



**UNIVERSITY OF CALICUT**

**Abstract**

BSc in Zoology-CUCBCSS UG 2014-Scheme and Syllabus- w.e.f 2014 admission -Approved-  
Syllabus of Complementary Course incorporated in the syllabus -approved - correndum issued

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**G & A - IV - J**

U.O.No. 615/2015/Admn

Dated, Calicut University.P.O, 20.01.2015

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*Read:-*1. U.O. No. 3797/2013/CU, dated 07.09.2013 (CBCSS UG Modified Regulations)

(File.ref.no. 13752/GA IV J SO/2013/CU).

2. U.O. No. 5180/2014/Admn, dated 29.05.2014 (CBCSS UG Revised Regulations)

(File.ref.no. 13752/GA IV J SO/2013/CU).

3. Item no. 8 of the minutes of the meeting of the Board of Studies in Zoology UG held on 04.03.2014.

4. Item no. 2 of the minutes of the meeting of the Faculty of Science held on 27.06.2014.

5. U.O.No: U.O.No. 6928/2014/Admn Dt 17.07.14

6. U.O.Note from Pareekshabhavan No: 15714/Ex-1-Asst-3/2014 3/8/14

7. item No: 1&2 of the Minutes of the meeting BOS in Zoology UG held on 18.11.14

8. item No:12 of the meeting of the Minutes of the Faculty of Science held on 22.12.14

**ORDER**

The Modified Regulations of Choice Based Credit Semester System for UG Curriculum w.e.f 2014 was implemented under the University of Calicut vide paper read as (1). The Revised CUCBCSS UG Regulations has been implemented w.e.f 2014 admission, for all UG programme under CUCBCSS in the University, vide paper read as (2).

The Board of Studies in Zoology UG finalized the revised syllabus of BSc Zoology for implementation w.e.f the Academic Year 2014-2015. vide paper read as (3). The Faculty of Science has also approved the minutes of the Board vide paper read as (4).

The Hon'ble Vice Chancellor, considering the exigency, exercising the powers of the Academic Council has approved the items regarding syllbus implementation in the minutes of the

concerned Boards of Studies mentioned in the minutes of the Faculty of Science, subject to ratification by the Academic Council, and orders have been issued vide paper read as (5).

The Pareekshabhavan as per paper read as (6) has reported the following omission in the approved syllabus of BSc Zoology UG 2014.

**The syllabus of complementary course was not included in the syllabus.**

The BOS in Zoology as per paper read as (7) has corrected the syllabus of BSc Zoology and it has been got approved by the Faculty of Science as per paper read as (8). The chairman has forwarded the Corrected Syllabus and reported that the syllabus of complementary courses will be the same as that of 2013 syllabus.

Therefore the Scheme and Syllabus implemented vide paper read as (5) stands corrected to this effect.

Corrigendum is issued accordingly. (The corrected syllabus is attached herewith and is available in the website: [universityofcalicut.info](http://universityofcalicut.info))

Muhammed S  
Deputy Registrar

To

1. All Affiliated Colleges/SDE/Dept.s/Institutions under University of Calicut.
2. The Controller of Examinations, University of Calicut.
3. The Director SDE, University of Calicut.

Forwarded / By Order

Section Officer

## **BSc Zoology main syllabus 2014 onwards**

- **Pattern of the model question paper, scheme of evaluation for internal examination and credit distribution have been included.**
- **The syllabus of Complementary course 2013 will continue without any change. The pattern of the model question paper, scheme of evaluation for internal examination and credit distribution for the complementary course have also been given.**

**UNIVERSITY OF CALICUT**

**B.Sc. ZOOLOGY PROGRAMME**

**SYLLABUS**

**CORE COURSES**

**COMPLEMENTARY COURSES**

**&**

**OPEN AND ELECTIVE COURSES**

*With effect from 2014-15 admission onwards*

## APPENDIX I

**List of the members of Board of Studies in Zoology (U. G.)  
N0.GA 1/F2/302/2012 dated 27.04.2014, Calicut University.P.O**

Sl. No.	Name	Designation	College
1	Sri. Majeed P.P	Associate Professor [Chairman], BOS	MES Mampad College
2	Sri. Mohammed Iqbal	Associate Professor	PSMO College, Tirurangadi
3	Dr. Britto Joseph	Associate Professor	St. Thomas College, Thrissur
4	Sri. M.P. Ishak	Principal	Govt. College, Perinthalmanna.
5	Dr. Sheeba	Associate Professor	Vimala College Thrissur
6	Dr. P.A Sajudeen	Associate Professor (JD, Direcrate of Higher Secondry Education, TVM)	St. Stephan's College, Pathanapuram (On Deputation)
7	Sri. Koshy P.M	Associate Professor	St. Stephan's College, Pathanapuram
8	Dr. Anitha Latha Sadanandan	Associate Professor	Malabar Christian College, Kozhikode
9	Smt. Jayasree V	Associate Professor	Sree Krishna College, Guruvayoor.
10	Dr Shobha T.R	Assistant Professor	Farook College, Kozhikode
11	Dr. N. Ramani	Professor Chairperson Zoology Board of studies (PG), University of calicut	Dept. of Zoology, Calicut University

**SYLLABUS**  
**CORE COURSES 1 TO 24**  
**&**  
**OPEN COURSES 1, 2 & 3**  
**ELECTIVE COURSES 1, 2 & 3**

## COURSE STRUCTURE

### Credit Distribution

<i>Semester</i>	<i>Common course</i>		<i>Core course</i>	<i>Complementary course</i>		<i>Open course</i>	<i>Total</i>
	<i>English</i>	<i>Additional Language</i>		<i>Chemistry</i>	<i>Botany</i>		
I	4+3	4	2	2	2	-	17
II	4+3	4	2	2	2	-	17
III	4	4	3	2	2	-	15
IV	4	4	3+4*	2+4*	2+4*	-	27
V	-	-	3+3+3+3	-	-	2	14
VI	-	-	2+3+3+3+ 3+3 +4*+4*+2** +1***+2****	-	-	-	30
<b>Total</b>	<b>22</b>	<b>16</b>	<b>56</b>	<b>12</b>	<b>12</b>	<b>2</b>	<b>120</b>

\*Practical    \*\*Project    \*\*\*field study/ Study Tour    \*\*\*\* Viva- voce

### Mark Distribution and Indirect Grading System

Mark system is followed instead of direct grading for each question. After external and internal evaluations marks are entered in the answer scripts. All other calculations, including grading, will be done by the university using the software. Indirect Grading System in 7 point scale is followed. Each course is evaluated by assigning marks with a letter grade (A<sup>+</sup>, A, B, C, D, E or F) to that course by the method of indirect grading.

### Mark Distribution

<i>Sl. No.</i>	<i>Course</i>	<i>Marks</i>
1	English	600
2	Additional Language	400
3	Core course: Zoology	1750
4	Complementary course: Chemistry	400
5	Complementary course: Botany	400
6	Open Course	50
	<b><i>Total Marks</i></b>	<b>3600</b>

### Seven point Indirect Grading System

<i>% of Marks</i>	<i>Grade</i>	<i>Interpretation</i>	<i>Grade Point Average</i>	<i>Range of Grade points</i>	<i>Class</i>
90 and above	A <sup>+</sup>	Outstanding	6	5.5 - 6	First Class with distinction
80 to below 90	A	Excellent	5	4.5 – 5.49	
70 to below 80	B	Very good	4	3.5 – 4.49	First Class
60 to below 70	C	Good	3	2.5 – 3.49	
50 to below 60	D	Satisfactory	2	1.5 – 2.49	Second Class
40 to below 50	E	Pass/Adequate	1	0.5 – 1.49	Pass
Below 40	F	Failure	0	0 – 0.49	Fail



## CREDIT AND MARK DISTRIBUTION IN EACH SEMESTERS

**Total Credits: 120; Total Marks: 3600**

<i>Semester</i>	<i>Course</i>	<i>Credit</i>	<i>Marks</i>
<b>I</b>	Common course: English	4	100
	Common course: English	3	100
	Common course: Additional Language	4	100
	Core Course I: Animal Diversity-Nonchordata-Part-I	2	100
	Complementary course: Chemistry	2	80
	Complementary course: Botany	2	80
	<b>Total</b>	<b>17</b>	<b>560</b>
<b>II</b>	Common course: English	4	100
	Common course: English	3	100
	Common course: Additional Language	4	100
	Core Course II: Animal Diversity-Nonchordata-Part-II	2	100
	Complementary course: Chemistry	2	80
	Complementary course: Botany	2	80
	<b>Total</b>	<b>17</b>	<b>560</b>
<b>III</b>	Common course: English	4	100
	Common course: Additional Language	4	100
	Core Course III: Animal Diversity-Chordata-Part-I	3	100
	Complementary course: Chemistry	2	80
	Complementary course: Botany	2	80
	<b>Total</b>	<b>15</b>	<b>460</b>
<b>IV</b>	Common course: English	4	100
	Common course: Additional Language	4	100
	Core Course IV: Animal Diversity-Chordata-Part-II	3	100

	Core Course V: Practical-I*A, I*B, I*C& I*D	4	100
	Complementary course: Chemistry	2	80
	Complementary course: Botany	2	80
	Complementary course: Chemistry Practical	4	80
	Complementary course: Botany Practical	4	80
	<b>Total</b>	<b>27</b>	<b>720</b>
<b>V</b>	Core Course VI: Environmental Biology, Wild Life Conservation And Toxicology	3	100
	Core Course VII: Ethology, Evolution And Zoogeography	3	100
	Core Course VIII: Cell Biology And Genetics	3	100
	Core Course IX : General Methodology in Science, Biostatistics And Informatics	3	100
	Open Course	2	50
	<b>Total</b>	<b>14</b>	<b>450</b>
<b>VI</b>	Core Course X: Bio chemistry	2	100
	Core Course XI: , Physiology And Endocrinology	3	100
	Core Course XII: Molecular biology And Bio informatics	3	100
	Core Course XIII: Reproductive Biology, Developmental biology And Teratology	3	100
	Core Course XIV: Bio technology, Micro biology And Immunology	3	100
	Core Course-XV: Elective Course : Human Genetics/ 02-Aquaculture, Animal Husbandry And Poultry/ 03-Applied Entomology(Any one)	3	100
	Core Course-XVI: Practical II- II*A, II*B & II*C	4	100
	Core Course-XVII: Practical III-III*A, III*B, III*C & III*D	4	100

	Core Course-XVIII: Project Work	2	50
	Field Study/Study tour	1	
	Viva-voce		
	<b>Total</b>	<b>30</b>	<b>850</b>

### Core Course Structure

**Total Credits: 56 (Internal: 20%; External: 80%)**

<i>Se mes ter</i>	<i>Code No</i>	<i>Course Title</i>	<i>Hrs/ Week</i>	<i>Total Hrs/ Sem</i>	<i>Credits</i>	<i>Marks</i>
<b>I</b>	ZO1B01T	Core Course I: Animal Diversity Nonchordata-I	2	36	2	100
	-	Core Course V : Practical related to ZO1B01T Practical-I*A	2	36	*	-
<b>II</b>	ZO2B02T	Core Course II: Animal Diversity Nonchordata-II	2	36	2	100
	-	Core Course V : Practical related to ZO2BOT-Practical-I*B	2	36	*	-
<b>III</b>	ZO3B03T	Core Course III –Animal diversity- Chordata -I	3	54	3	100
	-	Core Course V : Practical related to ZO3B03T-Practical-I*C	2	36	*	-

<b>IV</b>	ZO4B04T	Core Course IV: Animal diversity Chordata-II	3	54	3	100
	-	Core Course V: Practical related to ZO4B04T- Practical-I*D	2	36	*	-
	ZO4B05P	Practical-I*A, I*B, I*C & I*D	8	144	4	100
<b>V</b>	ZO5B06T	Core Course VI: Environmental Biology, Wild life Conservation & Toxicology	3	54	3	100
	ZO5B07T	Core Course VII: Ethology Evolution & Zoogeography	3	54	3	100
	-	Practical Theory Course related to ZO5B06T & ZO5B07T-Practical II*A	3	54	*	-
	ZO5B08T	Core Course VIII: Cell Biology & Genetics	3	54	3	100
	-	Practical related to Theory Core Course : ZO5B08T-Practical II*B	3	54	*	-
	ZO5B09T	Core Course IX: General Methodology in Science, Bio Statistics & Informatics	3	54	3	100
	-	Practical Related to Theory Core Course ZO5B09T-Practical II*C	2	36	*	-
	-	Project Work	2	36	**	-
	-	Field Study	1	18	***	-
<b>VI</b>	ZO6B10T	Core Course X: Bio Chemistry	2	36	2	100
	ZO6B11T	Core Course XI: Physiology & Endocrinology	3	54	3	100

-	Practical related to Core Course ZO6B10T & ZO6B11T-III*A	2	36	*	-
ZO0612T	Core Course XII: Molecular Biology & Bioinformatics	3	54	3	100
ZO0613T	Core Course XIII: Reproductive Biology, Developmental Biology & Teratology	3	54	3	100
-	Practical related to Theory Core Course ZO0613T-Practical-III*B	2	36	*	-
ZO0614T	Core Course XIV : Bio Technology, Micro biology & immunology	3	54	3	100
-	Practical Related to theory Core Course ZO0614T-Practical III*C	2	36	*	-
ZO0615T (E1) (E2) (E3)	Core Course XV: Elective	3	54	3	100
	1. Human Genetics				
	2. Aquaculture, Animal husbandry & Poultry				
	3. Applied Entomology(An y One)				
-	Practical Related to Theory Elective Course ZO0615T(E)-Practical III*D	2	36	*	-
ZO0616P	Practical II-II*A, II*B & II*C	8	144	4*	100
ZO0617P	Practical III-III*A, III*B, III*C & III*D	8	144	4*	100

ZO06 18Pr	Project Work	-	-	2**	50
ZO06 19F	Field Study		18	1***	-
ZO06 20V	Viva voce	-	-	2****	-
<b>Total</b>				<b>56</b>	<b>1750</b>

\* Exam will be held at the end of 4<sup>th</sup> semester .

\*\* Exam will be held at the end of 6<sup>th</sup> semester.

- ZO 06 15T An institution can choose any one Elective course among the three courses.
- Includes Field Study also. Marks: 90 (ZO0616P) + 10 (Hand written Field Study Report).
- Includes Viva Voce also. Marks: 85(ZO06 17P) + 15(General Viva Voce).
- Practical Examinations are of 4 hrs Duration.