

UNIVERSITY OF MUMBAI

No. UG/17 of 2014

CIRCULAR:-

The Principals of the affiliated Colleges in Science and the Heads of recognized Institutions concerned are hereby informed that the recommendation made by the Faculty of Science at its meeting held on 25th February, 2014 has been accepted by the Academic Council at its meeting held 4th March, 2014 **vide** item No. 4.68 and subsequently approved by the Management Council at its meeting held on 4th April, 2014 **vide** item No.8 and that in accordance therewith, in exercise of the powers conferred upon the Management Council under Section 54 (1) of the Maharashtra Universities Act, 1994 and the Ordinances 6114 and 6115 and syllabus as per the Credit Based Semester and Grading System for the Three Years Integrated B.Sc. (Interdisciplinary) degree programme is introduced, which is available on the University's web site (www.mu.ac.in) and that the same has been brought into force with effect from the academic year 2014-15.

MUMBAI – 400 032
1st July, 2014

Sd/-
Director, B.C.U.D.

To,

The Principals of the affiliated Colleges in Science and the Heads of Recognized Institutions concerned.

A.C/4.68/04/03/2014
M.C/8/04.04.2014

No. UG/17 -A of 2014

MUMBAI-400 032

1st July, 2014

Copy forwarded with compliments for information to :-

- 1) The Dean, Faculty of Science,
- 2) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 3) The Director, Board of Colleges and University Development,
- 4) The offg. Controller of Examinations,
- 5) The Co-Ordinator, University Computerization Centre.

Director, B.C.U.D.

AC 4/3/2014

Item no. 4.68

B.Sc. in Interdisciplinary Science

Eligibility: HSC Science from State Board of Maharashtra or its equivalent.

The basic frame work of the syllabus was explained. In this currently when any learner is admitted to First Year B.Sc. in our University selects any three science subjects and one foundation course. While taking admission to Second Year BSc any two subjects from among first year are selected and one foundation course. While in third year one subject from among the two from second year is selected and one applied component.

Thus the credit distribution per subject is as follows -

F.Y.B.Sc. (CBZ) group

Semester	Semester I				Semester II				Total Credits
Subjects	Chemistry	Botany	Zoology	Foundation Course	Chemistry	Botany	Zoology	Foundation Course	
Credits	6	6	6	2	6	6	6	2	40

S.Y.B.Sc. (BZ) group

Semester	Semester III			Semester IV			Total Credits
Subjects	Botany	Zoology	Foundation Course	Botany	Zoology	Foundation Course	
Credits	9	9	2	9	9	2	40

T.Y.B.Sc. Zoology

Semester	Semester V		Semester VI		Total Credits
Subjects	Zoology Main	Applied Component	Zoology Main	Applied Component	
Credits	16	4	16	4	40

Thus the learner earns for the major subject selected for third year i.e. Zoology 12 + 18 + 40 = 70 credits out of 120. Remaining 50 credits the learner earns with minor subjects.

The basic thoughts and understanding in the programme of BSc with interdisciplinary science is many or around 60 % students after their graduation leave higher education and enter in jobs. These jobs are in Government offices, Municipal Corporations, private companies or schools as teachers. Anywhere here they are absorbed as science graduates. Even when the students opt for management carriers they are considered as science graduates at entry level. Thus the specialization or the major subject does not have great relevance unless the students want to pursue the carrier in the field of research or higher education. Similarly those who enter in jobs of teachers find it difficult to teach other science subjects as required, than the subject of specialization, because they are not exposed to those branches of science. Same way in office jobs they find subjects like Accounts, Banking Finance, Computer Applications etc difficult. Similarly it is a requirement and request from UGC / Government to expose the students to subjects like women laws, child laws and other such subjects.

With all these requirements of job market University has decided to introduce the graduation course in science as BSc interdisciplinary science.

In this a learner can take **two subjects from science discipline at first year level**, from among these **one subject can** be selected at **Second Year** and the **same will be continued as major subject along with applied component for final year B. Sc.** The learner will earn 70 credits as explained in this subject like the existing system.

In first year instead of the **third subject and foundation course** the learner can opt any subject from the prescribed modules and as per the availability in the college / institute where admitted. These modules can be called as interdisciplinary courses.

At the **second year** level **instead of the second minor subject** and foundation course the learner can opt the **modules from the interdisciplinary courses**.

Thus the learner will earn 70 credits in the major subject as obtained by any student in current traditional method. The remaining 50 credits can be earned from the interdisciplinary courses. The modules of interdisciplinary courses can be from science branches or arts / commerce / law / fine arts branches.

Thus the modules can be from any science subject or other branches like Sociology, Political Science, Accounts, Finance, Law, EVS, Computer Science, Management Skills, Communication Skills, Music / Dance, NCC instead of Foundation Course or many more.

The structure of the course will be as follows

F. Y. B. Sc. SEMESTER I						
Course I	Course II	Course I	Course II	Course I	Course II	FC
Zoo	Zoo	Bot	Bot	ID	ID	ID
Zoo	Zoo	Bot	Bot	ID	ID	ID
Zoo	Zoo	Bot	Bot	ID	ID	ID
Pract	Pract	Pract	Pract	Pract	Pract	Pract
F. Y. B. Sc. SEMESTER II						
Course I	Course II	Course I	Course II	Course I	Course II	FC
Zoo	Zoo	Bot	Bot	ID	ID	ID
Zoo	Zoo	Bot	Bot	ID	ID	ID
Zoo	Zoo	Bot	Bot	ID	ID	ID
Pract	Pract	Pract	Pract	Pract	Pract	Pract
S. Y. B. Sc. SEMESTER III						
Course I	Course II	Course III	Course I	Course II	Course III	FC
Zoo	Zoo	Zoo	ID	ID	ID	ID
Zoo	Zoo	Zoo	ID	ID	ID	ID
Zoo	Zoo	Zoo	ID	ID	ID	ID
Pract	Pract	Pract	Pract	Pract	Pract	Pract
S. Y. B. Sc. SEMESTER IV						
Course I	Course II	Course III	Course I	Course II	Course III	FC
Zoo	Zoo	Zoo	ID	ID	ID	ID
Zoo	Zoo	Zoo	ID	ID	ID	ID
Zoo	Zoo	Zoo	ID	ID	ID	ID

Pract	Pract	Pract	Pract	Pract	Pract	Pract
T. Y. B. Sc. SEMESTER V						
Course I	Course II	Course III	Course IV	Course I		
Zoo	Zoo	Zoo	Zoo	AC		
Zoo	Zoo	Zoo	Zoo	AC		
Zoo	Zoo	Zoo	Zoo	AC		
Zoo	Zoo	Zoo	Zoo	AC		
Pract	Pract	Pract	Pract	Pract		
T. Y. B. Sc. V						
Course I	Course II	Course III	Course IV	Course I		
Zoo	Zoo	Zoo	Zoo	AC		
Zoo	Zoo	Zoo	Zoo	AC		
Zoo	Zoo	Zoo	Zoo	AC		
Zoo	Zoo	Zoo	Zoo	AC		
Pract	Pract	Pract	Pract	Pract		

Thus the learner while graduating can have one major subject with 70 credits, but along with the same will have knowledge of many other subjects with 50 credits.

Further if the learner with BSc interdisciplinary Science wish to pursue the education for higher studies, can get the admission for post graduation in the major subject in which the learner has completed the graduation. Similarly if the learner wish

to pursue the education in other science subject may do so by taking the admission in SYBSc with second subject opted at FYBSc level.

The course design and structure was very much appreciated by all and it was **approved unanimously** with sanction to put **forth in Academic Council**.

It was also decided to frame the syllabi of modules of each subject and also to request the other faculties to form the syllabi as per the requirement of the course.

Each BOS has to form the syllabi for the BSc interdisciplinary science programme in following manner.

- I. The syllabi of minimum one course and maximum two courses be framed.
- II. They will be called as Interdisciplinary modules ID – module.
- III. Course I can be opted at first year level and if the institute wish to offer the course of same subject at second year level, then Course II of the same subject can be given. But if the course of specific subject is not offered at first year level and is to be offered at second year then course I of the subject be offered.
- IV. Thus while formulating the courses the core competency, difficulty level of subject and understanding level of the students be considered.
- V. Each course should be comprising of three units. Each unit will have the weightage of 15 lectures. Thus each course will have weightage of 45 lectures in first semester and 45 lectures in second semester
- VI. Practicals based on the topics be also framed wherever applicable.
- VII. Foundation course can include the topics like Communication Skills, Civics, Child Law, Women Law, political Science etc. Hence the specific faculty be requested for formation of course for the same.