

## ROUND 2A

University: Jaffna

Faculty: Science

Department: Zoology


### The following personnel are allocated for the activities:

Activity Coordinator (Activity I and IV) : Dr. Kanapathy Gajapathy

Activity Coordinator (Activity II and III): Mrs. Pratheepa Sivakumar

Activity Coordinator (Activity V) : Dr. Mrs. Abyerami Sivaruban

The detail are given below:



Activity		Sub-activity		Intermediate outcome Indicator	outcome Indicator
1	<b>Enriching the teaching and learning environment for students and staff</b>	1.1	Strengthening the learner-centered teaching and learning environment for students and staff through digital based training of the bio informatics related third year Zoology courses.	Number of students and staff trained on digital based teaching, learning and assessment on bio informatics in Zoology  ( Number of 3 <sup>rd</sup> year special degree students : 4; number of academic staff: 12)	Number of courses adopting digital based teaching , learning and assessment practices  (Out of 16 special degree courses, 7 courses have bioinformatics related application and/or components).
		1.2	Developing infrastructure to facilitate digital based training by procuring specified equipment and other (Video conference kit	Establishment of Bioinformatics laboratory and expansion of e - based conference hall to provide digital based training.	

			computers, desk chairs required for Digital Based Teaching Learning and Assessment training)		
		1.3	Purchasing Zoology and molecular biology related text books, journals, and e – books to establish a resource centre.	Establishing a recourse centre with special collection of books, journals, and e – books to conduct assignments. (Students will be given assignments where they will be using the facility established in this subsection. These assignments [ICA] will be part of the final marks for these courses)	
2	<b>Introducing new courses and upgrading facilities of lab and museum to support learning activities for these courses.</b>	2.1	Introducing recognized courses with current trends such as “Advanced Physiology and Molecular Biology”; “Integrated Coastal Management”, “Economic Zoology” and “Laboratory and museum techniques”.	Number of new courses introduced aligned with current trends approved by the Faculty board and senate.	Number of students getting employment within 6 months from the last date of the examinations.  (Number of. of 4 <sup>th</sup> year Zoology special student: 13, and we expect 10 Zoology special students. I the next batch).
		2.2	Procuring laboratory equipment (storage cabinets, dry cabinets, Ice forming machine, Milli Q water plant, microscopes (including the facilities for differently abled students) to upgrade laboratories.	Refurbished physiology and general laboratories to support new courses that were introduced (see 2.1)	
		2.3	Procuring items for the museum such as exhaust fans, racks glass	Refurbished departmental museum to enhance animal specimen storage facilities for the animal	

			<p>wares and chemicals for the museum to facilitate learning and evaluation process-</p> <p>(All zoology courses deal with animal specimens. Thus it is necessary for any natural science course to have a well- established museum where these specimen are stored for learning purpose. Therefore improving storage facilities in the museum is an utmost requirement to support the learning process by providing first hands experience of the biological specimen for the students).</p>	specimen handling and learning processes.	
3	<b>Enriching the curricula in line with strengthening research.</b>	3.1	Introducing short term training or training workshops on herpetology, water quality analysis, marine biology or aquaculture for special degree students	Number of special degree students underwent training courses/ workshops. (Number of special degree students in the 3 <sup>rd</sup> year: 4 and 4 <sup>th</sup> year: 13).	Number of staff student collaborative research published in regional, national and international conference proceedings, or in peer reviewed journals.
		3.2	Short term training for academics on selected fields (water quality analysis, marine biology or aquaculture) and non-academic staff on laboratory techniques	Two master trainers (academic and non-academic) learned training course or workshop or research programme on water quality analysis, marine biology or aquaculture.	
		3.3	Introducing staff - student collaborative group research for the general degree students	Number of general degree students engaged in research.  (We expect 3 <sup>rd</sup> year general degree students as	

				50; The research report is a compulsory component and its marks will be taken as ICA. Currently the general degree students do not have a research component in the curriculum and this is felt as a draw back).	
4	<b>Developing English language for the special degree students</b>	4.1	Introducing English language training course for scientific writing and presentation in Zoology for honours degree students	Number of students underwent the English course.	<b>Number of</b> students showing an improvement by getting C+ or above in the Science Communication in English.
		4.2	Introducing individual or group presentation and viva components as mandatory elements in 3 <sup>rd</sup> and 4 <sup>th</sup> year courses.	Number of course units adapted the mandatory elements as the assessment methods  (50% of the courses adopted these assessment methods. - 16 special degree courses in 3 <sup>rd</sup> year and 15 in 4 <sup>th</sup> year).	(We expect 10 Zoology special students. By conducting assessments before and after the English course; a comparison will be done ).
5	<b>Development of socio-emotional skill among students</b>  (The students socio-emotional skills will be evaluated before and after this activity through a structured questionnaire and/or student	5.1	Exposing students for the new courses with other Universities in Sri Lanka.	Number of courses enrolled by Zoology students  (Students will be asked to follow a course from other Universities (University of Kelaniya and Eastern University. Care will be taken that both the University students will study together. The expected time duration will be two weeks per course tentatively).	Number of students getting employment or doing post` graduate studies within 6 months of the last date of the examinations.  (Number of. of 4 <sup>th</sup> year Zoology special students: 13).

	feed back).				
		5.2	<p>Introducing industrial exposure for the final year students for selected courses (aquaculture, conservation biology, GIS for the environmental management, ecotourism , bio nanotechnology)</p>	<p>Number of students entered for the training / internship programme.</p> <p>(Jaffna University has a standard student evaluation form where different tools like student diary, work output, commitment, and interaction with other staff will be measured. In addition student's performance will be evaluated by a responsible person of the Industry along with an academic staff as well).</p>	
		5.3	<p>Number of Procurements for the accessories and other essential facilities such as movable desks, chairs, poster stand for the group activities.</p> <p>(By the end of group based out-reach and community based activities, students should give written reports along with an oral examination. The mark will be computed in the Final Exam to reflect in the GPA. For example students will be given group assignment to interact with farmers to study the pesticide application and its impact in the Environment under the Course Unit "Pest Management". Similar assignments will be provided under different course units).</p>	<p>Refurbishing student interaction space for social activities and skill development.</p>	

