtains grades of B or better in level 4 and level 3 course units where applicable, in the subject/subjects of specialization, aggregating to at least half the number of credits accumulated in such course units, and

(v) completes the relevant requirements within four consecutive academic years.

**Note:** A student who obtains grades of D/D+/C- aggregating to not more than 6 credits in level 4 course units, but fulfils all the other requirements stipulated above may be considered by the Board of Examiners for the award of Second Class (Lower Division).



### Award of Second Class (Lower Division)

A student who is eligible for the BSc Hons Degree may be awarded Second Class (Lower Division) provided he/she

- (i) obtains grades of C or better in course units, including all the course units in the subject/subjects of specialization, aggregating to at least 116 credits, considered under (ii) of eligibility criteria,
- (ii) obtains a GPA of 3.00 or greater,
- (iii) obtains grades of B or better in level 4 course units in the subject/subjects of specialization, aggregating to at least half the number of credits accumulated in such course units,
- (iv) obtains grades of B or better in level 4 and level 3 course units where applicable, in the subject/subjects of specialization, aggregating to at least half the number of credits accumulated in such course units, and
- (v) completes the relevant requirements within four consecutive academic year



## 16. Course units empowering Soft/life skill development of Biological Science undergraduates

### Professional Placement - PRPL 31992

A course unit introduced into the BSc curriculum in order to improve student exposure to real world of work. Biological Science undergraduates are encouraged to follow this unit under the interested subject discipline.

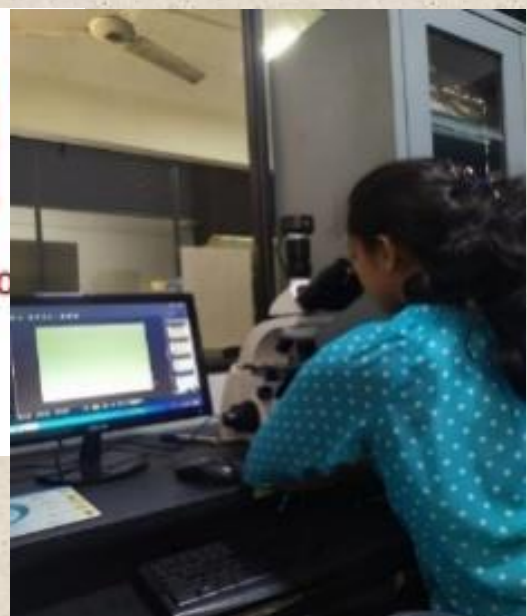
Student engagement in industry exposure in the world of work.....



NATIONAL AQUATIC RESOURCES RESEARCH  
AND  
DEVELOPMENT AGENCY  
MINISTRY OF FISHERIES AND AQUATIC RESOURCES







# National Plant Quarantine Service Department of Agriculture





## Industrial Training in Microbiology - MIBI 32556

A Course module specific for undergraduates following Microbiology as a subject.....

Job placements, world of work exposure, skill development are added benefits of following this course module.

The Department of Microbiology offers the 'Industrial Training in Microbiology' course module to year 3 (semester II) undergraduates, who are following 'Microbiology' as a subject for their degree programme. This course has been designed with the aim of enabling the students to apply their theoretical knowledge and laboratory skills obtained through all the other MIBI course modules offered in years 1, 2 and 3 (semester I), in microbiology-related industries.

Undergraduates are given the opportunity to carry out their training in a relevant industry/institute/ organization approved by the department for an approximate period of ~ 500 hours under the supervision and guidance of an academic staff member of the department. The training, not only helps the undergraduates to integrate their theoretical and practical knowledge to solve real world problems in relevant industries, but also expose them to diverse learning environments empowering their social and cultural values, as well as their generic soft skills.

Since the inception of this course module, country's many leading pharmaceutical, biotechnological and food industries, as well as service-providing institutes in both state and private sector, are continuously collaborating with the department to provide fulfilling training experience for our undergraduates.



## 17. Learning Resources



### **Information and Communication Technology Centre (ICTC)**

UoK has a central ICT Centre located in the FoS premises. It comprises of 7 computer laboratories, 117 Wi-Fi access points with 1800 mbps network speed ensuring free Wi-Fi for all the students of UoK. ICTC provides local area network connectivity with internet services to UoK students and staff. It also functions as information technology (IT) education and technical resource center to supplement academic programmes offered by the faculties. ICTC designs and offers various certificate training courses for internal and external students and also offers e-learning/web-based learning resources and services to academic staff and students. Computer Assisted Learning (CAL), Virtual Private Networking (VPN), Kelani mail, Kelani net login, are centralized through ICTC. Teaching and Learning tasks as online tests, assignment submission, posting common notices, uploading learning materials & handouts are carried out through LMS/CAL system.

### **Department computer laboratories**

Computer laboratory with Wi-Fi facility is available for student learning and assessment in some study departments.





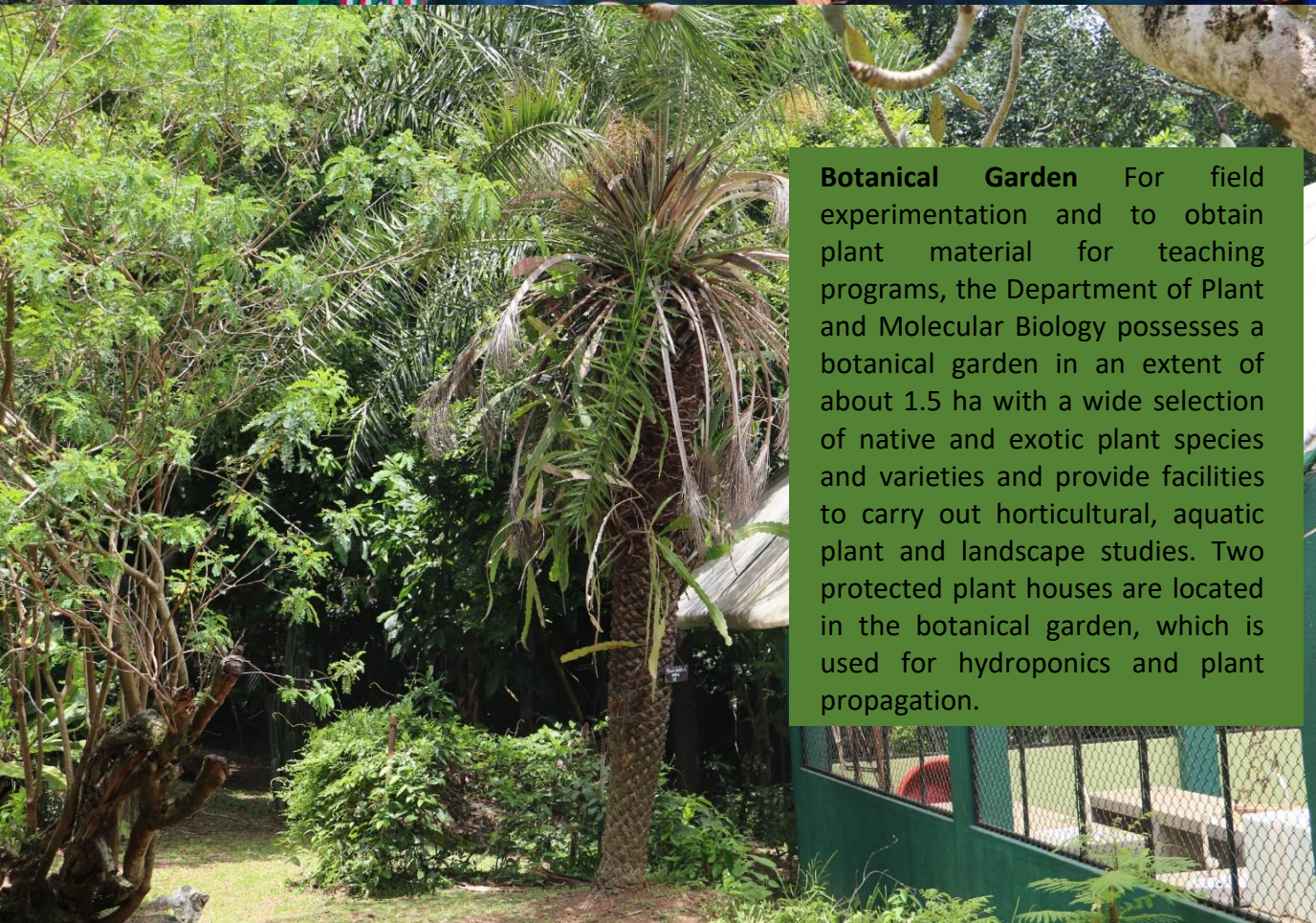
## Library

The main library consists of a reference section, and a periodicals section each with seating capacity for 600 and 100 readers respectively. Currently, library subscribes to 29 foreign academic journals and 20 local journals. It is well-stocked totaling to 248078 books and a collection of post-graduate thesis. Library is also equipped with VPN access, IMF-e-library and an e-repository, and e-books. All the recommended books in BSc curriculum are available for student reference in the main library. Additionally, a post-graduate (PG) library is located at FoS premises and caters its services for postgraduate and honours students of FoS.



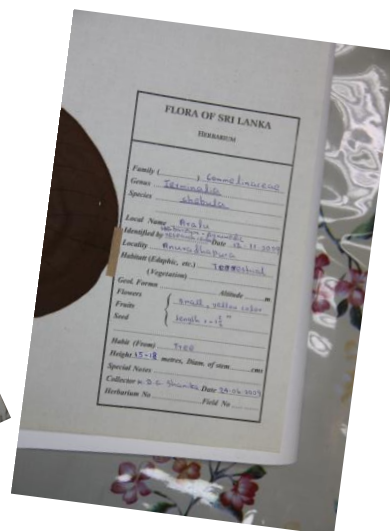


**Department of English Language Teaching** UoK has an expanded and strengthened Department of English Language Teaching (DELT) under the Faculty of Humanities. DELT offers on-line English placement test during orientation programme for the new students. It also offers two compulsory English language course modules/units in order to improve English language of BSc undergraduates. The department possesses a Language Learning laboratory equipped with English Language Teaching/Learning resources. DELT also offers certificate courses in Modern languages (English) for undergraduates.



**Botanical Garden** For field experimentation and to obtain plant material for teaching programs, the Department of Plant and Molecular Biology possesses a botanical garden in an extent of about 1.5 ha with a wide selection of native and exotic plant species and varieties and provide facilities to carry out horticultural, aquatic plant and landscape studies. Two protected plant houses are located in the botanical garden, which is used for hydroponics and plant propagation.





**Herbarium** Department of Plant and Molecular Biology maintains a herbarium which includes about 4000 wet and dry preserved specimens. The herbarium collection covers most of the important tropical plant families, lichens, algae, bryophytes and ferns found in Sri Lanka. Herbarium specimens prepared by Botany honours students each year results in the gradual enrichment of the herbarium.



**Museum/Zoological specimen collection** Department of Zoology and Environmental Management maintains a rare specimen collection and models as supplementary for Zoology subject practical sessions.

**Microbial Culture Collection Center (MCCC)** MCCC at the Department of Microbiology act as a center to supply reference microbial cultures (Bacteria, Molds, Yeasts) for student research and to provide related services to the scientific community working in research institutions, universities and industries. All microbial cultures are originally purchased from world recognized culture collections and maintained at the center



## Central Equipment Lab

Faculty of Science, University of Kelaniya.

### Central Equipment Laboratory (CEL)

CEL located at FoS facilitates sharing of more than 15 sophisticated equipment for research activities of undergraduate and postgraduate students of FoS on request.



## Research and Services Centre

Faculty of Science, University of Kelaniya.

### Research and Services Centre (RSC)

RSC facilitates and promotes research and development activities of the FoS, commercialization of research products and upgrading research skills of the undergraduates and postgraduates through organizing workshops, training programmes, research colloquia.

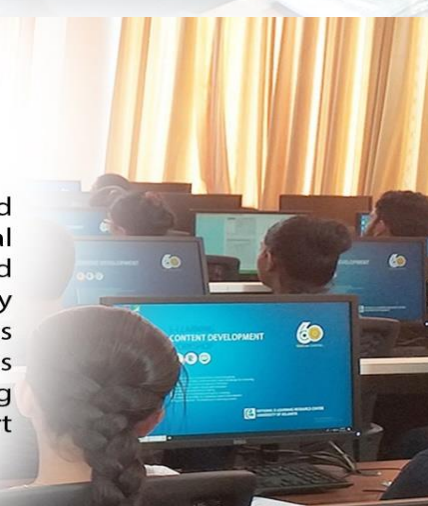


## Technology and Innovation Support Center

University of Kelaniya, Sri Lanka

### Technology and Innovation Support Centre (TISC)

TISC in the university is a joint project of the university and the World Intellectual Property Organization (WIPO) and National Intellectual Property Office (NIPO) of Sri Lanka. TISC in the university is designed to give university staff easy access to locally based, high quality technology information and related services. TISC nurtures innovation, and encourages entrepreneurial talents among students and faculty. The TISC also offers a range of opportunities including mentoring, networking opportunities and regular events to support enterprising students.





## 18. Student Support Systems and Management

### Sports and Recreational Facilities

University of Kelaniya operates fully equipped sports and recreational facilities including indoor gymnasium under the Physical Education Department aiming for healthy minds and energetic bodies in students and staff.



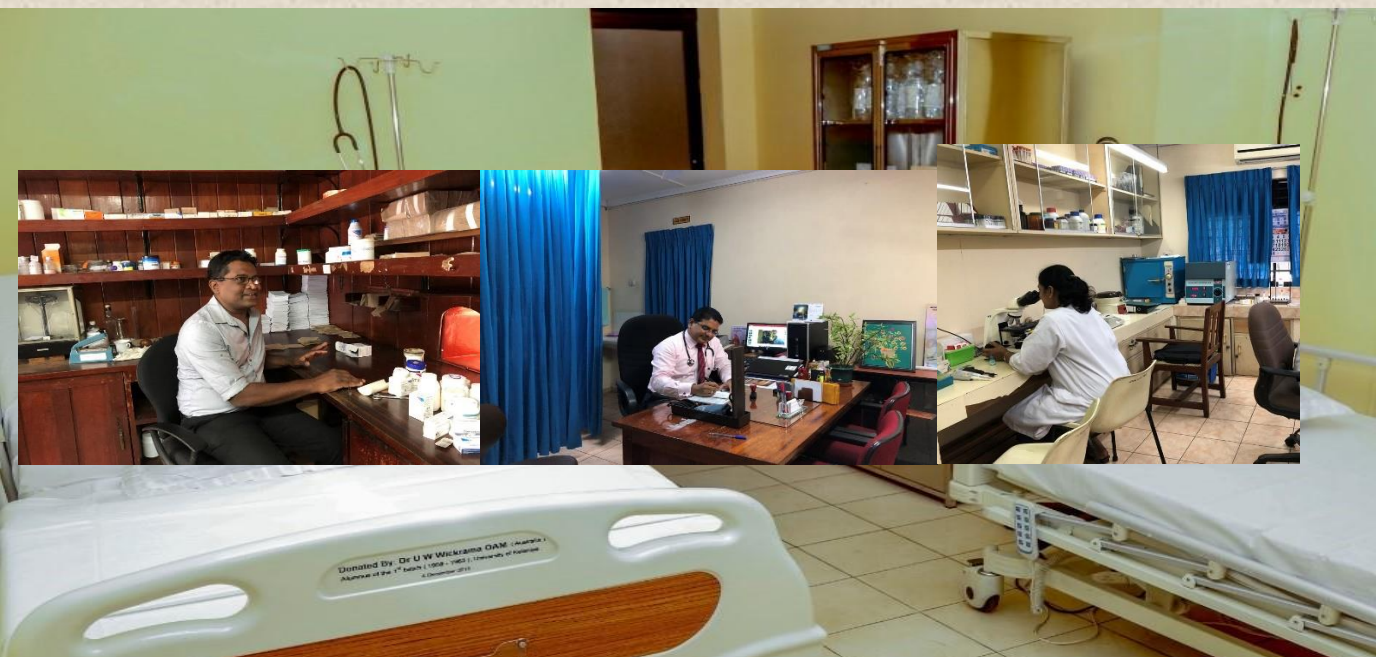
**Career Guidance Unit:** Career Guidance Unit of UoK comprises of a career guidance Director, four academic counsellors and two career counselors. This unit offers various career development programme, and learning programmes throughout the undergraduate career and provide opportunities for students to prepare themselves for the 'world of work'. The programmes include providing academic counselling services and learning information to pursue personality development providing career related information and arranging graduate placement opportunities through a career fair that will help graduates to find employment in the state and the private sector.

**Welcome to Career Guidance Unit**  
University of Kelaniya

**Our Services**

- › Counselling and Advising on Careers
- › Employability Skills Enhancement
- › Networking with Industry
- › Availing Work Experience
- › Graduate Placement
- › Entrepreneurship Skills Development
- › Training Research and Development
- › International Academic Relationship
- › Outward Bound Training (OBT)
- › Communication Skills
- › Student Clubs
- › Industrial Visits
- › Industrial Training
- › Corporate Meetings
- › Soft Skills Development

0112917711 / 0721205653 | careers@kln.ac.lk | Career Guidance Unit University of Kelaniya



**Medical Centre** UoK has an in-house Medical Centre with qualified medical staff and a Public Health Officer to provide routine healthcare services and 24 hour emergency/ambulance services. In instances where special medical care or emergency medical care is needed, the students needing specialized healthcare are referred to North Colombo Teaching hospital, Ragama.

**Residential/hostel Facilities** UoK provides residential facilities for almost all students. Some students prefer to stay in private places as sufficient residential facilities are available outside the university. If a student is provided with accommodation in the university residential hall, the fee is very nominal for the period of stay. Most of the residential facilities include cafeteria services and cooking facilities for those who wish to prepare their own meals.

**Cafeteria/canteen** Five canteens operate at UoK Dalugama premises. Meals are available at subsidiary rates.

**Postal facilities, Banking facility and PET machine** Sub-Post office is located at closer vicinity to FoS premises to serve the community of UoK. Two PET machines served by Peoples' Bank are located at closer vicinity to FoS premise for students and others to use.

**Student counselling** UoK/FoS conducts an improved counseling and mentoring process through the senior student counsellor/FoS and student counsellors to all students.

**Personal Tutoring** Every student of FoS are given a permanent academic staff member as his/her personal tutor to provide high standards of academic and pastoral support.





**Kalana Mithuru Sevana – Personal Counselling Service:** Kalana Mithuru of UoK comprises a director and two counsellors each from a faculty. This facilitates the counselling of students of UoK. Those who require critical personal counselling are directed to Kalana Mithuru Sevana for further attention.



**Coordinating Centre for Students with Disabilities (CCSD):** This Centre coordinates facilitates required for the differently able students; with different types and degrees of disabilities such as blind or partially sighted, deaf or hard of hearing, limited manual skills, limited mobility, speech impaired and those with hidden disabilities like fatigue and pain studying in the university.

If you are a student with a temporary or permanent disability, staff are available to meet with you to discuss the support you may need for your study. The working committee will work with you to identify any adjustments, services and recommendations that will assist the University to meet your study needs.

Contact Kalana Mithuru Sevana



*The Gold Medals were awarded by the  
Alumni Association of the Faculty of Science  
at the convocation to special degree students who excelled and having  
the highest GPA  
in Botany,  
Environmental Conservation & Management,  
Chemistry, Computer Science, Computer Studies ,  
Management and Information Technology,  
Mathematics, Microbiology,  
Molecular Biology & Plant Biotechnology,  
Physics, Statistics, Zoology.*



**Alumni Association of Faculty of Science and University Alumni Association:** Science Faculty Alumni closely interact with the FoS for its student betterment and uplift the science education as a national need through school teachers training programmes and community projects. Best performing needy students of the FoS are offered scholarships through both associations. Gold medals for best students of science disciplines are offered by Faculty Alumni at the convocation.

**Student Union:** Faculty student Union functions under the patronage of the Senior Student Counsellor of FoS.

**Student welfare and common support system unit:** The General Administration of UoK provides administrative facilities related to student admission, maintenance and utility services, security and other general matters. Student Welfare Division provides facilities related to residential, bursary, canteen facilities and student societies under the purview of SAR/Student-welfare and Director/Student-Welfare.

**Security and Safety:** All students are ensured a safe environment through the University Security Service network which functions throughout the 24 hours. The internal and private security of the university join hand to perform their duties under the guidance of the Chief Security Officer. The students' conduct and discipline are carefully scrutinized by the University Marshals.

## 19. Academic Advisory Service - Biological Science

Senior Academic Advisor  
Biological Science Study Stream



**Professor Deepika Amarasinghe**

Department of Zoology and  
Environmental Management

Room: B1 209  
0774104947  
From 8.00 am - 4.00 pm  
Monday - Friday

e-mail to contact Senior Academic  
Advisor for e-registration of course  
units for 2018/2019

1<sup>st</sup> year students [bsregis@kln.ac.lk](mailto:bsregis@kln.ac.lk)

2<sup>nd</sup> year students [bs2017@kln.ac.lk](mailto:bs2017@kln.ac.lk)

3<sup>rd</sup> year students [bs2016@kln.ac.lk](mailto:bs2016@kln.ac.lk)

4<sup>th</sup> year students [sp2015@kln.ac.lk](mailto:sp2015@kln.ac.lk)

## Departmental Academic Advisors



**Dr. Deepthi Gunasena**

Department of Microbiology

Email - [deepthi@kln.ac.lk](mailto:deepthi@kln.ac.lk)

Room: B1 209

Phone - 0112903323

Mobile - 0774104947

Room: B1 209



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Department of Chemistry

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Room No - B2 202/1

Phone - 0112903273

Mobile - 0712789141



## Dr. Russel De Silva

Department of Chemistry

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Room No - B1 004/4

Phone - 0112903271

Mobile - 0778297064



## Dr. Harshini Herath

Department of Plant and  
Molecular Biology

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Room No - B1 307/1

Phone - 0112903224

Mobile - 0701168047



## Dr. Mangala Yatawara

Department of Zoology &  
Environmental Management

Email - mmkyat@kln.ac.lk

Room No - B1 317/1

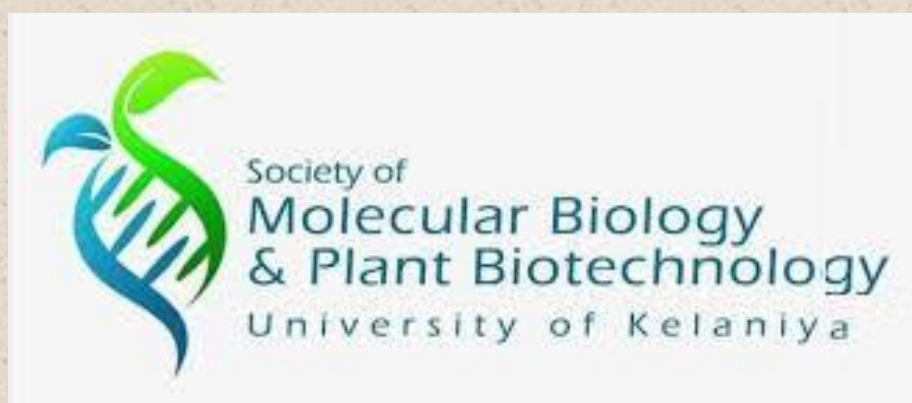
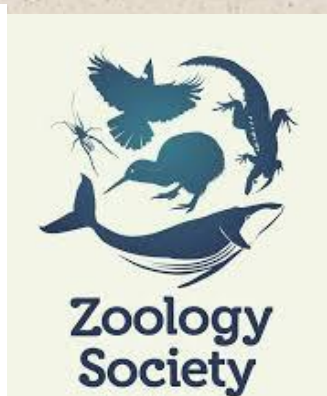
Phone - 0112903407

Mobile - 0728885666 072645292

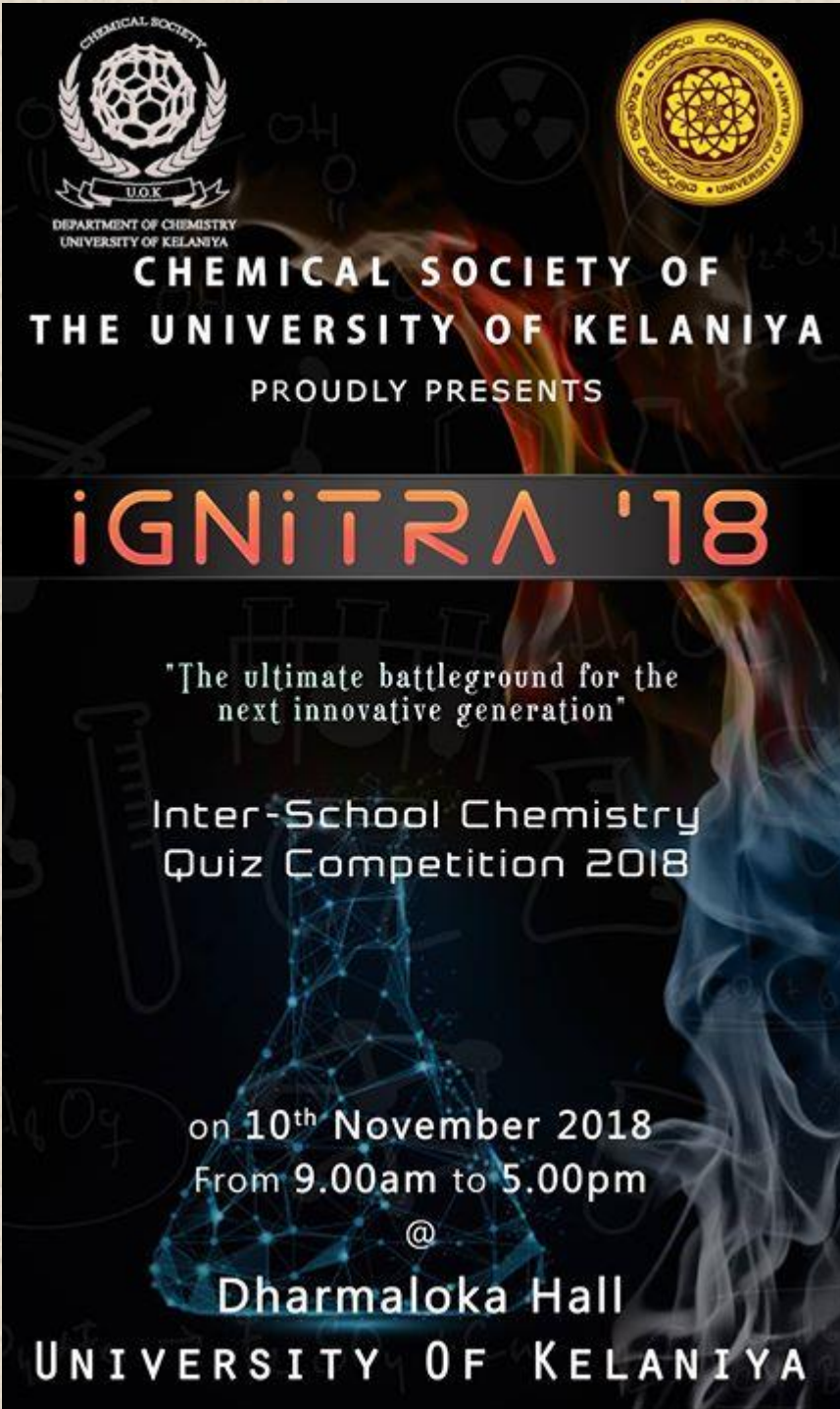




## 20. Subject Societies - Biological Science

There are six subject societies each function under a senior academic member serving as the Senior Treasurer from the respective Department.



## Highlights.....



**CHEMICAL SOCIETY OF  
THE UNIVERSITY OF KELANIYA**  
PROUDLY PRESENTS

# IGNiTRA '18

"The ultimate battleground for the  
next innovative generation"

Inter-School Chemistry  
Quiz Competition 2018

on 10<sup>th</sup> November 2018  
From 9.00am to 5.00pm  
@  
Dharmaloka Hall  
**UNIVERSITY OF KELANIYA**

Don't let Diabetes  
**DERAIL**  
your life.



## Diabetes Awareness Program

**Venue:**  
**The lobby**

Check your blood sugar level just for rs. 50.00  
Free for cleaning staff

Organized by: Society Of Biochemistry



please join with us

# අත්වැල 2019

Society of Biochemistry University of Kelaniya





# BOTANY SOCIETY

## UNIVERSITY OF KELANIYA

### OFFICE BEARERS 2019



**President**  
K.T.P.Y. Rangana



**Secretary**  
C.P.T.T. Dewpamali



**Vice President**  
W.N. Mallawarachchi



**Vice Secretary**  
D.M.C.S.L. Disanayaka



**Editor**  
H.D.U.N.S. Senarathna



**Editor**  
V. Bodhinarayana



**Junior Treasurer**  
M.Y.M. Senevirathna

#### 3<sup>rd</sup> Year Committee Members



H.A.P.D. Jayasekara



N.L.A. Prabodani



B.A.P.S. Nadeeshani



W.A.D.A.D. Weerapperuma

#### 2<sup>nd</sup> Year Committee Members



D.M.N.N.M. Dahanayaka



G.I. Kalanika



K.S.J. Ekanayaka



H.N.M. Gunasekara

#### 1<sup>st</sup> Year Committee Members



V.K.A.M.D. Kuruppu



K.N. Sandanayake

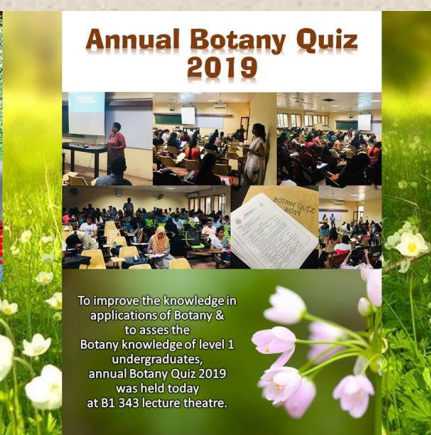
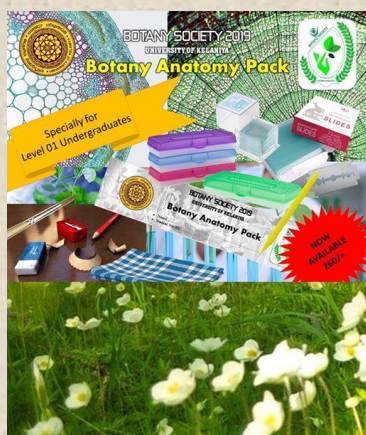
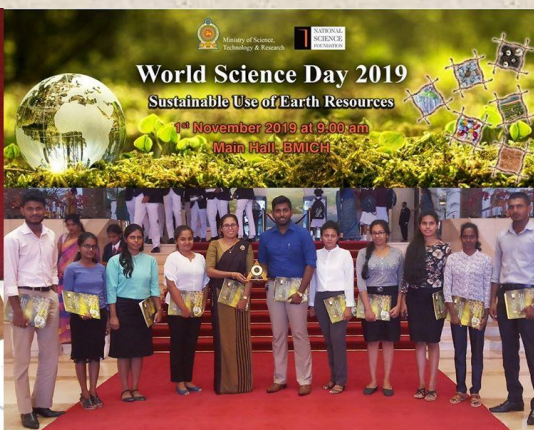


K.D.A.D. Chandrasena



M.G.G.S. Nawodani







# "Brand yourself with Rex Pitiyage"

Skill Development & Personal  
Branding Programme

Organized by

**The Society of Molecular Biology &  
Plant Biotechnology**

"You are a winner when  
you believe in yourself "

At Multimedia Room, IM Department

**Rex Pitiyage**

Skill Development Specialized Trainer



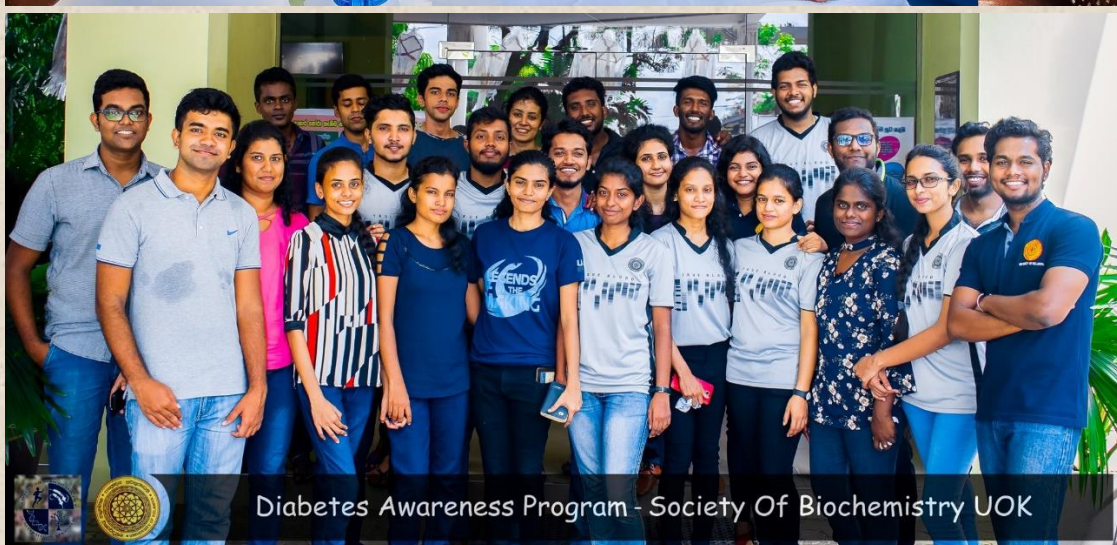
Society of Molecular Biology & Plant Biotechnology - Department of Botany  
University of Kelaniya



Contact: 0713782260 (Tharusha)









## 21. Awards, Prizes and Scholarships



### Scholarships

#### **Professor J.K.P. Ariyaratne Memorial Scholarship**

This is awarded to the student who obtains the highest GPA for level one compulsory course units in Chemistry in the Bachelor of Science degree programme.

#### **Professor H.H. Costa Memorial Scholarship**

This scholarship is awarded to an undergraduate from Kurunegala District who follows courses in the Biological Science stream and receives the Mahapola Scholarship. Preference will be given to the students following Zoology as a subject.

#### **Agnes Peduru Parent Felicitation Scholarship**

This is awarded to a student who gets the highest marks for the first year degree programme in Medicine or in Science. Preference will be given to low income students.





## Gold Medals

**Gold medals are awarded to graduates with First Classes**

### **Professor J.K.P. Ariyaratne Gold Medal**

This is awarded to the student who has followed Chemistry as a main subject for BSc Degree Programme and obtained a First Class with the highest GPA for course units in the subject, Chemistry.

### **Professor I. Balasooriya Memorial Gold Medal**

Two Gold Medals are awarded to two students who has followed subject Botany and Molecular Biology & Plant Biotechnology in the BSc Degree Programme and obtained a First Class with highest GPA for course units of the respective subject.

### **Professor H.H. Costa Memorial Gold Medal**

This Gold Medal is awarded by the academic staff of the Department of Zoology and Environmental Management to the graduate who has followed the BSc Honours in Zoology Degree Programme and obtained the highest GPA with a first Class.

### **Sarojani Jayawardana Memorial Gold Medal**

This Gold Medal is awarded to the graduate who obtains the highest GPA for BSc Honours in Microbiology Degree Programme with a First Class.

### **Faculty of Science Alumni Association Gold Medals**

**Seven Gold Medals are awarded to Biological Science Honours graduates who have obtained the highest GPA for following degree programmes with a First Class.**

Bachelor of Science Honours in Biochemistry degree Programme

Bachelor of Science Honours in Botany degree Programme

Bachelor of Science Honours in Chemistry degree Programme

Bachelor of Science Honours in Computer Studies degree Programme

Bachelor of Science Honours in Microbiology degree Programme

Bachelor of Science Honours in Molecular Biology & Plant Biotechnology degree Programme

Bachelor of Science Honours in Zoology degree Programme

### **Most Ven. Yakkaduwe Sri Pannaarama Thero Memorial Gold Medal awarded by the Alumni Association of the University of Kelaniya**

This Gold Medal is awarded to the graduate who followed BSc Honours Degree programme offered by the Faculty of Science and obtained the highest GPA with a First Class.

### **Rathmalane Sri Dharmaloka Nayake Thero Memorial Gold Medal awarded by the Alumni Association of the University of Kelaniya**

This Gold Medal is awarded to the graduate for the best performance at the Bachelor's Degree Examination among all the faculties.

## **Prizes**

### **Financial award by the Botany Society**

This is awarded to the student who obtains the highest GPA for the first and second year examinations relevant to Botany course units.

### **Financial award by the Sarojani Jayawardhana Memorial Fund**

This is awarded to the student who obtains the highest GPA and a First Class for the subject Microbiology in the BSc Degree Programme.

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## 22. Dean's List



To be included in the Dean's List, a student is required to,

- I. accumulate a minimum of 27 credits in the relevant academic year,
- II. obtain grades of C or better for all the course units registered in the relevant academic year,
- III. obtain a level GPA of 3.70 or better in the relevant academic year,
- IV. obtain grades of A or better in course units aggregating to at least half the number of total credits for the course units considered under (ii)

A student who has been subjected to any disciplinary action during his/her university career will not be eligible for the Dean's list.

Dean's list will be published in the Faculty Website along with the criteria used with the approval of the Faculty Board of Science. Placement on a Dean's list will be noted in the student's transcript. A certificate of recognition will also be issued by the Dean of the Faculty of Science. Faculty Board of Science reserves the right to review the criteria at any time.



## 23. Faculty Awards

Most students, who enter the Faculty of Science, are engaged in various activities and demonstrate exceptional talents. These activities enrich students experience and help them to build confidence.

Hence, The Faculty of Science wishes to initiate an award scheme to recognize students for their outstanding performances, in innovation, leadership, sports and aesthetic abilities. This will help to empower them and help them to recognize their potential. These awards will give them confidence and assist them in their career progression.

Students not involved in any type of disciplinary action **qualify to apply for these awards at the end of each academic year and the Dean will announce the call of application and the deadline to submit the applications.** Undergraduates registered at the Faculty of Science are eligible to apply.

# 1. Leadership Award

The Undergraduate Leadership Awards recognize students who demonstrate exceptional leadership involvement/skills through university and community activities while maintaining satisfactory academic standing in full time academic work.

## Eligibility

- Minimum GPA 3.00
- Full time students who have completed all registered course units.
- A Detailed report with proof explaining the contribution of the respective student should be submitted with the recommendation of the Senior Student counsellor, Senior Treasurer of respective Society and Head of relevant Department, Dean of the Faculty
- One students from year 1 and year 2 and final year will be selected.

## Marking Scheme

40% GPA 60% leadership activities. A minimum score of 60% must be secured by any recipient to qualify for the award.

i	GPA 3.7 and above	40 marks
	3.30 - 3.69	30 marks
	3.00 - 3.29	20 marks
ii	<b><i>President of Society, Union or Club</i></b> -	10 marks*
iii	<b><i>Secretary</i></b> -	08 marks*
iv	<b><i>Vice president</i></b> -	03 marks*
v	<b><i>Editor</i></b> -	03 marks*
vi	<b><i>Junior Treasurer</i></b> -	03 marks*
vii	Direct participation in organizing an event	10 marks
viii	Captain/Vice Captain of university sports teams full time	20 marks
ix	Leading a team for interfaculty team other than sports	10 marks
x	Member of any community activity	03 marks
xi	Resource person in community activity	10 marks

***\*(iii - vi Senior Treasurer of the respective Society or Club must give a recommendation that the candidate qualify to be considered for the award)***  
***(vii – xi Documentary evidence (proof) should be provided)***

## 2. Student Research Award



Research Award is to recognize and encourage students to engage in research during their undergraduate career. From BSc Degree Programme, 03 students will be selected.

### Eligibility

- Minimum GPA 3.00
- Full time students who have completed all registered course units.
- A Detailed report with proof explaining the contribution to research and development should be submitted with the recommendation of a Senior Academic staff member.

### Marking Scheme

40% GPA 60% activities. A minimum score of 50% must be secured by any recipient to qualify for the award.

GPA 3.70 and above	40 Marks
3.30 - 3.69	30 Marks
3.00 - 3.29	20 Marks

Abstract published in undergraduate Research symposium (peer reviewed) proceedings	05 marks
Full paper in peer reviewed journal	20 marks
Conference proceedings (peer reviewed)	15 marks
Abstract in International conference	10 marks
Review article (peer reviewed)	15 marks
Non referred article	03 marks



### 3. Best Inventor/Entrepreneur Award



This award will be made to recognize and encourage students to engage in innovations and entrepreneurship during their undergraduate career.

#### Eligibility

- Minimum GPA 3.00
- Full time student who have completed for all registered course units.
- A Detailed report with proof explaining the contribution should be submitted with the recommendation of a Senior Academic staff member.
- Open to all BSc and BSc Honours undergraduate students (Level 1, 2,3 and 4,)

#### Marking Scheme

40% GPA 60% activities. A minimum score of 70% must be secured by any recipient to qualify for the award.

GPA 3.00 and above	40 Marks
Patent (local)	30 Marks
Patent (International)	40 Marks
License	30 Marks
Registered enterprise	30 Marks

## 4. Outstanding Sports Performance Award



### Eligibility

- Minimum GPA 3.00
- Full time students who have completed all registered course units.
- Candidates who have won university colours in one sport.

**Who has brought honour to the Faculty other than sports by winning inter university competitions and competitions conducted by professional bodies and private companies for undergraduates of universities e.g IEEE, Royal society of chemistry, google hackathon etc,**

### Eligibility

- Minimum GPA 3.00
- Full time students who have completed all registered course units.
- Open to all reading for BSc and BSc Honours degree programmes (Level 1, 2,3 and 4,)

### Marking Scheme

40% GPA 60% activities. A minimum score of 70% must be secured by any recipient to qualify for the award.

GPA 3.00 and above	40 Marks
Member of a team selected for final round	20 Marks
Member of a runner up team	25 Marks
Member of a winning team	30 Marks



## 5. Award for outstanding performance in dance, music, fashion, handwork, art and craft



### Eligibility

- Minimum GPA 3.00
  - Full time students who have completed all registered course units.
  - Open to all reading for BSc and BSc Honours degree programmes (Level 1, 2,3 and 4,)
  - Outstanding achievements in aesthetic disciplines /competitions will be recognized.
- 
- ❖ All award recipients will be given a certificate for their outstanding performances and the list will be displayed on the Faculty webpage.
  - ❖ Irrespective of the category of the award, good discipline, integrity and good academic standing will be considered. The decision of the Faculty Board awards committee will be final.
  - ❖ In the event a candidate has provided false data the Faculty Board reserve the right to revoke the award.

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## 24. Frequently Asked Questions

Q. Do I have to register for MGMT 12022 in semester 1 of my first year?

A. You have a choice of registering for MGMT 11022 either in 1<sup>st</sup> year or in 2<sup>nd</sup> year.

Q. Since I am registered for Management Theory and Practice IMGT 14512 course offered by the Department of Industrial Management, can I drop MGMT 11022 Communication skills and Personality Development offered by the Faculty of Commerce and Management Studies?

A. No. MGMT 11022 is a compulsory course unit for biological science students.

Q. What are the benefits of following auxiliary subjects during the BSc degree programme?

A. Course title appears in the transcript as you have followed it to improve the relevant skills. Able to consider calculating total non-subject credits earned during the academic years.