



MES KEVEEYAM COLLEGE VALANCHERRY

P.O. Valancherry, Malappuram Dist., Kerala, Pin: 676 552.
Phone: 0494-2642670
www.meskvcollege.org, Email: principal@meskvcollege.org

Aided by Govt. of Kerala and Affiliated to University of Calicut
Reaccredited with 'A' Grade by NAAC (Score 3.28)
ISO 9001:2015 certified institution

List of new courses introduced in the M Sc Zoology Programme

Name of the New Courses Introduced in the Last 5 years	Programme Name	Programme Code	Course Code	Year of Introduction
Biochemistry	M Sc Zoology	MESKV/74/ZO	ZOICT 01	2015
Biophysics and Biostatistics	M Sc Zoology	MESKV/74/ZO	ZOICT -02	2015
Systematics and Evolution	M Sc Zoology	MESKV/74/ZO	ZOICT -06	2015 .
Biochemistry (Pr)	M Sc Zoology	MESKV/74/ZO	ZOICPO1	2015
Biophysics and Biostatistics & Systematics(Pr)	M Sc Zoology	MESKV/74/ZO	ZOICPO2	2015
Physiology	M Sc Zoology	MESKV/74/ZO	ZO2CT04	2015
Ecology and Ethology	M Sc Zoology	MESKV/74/ZO	ZO2CT03	2015
Physiology, Developmental Biology and Endocrinology(Pr)	M Sc Zoology	MESKV/74/ZO	ZO2CT06	2015
Biochemistry, Biophysics and Biostatistics	M Sc Zoology	MESKV/74/ZO	ZO2CP01	2015
Ecology, Ethology & Systematics and Evolution,	M Sc Zoology	MESKV/74/ZO	ZO2CP03	2015
Immunology	M Sc Zoology	MESKV/74/ZO	ZO3CT07	2015
Developmental Biology and Endocrinology	M Sc Zoology	MESKV/74/ZO	ZO3CT08	2015
Entomology 1: Morphology & Taxonomy	M Sc Zoology	MESKV/74/ZO	ZO3ET09	2015
Biotechnology and Microbiology	M Sc Zoology	MESKV/74/ZO	ZO4CT10	2015
Entomology II: Anatomy and Physiology	M Sc Zoology	MESKV/74/ZO	ZO4ET11	2015
Entomology III : Agriculture and Medical Entomology	M Sc Zoology	MESKV/74/ZO	ZO4ET12	2015
Immunology, Developmental Biology, Endocrinology, Biotechnology, Microbiology & Microtechniques(Pr)	M Sc Zoology	MESKV/74/ZO	ZO4CP 04	2015
Entomology I & II (Pr)	M Sc Zoology	MESKV/74/ZO	ZO4EP 05	2015
Entomology III (Pr)	M Sc Zoology	MESKV/74/ZO	ZO4EP 06	2015
Biochemistry & Cytogenetics	M Sc Zoology	MESKV/74/ZO	ZO11CO1	2016
Molecular Biology	M Sc Zoology	MESKV/74/ZO	ZO2CT05	2016
Physiology, Molecular Biology and Cytogenetics	M Sc Zoology	MESKV/74/ZO	ZO1202	2016





UNIVERSITY OF CALICUT

Abstract

Additional affiliation - various degree programme in M E S Keveeyem College (Aided), Valanchery, Malappuram 676 552 - for the academic year 2015-2016 -Sanctioned-Orders Issued.

CDC-G

U.O.No. 10347/2015/Admn

Dated, Calicut University.P.O, 03.10.2015

Read:-1. Application dated nil from the Principal, M E S Keveeyem College (Aided) Valanchery, Malappuram 676 552.

2. Letter No. 118457/CDC-A3/2014/Admn dated 7.5.2015, Letter No. 90510/CDC-A3/2015/Admn dated 29.6.2015 and Letter No. 35888/CDC-A3/2013/CU dated 23.5.2014 addressed to the Principal Secretary, Higher Education Department, Government of Kerala, Thiruvananthapuram.

3. G.O.(M.s) No:415/2015/H.Edn Dated 09.07.2015.

4. G.O.(M.s) No:489/2015/H.Edn Dated 28.07.2015.

5. Syndicate Resolution item number 2015.819*dated 3.7.2015.

ORDER

The Principal, M E S Keveeyem College, (Aided), Valanchery, Malappuram-676 552 had applied for additional affiliation for various degree programmes in the college.

As per the reference read as second, this office forwarded recommendation for B.Com with Finance (40 seats), M.Sc Zoology (10 seats), M.Sc Computer Science (10 seats) and B.Sc Psychology (24 seats) self financing degree programmes to the College for the consideration and concurrence of the Govt.of Kerala.

The Govt.of Kerala have issued No Objection Certificate for starting the new self financing/Unaided courses of B.Sc Psychology (24 seats) B.Com Co-operation (40 seats), M.Sc Zoology (10 seats), M.Sc Computer Science (10 seats) and MA History (16 seats) in M E S Keveeyem College (Aided), Valanchery, Malappuram during the academic year 2015-2016 as per the G.O read as 3rd and modified No Objection certificate for the change of course of B.Com Co-operation to B.Com Finance (40 seats) as per the G.O read as 4th.

The Principal and the Manager, M E S Keveeyem College (Aided) Valanchery, Malappuram have submitted an undertaking to the effect that the college shall carry out faithfully the provisions of the University Act, Statutes, Ordinances and Regulations and directions issued by the University from time to time and admit only such students who are eligible as per the regulations of the University. They have also agreed that the University can proceed with strict actions including withdrawal of affiliation of the college, if anything is done by them, against the interest of the University or the student community.

An amount of Rs 40,000/- (Rupees.forty thousand only) has been remitted by the college towards affiliation fee for four courses as per the chalan number 151705028 dated 6.8.2015 by E Transfer. Administration fee was remitted by the college along with the continuation of provsional affiliation fee for the academic year 2015-2016

As per the Syndicate Resolution item number 2015.819*dated 3.7.2015, the Syndicate has authorized the Vice-Chancellor to sanction courses, Colleges and increase of seats as per the recommendation of the DLIC and the resolution has been implemented by the Vice-Chancellor on 10.7.2015

Resolution item number 2015.819*dated 3.7.2015, for granting additional affiliation to the self financing degree programmes as detailed below in MES Keveeyem College (Aided), Valanchery, Malappuram for the academic year 2015-2016 subject to the terms and conditions specified hereunder.

Sl.No.	Name of the Programmes	Intake
1	B.Com Finance	40
2	M.Sc Zoology	10
3	M.Sc Computer Science	10
4	B.Sc Psychology	24

Selection and admission shall be made only on the basis of the Rules and Regulations of the University/Government and on the basis of the directions issued by the University/Government from time to time, failing which the affiliation granted will automatically be cancelled.

In the light of the direction of the Supreme Court of India in W P © 656/1998, the institution shall take appropriate measures for the prevention of ragging in any form. In case of failure to prevent such instances appropriate action including withdrawal of affiliation of the college will be initiated.

Affiliation granted is strictly provisional and only for the academic year 2015-2016. The college has to apply for the continuation of provisional affiliation for the ensuing years remitting the fee fixed by the University.

Admission to the next academic year shall be made, only after obtaining prior permission from the University.

All courses are sanctioned subject to availability of an approved syllabus. The college should ensure that, an approved syllabus is available for the sanctioned courses before starting the course. Otherwise, the matter should immediately be reported to the University.

As per the U.O. No. 5869/2015/Admn dated 09.06.2015, the conduct of University Examinations of any sort including that S.D.E Examinations is compulsory and binding on all colleges affiliated to the University of Calicut.

Orders are issued accordingly.

Girija M.V
Deputy Registrar

To

1. The Principal M E S Keveeyem College (Aided), Valanchery, Malappuram 676 552.
2. The Manager, M E S Keveeyem College (Aided), Valanchery, Malappuram 676 552.
3. The Principal Secretary, Higher Education Department, Govt. of Kerala, Thiruvananthapuram.
4. The Director of Collegiate Education Thiruvananthapuram.
5. The Deputy Director of Collegiate Education, Kozhikode.
6. The Controller of Examinations, Pareeksha Bhavan 7. PS to VC 8. PA to Registrar 9. DSW 10. DPE
11. The System Administrator, Digital Wing Pareeksha Bhavan, with a request to post on the official website of the University.
12. DR GAI 13. GAI-B, C, E, F and CDC-D, E G sections. 14. SF, DF, FC.

Forwarded / By Order

Section Officer

UNIVERSITY OF CALICUT

(Abstract)

Scheme and syllabus of M.Sc Zoology (I Semester) of affiliated colleges under Credit Semester System, Calicut University (CUCSS-PG-2010) implemented with effect from 2010 admission-orders issued.

GENERAL & ACADEMIC BRANCH-IV 'J' SECTION

No. GA IV/J1/4279/10

Dated, Calicut University PO, 26.07.2010

Read: 1. U.O.No. GAIV/J1/1373/08 dated, 23.07.2010.

2. Minutes of the meeting of the Board of Studies in Zoology (PG) of 09.06.2010, Item No.1

3. Orders of the Vice-Chancellor, in the file of even number dated 29.06.2010.

4. Item No.III a.30 of the minutes of the meeting of the Academic Council, held on 03.07.2010.

ORDER

As per reference cited (1) above, Credit Semester System at Post Graduate level in affiliated colleges(CUCSS PG-2010) has been implemented from the academic year 2010, onwards.

The Board of Studies at its meeting, vide reference cited (2) above, discussed the scheme and syllabus of PG (Zoology) of affiliated colleges and has forwarded the scheme and syllabus of Ist Semester to the University.

The Vice-Chancellor, in view of exigency, has approved the minutes of the meeting of the Board, subject to ratification by the Academic Council.

The Academic Council, vide paper read as 4th above, ratified the action of the Vice Chancellor in having approved the minutes of the meeting of the Board of Studies in Zoology.

Sanction has therefore been accorded to implement the scheme and syllabus of MSc Zoology of affiliated colleges under Credit Semester System with effect from 2010 admission.

Orders are issued accordingly. Scheme and syllabus appended.

Sd/-

REGISTRAR

To

1. The Principals of all affiliated Colleges offering M.Sc Zoology
2. Self financing centres of the University of Calicut offering Zoology(PG)

Copy to:

PS to VC/PA to Registrar/CE/ Digital wing (with a request to upload in the University website)/Enquiry/Information Centres/DR III Exams/EG-I/DR PG/Tabulation/GAIF 'A' Sections/GAII/GAIII/DDLFA/SF/FC

Forwarded/By Order

Sd/-

SECTION OFFICER

CURRICULUM AND SYLLABI FOR
M.Sc. ZOOLOGY Course under
Choice Based Credit Semester System
(C C S S)

FIRST SEMESTER

Theory Courses

Code No. & Title of the Course	Credits	External marks	Internal marks	Total
ZO ICT 01- Biochemistry	4	75	25	100
ZO ICT-02-Biophysics and Biostatistics	4	75	25	100
ZO ICT-03-Systematics and Evolution	4	75	25	100
Total	12	225	75	300

Practical Courses

Code No. & Title of the Course	Credits	External marks	Internal marks	Total
ZO ICP 01- Biochemistry	2	75	25	100
ZOICP-02-Biophysics Biostatistics and Systematics	2	75	25	100
Total	4	150	50	200

ZO - Zoology
I - I semester
CT - Course Theory
CP - Course Practical

UNIVERSITY OF CALICUT
CURRICULUM AND SYLLABI FOR M.Sc. ZOOLOGY PROGRAMME
(CREDIT SEMESTER SYSTEM)

SECOND SEMESTER

CODE NO. AND TITLE OF THE COURSE	CREDITS	EXTERNAL WEIGHTAGE	INTERNAL WEIGHTAGE
ZO 2 CT 04 - PHYSIOLOGY	4	36	5
ZO 2 CT 05 – ECOLOGY & ETHOLOGY	4	36	5
ZO 2 CT 06 – DEVELOPMENTAL BIOLOGY & ENDOCRINOLOGY	4	36	5
ZO 2 CP 01 – BIOCHEMISTRY, BIOPHYSICS & BIostatISTICS	4	24	5
ZO 2 CP 02 – PHYSIOLOGY, DEVELOPMENTAL BIOLOGY & ENDOCRINOLOGY	4	24	5
ZO 2 CP 03 – SYSTEMATICS, EVOLUTION, ECOLOGY & ETHOLOGY	4	24	5

THIRD SEMESTER- THEORY COURSES**ZO- Zoology CT- Course Theory ET- Elective Theory 3- III semester**

Code No. & Title of the Course	Credits	External Weightage	Internal Weightage
ZO 3CT 07-Immunology	4	36	5
ZO 3CT 08- Developmental Biology and Endocrinology	4	36	5
ZO 3ET 09- Entomology 1: Morphology and Taxonomy	4	36	5
ZO 3ET 09- Environmental Biology 1: Man , Environment & Natural Resources	4	36	5
ZO 3ET 09- Fishery Science 1: Taxonomy, Biology, Physiology & Ecology	4	36	5
ZO 3ET 09- Human Genetics 1: Clinical Genetics	4	36	5
ZO 3ET 09- Wildlife Biology 1: Biodiversity & Biota	4	36	5

FOURTH SEMESTER – THEORY COURSES

Code No. & Title of the Course	Credits	External Weightage	Internal Weightage
ZO 4CT 10- Biotechnology and Microbiology	4	36	5
ZO 4ET 11- Entomology II: Anatomy and Physiology	4	36	5
ZQ 4ET 11- Environmental Biology II: Environmental pollution	4	36	5
ZO 4ET 11- Fishery Science II: Capture & Culture Fisheries	4	36	5
ZO 4ET 11-- Human Genetics II: Diagnostic Genetics	4	36	5
ZO 4ET 11- Wildlife Biology II: Wildlife Conservation	4	36	5
ZO 4ET 12- Entomology III: Agricultural , Medical & Forensic Entomology	4	36	5
ZO 4ET 12-Environmental Biology III: Environmental Conservation	4	36	5
ZO 4ET 12-Fishery Science III: Harvesting, Post-harvesting Technology & Marketing	4	36	5

ZO 4ET 12-Human Genetics III: Cancer Genetics & Genetic Services	4	36	5
ZO 4ET 12- Wild Life Biology III : Wildlife Management	4	36	5

THIRD AND FOURTH SEMESTER PRACTICAL COURSES

Code No. & Title of the Course	Credits	External Weightage	Internal Weightage
ZO 4CP 04-Immunology, Developmental Biology, Endocrinology, Biotechnology, Microbiology & Microtechnique	4	24	5
ZO 4EP 05- Entomology I & II	4	24	5
ZO 4EP 05-Environmental Biology I & II	4	24	5
ZO 4EP 05- Fishery Science I & II	4	24	5
ZO 4EP 05-Human Genetics I & II	4	24	5
ZO 4EP 05- Wildlife Biology I & II	4	24	5
ZO 4EP 06- Entomology III	4	24	5
ZO 4EP 06-Environmental Biology III	4	24	5
ZO 4EP 06- Fishery Science III	4	24	5
ZO 4EP 06- Human Genetics III	4	24	5
ZO 4EP 06- Wildlife Biology III	4	24	5
PROJECT WORK	4	24	5
VIVA VOCE (project -2 + general-2)	4	24	5

Total number of theory courses - 12

Credit for each theory course - 4

Total credits for theory course - 48

Credit for Project work - 4

Credit for Viva- voce - 4

Total number of practical courses - 6

Credit for each practical course - 4

Total credits for practical courses - 24

Total credit for the course - 80

1. Practical examination shall be conducted at the end of second and fourth semesters.
2. The teacher who gives guidance to project work can select any topic from the syllabi including the elective course and the topic shall be assigned to each student. The research work on this topic shall be carried out by each student under the supervision of the teacher. The report of the research work shall be submitted by each student in the form of a Dissertation which shall be attested by the Head of the Department and shall be submitted for the evaluation. A declaration by the student to the effect that the dissertation submitted by him/ her has not previously been formed the basis for the award of any degree or diploma and a certificate by the

UNIVERSITY OF CALICUT

(Abstract)

Syllabus of M.Sc Zoology (II semester) of affiliated colleges under Credit Semester System (CUCSS-PG-2010) – implemented with effect from 2010 admission – Orders issued.

GENERAL & ACADEMIC BRANCH-IV 'J' SECTION

No. GA IV/J1/4279/2010

Dated, Calicut University PO, 11.01.2011

Read: 1. U.O.No.GAIV/J1/1373/08 dated 23.07.2010.

2. U.O.No.GAIV/J1/4279/10 dated 26.07.2010.

3. Item 1 and 2 of the minutes of the meeting of the Board of Studies in Zoology (PG) of 04.01.2011.

4. Orders of the Vice-Chancellor, in the file of even no.on 10.01.2011.

ORDER

As per paper read as (1) above, Credit Semester System at PG level in affiliated colleges (CUCSS-PG-2010) has been implemented from the academic year 2010 onwards.

The Scheme and syllabus of I semester of M.Sc Zoology of affiliated colleges under Credit Semester System was implemented with effect from 2010 admission vide paper read as (2) above.

The Board of Studies at its meeting vide paper read as (3) above, discussed, in detail the syllabus for the 2nd semester PG (CSS) in Zoology, approved the same and prepared model question papers for the theory courses of 2nd semester.

The Vice-Chancellor, in view of exigency and exercising the powers of the Academic Council, has approved the minutes of the meeting of the Board, subject to ratification by the Academic Council.

Sanction has therefore been accorded to implement the syllabus and model question papers for the II semester M.Sc Zoology programme of affiliated colleges under Credit Semester System with effect from 2010 admission.

Orders are issued accordingly. Syllabus and model question papers appended.

Sd/-

**DEPUTY REGISTRAR(G&A IV)
For REGISTRAR**

To

1. The Principals of all affiliated Colleges offering M.Sc Zoology.
2. Self Financing Centres of the University of Calicut offering Zoology (PG)

Copy to:

PS to VC/PA to Registrar/CE/System Administrator
(with a request to upload in the University website)/Enquiry/
Information centres/DR III (Exams)/EG-I/DR PG/Tabulation section/EX section/
GAI 'F' 'G' sections/GAII/GAIII/DDLFA/SF/FC

Forwarded/By Order

Sd/-

SECTION OFFICER



UNIVERSITY OF CALICUT

Abstract

Scheme and Syllabus of M.Sc Zoology for affiliated colleges under CUCSS – PG2010– Revised - approved and implemented with effect from 2016 -17 admission onwards – Orders issued-reg

G & A - IV - J

D.No. 5871/2016/Admn

Dated, Calicut University.P.O, 06.05.2016

- Read:-**
1. U.O No.GA IV/J1/1373/08 Dated 23.07.2010
 2. U.O.No. 7466/2014/Admn Dated 01.08.2014
 3. U.O.No.GAIV/J1/4279/10 dated 26.07.2010.
 4. U.O.No.GAIV/J1/4279/10 dated 11.01.2011.
 5. U.O.No.GA IV/J1/4279/2010 dated 22.02.2011
 6. Item (2) of the minutes of the meeting of the Board of Studies in Zoology (PG) of 21.03.2016.
 7. Remarks of the Dean, Faculty of Science 13.04.16
 8. Order of the Vice Chancellor in the file of even number 19.04.16

ORDER

Credit Semester System was implemented for Post Graduate Programmes in affiliated colleges with effect from 2010 admissions, vide paper read as 1st above. Clarifications have been incorporated and implemented as per the paper read as (2) above.

As per paper read as (3), (4) & (5) above, the scheme and syllabus of M.Sc Zoology (I, II and &IV semester respectively) of affiliated colleges under Credit Semester System were implemented with effect from 2010 admission.

As per paper read as (6) the Board of Studies in Zoology PG has revised and approved the syllabus of M.Sc. Zoology PG. As per paper read as (7) the Dean, Faculty of Science has recommended to approve the minutes of Zoology PG. As per paper read as (8) the Vice-Chancellor, in view of exigency, exercising the powers of the Academic Council, has approved the minutes of the meeting of the Board, subject to ratification by the Academic Council.

Sanction has therefore been accorded to implement the revised scheme and syllabus M.Sc Zoology programme for affiliated colleges under CUCSS- PG with effect from 2016-17 admission. Orders are issued accordingly.

The Syllabus is appended and the same is also available in University website www.universityofcalicut.info.

FIRST SEMESTER- THEORY COURSES

Code No. & Title of the Course	Credits	External Weightage	Internal Weightage
ZOL1C01- Biochemistry and Cytogenetics	4	36	5
ZOL1C02- Biophysics and Biostatistics	4	36	5
ZOL1C03- Ecology and Ethology	4	36	5

SECOND SEMESTER- THEORY COURSES

Code No. & Title of the Course	Credits	External Weightage	Internal Weightage
ZOL2C04- Physiology	4	36	5
ZOL2C05- Molecular Biology	4	36	5
ZOL2C06- Systematics and Evolution	4	36	5

FIRST & SECOND SEMESTER- PRACTICAL COURSES

Code No. & Title of the Course	Credits	External Weightage	Internal Weightage
ZOL2L01- Biochemistry, Biophysics and Biostatistics	4	24	5
ZOL2L02- Physiology, Molecular Biology and Cytogenetics	4	24	5
ZOL2L03- Ecology, Ethology, Systematics and Evolution	4	24	5

ZOL-Zoology, 1-I semester, C- Course Theory, L- Course Practical, 2- II semester

THIRD SEMESTER- THEORY COURSES

Code No. & Title of the Course	Credits	External Weightage	Internal Weightage
ZOL3C07-Immunology	4	36	5
ZOL3C08- Developmental Biology and Endocrinology	4	36	5
ZOL3E09- Entomology 1: Morphology and Taxonomy	4	36	5
ZOL3E09- Environmental Biology 1: Man, Environment & Natural Resources	4	36	5
ZOL3E09- Fishery Science 1: Taxonomy,	4	36	5