

(Abstract)

M.Sc Applied Zoology Programme (CBCSS) , in the Dept. of Zoology, Mananthavady Campus of the University - implemented w.e.f. 2021 Admission- Scheme part modified - Orders issued

ACADEMIC C SECTION

ACAD C/ACAD C1/4210/2023

Dated: 12.09.2023

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- Read:-1.U.O.No.Acad/C4/3864/2020 dated 17.01.2021
2. U.O.No.Acad C4/3864/2020 dtd.28.11.2022
3.U.O.No.Acad C1/4210/2023 dtd.5.05.2023
4.U.O.No.. Acad C3/4236/2021(1) dtd.07.11.2022
5.U.O Note No.EP IV/EP IV-2/39385/2022 dated 22.02.2023 & 28.04.2023.
6.Minutes of the meeting of Department Council, Department of Zoology held on 22.03.2023 forwarded by the Head vide e-mail dtd.22.08.2023.
7.Modified Scheme and Syllabus of MSc Applied Zoology forwarded by the Head , Department of Zoology vide e-mail dtd.18.08.2023.

ORDER

1. As per paper read (1) above, the revised Scheme & Syllabus of M.Sc Applied Zoology Programme (CBCSS) were implemented in the Department of Zoology, Mananthavady Campus of the University w.e.f 2020 admission and certain modification were effected vide U.O.read (2) above.
2. As per Paper read 3 above Clause 6.7 and 6.8 of the Regulation were relaxed for M.Sc Applied zoology programme w.e.f.2020 admission as there is discrepancy in the total credit of the courses in the semester and total credit of the entire programme.
- 3.As per Paper read 4 above, the Clause 6.2 & 6.8 of the Regulation were modified w.e.f 2021 admission by introducing compulsory Open elective courses offered by other Departments in the Third semester and hence the total credit of the programme became 72-84 and and scheme and syllabus of the programme were modified accordingly.
4. Eventhough open elective course was incorporated in the scheme of the programme the credit (4) assigned for the Open course is not included in the total credit of the semester.
- 5.The Examination branch Vide papers read(5) above, pointed out that total credit assigned for the Courses in the Third semester is 22 instead of 26 and total credit of the Programme became 86 which is against the PG Regulation in the University Department
- 4.The matter was intimated to the H.o.D. Consequently, the Department Council, Department of Zoology held on 22.03.2023 resolved to approve the modified Scheme & Syllabus of the M.Sc Applied Zoology with the following changes, w.e.f 2021 admission.
 - Total Credit of the Third semester is changed from 22 to 26 by adding the Credit assigned for the Open Course offered by other Dept/MOOC.
 - The total credit of the programme will be changed from 82 to 86 .
5. Further, the Head, Department of Zoology, submitted the modified Scheme of M.Sc Applied Zoology programme (CBCSS), for implementation w.e.f 2021 admission, vide paper read (7) above.
- 6.The Vice Chancellor, after providing relaxation to the clause 6.7 and 6.8 of the regulations of

the PG programmes in the University departments to the M.Sc Applied Zoology programme by exercising the powers of the Academic Council conferred under section 11 (1) Chapter III of Kannur University Act 1996 **accorded sanction to implement the Modified Scheme of M.Sc. Applied Zoology Programme under CBCSS, in the Department of Zoology, Mananthavady Campus with effect from 2021 admission after incorporating corrections/modifications as detailed at para (4) above , and to report to the Academic Council.**

7. The modified Scheme of M.Sc Applied Zoology Programme (CBCSS) implemented with effect from 2021 admission is appended and uploaded in the University Website.(www.kannuruniversity.ac.in).

8.The U.Os read (2) above stands modified to this effect w.e.f.2021 admission.

9.Orders are issued accordingly.

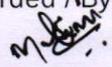
Sd/-

Narayanadas K
DEPUTY REGISTRAR (ACAD)
For REGISTRAR

To: 1. The Head, Department of Zoology
Mananthavady Campus

Copy To: 1. The Examination Branch (through PA to CE).
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Forwarded /By Order


SECTION OFFICER





SEMESTER WISE DISTRIBUTION OF PAPERS, MARKS, CONTACT HOURS AND CREDITS

First Semester

| Paper No | Title of Paper | Contact Hrs/Week | | | Marks | | | Credits |
|------------|------------------------------------------------------|------------------|-----|---|---------|----------|-------|---------|
| | | L | T/S | P | End Sem | Internal | Total | |
| | Course details/marks | | | | | | | |
| MSZOO01C01 | Philosophy of Science and History of Biology | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO01C02 | Chemistry for Biologists | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO01C03 | Physics for Biologists and Statistics for Biologists | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO01C04 | Biosystematics, Taxonomy and Ethology | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO01P01 | Practical – I (Biochemistry) | 6 | | | 60 | 40 | 100 | 3 |
| MSZOO01P02 | Practical – II (Biophysics & Biostatistics) | 6 | | | 60 | 40 | 100 | 3 |
| | Total | | | | 360 | 240 | 600 | 22 |

Second Semester

| Paper No | Title of Paper | Contact Hrs/Week | | | Marks | | | Credits |
|--------------|---------------------------------------------------------------------|------------------|-----|---|---------|----------|-------|---------|
| | | L | T/S | P | End Sem | Internal | Total | |
| | Course details/marks | | | | | | | |
| MSZOO02C 05 | Cytogenetics, Molecular Biology and Molecular evolution | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO02C 06 | Biotechnology & Bioinformatics | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO02C 07 | Comparative Animal Physiology | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO02E 01* | Immunology * | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO02P 03 | Practical – III (Cytogenetics, Molecular Biology and Biotechnology) | 6 | | | 60 | 40 | 100 | 3 |
| MSZOO02P 04 | Practical – IV (Animal Physiology and Parasitology) | 6 | | | 60 | 40 | 100 | 3 |
| | Total | | | | 360 | 240 | 600 | 22 |

Third Semester

| Paper No | Title of Paper | Contact Hrs/Week | | | Marks | | | Credits |
|-------------|---------------------------------------------------|------------------|-----|---|---------|----------|-------|---------|
| | | L | T/S | P | End Sem | Internal | Total | |
| | Course details/marks | | | | | | | |
| MSZOO03C 08 | Developmental Biology | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO03C 09 | Ecology | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO03C 10 | Conservation Biology –I | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO03E02* | Conservation Biology –II* | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MSZOO03E03* | Wildlife Biology * | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MS ZOO03P05 | Practical – V (Developmental Biology) | 6 | | | 60 | 40 | 100 | 3 |
| MS ZOO03P06 | Practical – VI (Ecology and Conservation Biology) | 6 | | | 60 | 40 | 100 | 3 |
| | Open Elective | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| | Total | | | | 420 | 280 | 700 | 26 |

| Paper No | Title of Paper | Contact Hrs/Week | | | Marks | | | Credits |
|-------------|--------------------------|------------------|-----|---|---------|----------|-------|---------|
| | | L | T/S | P | End Sem | Internal | Total | |
| MSZOO03OE01 | Statistics for biologist | 4 | 1 | 4 | 60 | 40 | 100 | 4 |

Fourth Semester

| Paper No | Title of Paper | Contact Hrs/Week | | | Marks | | | Credits |
|---------------|--------------------------------------------|------------------|-----|---|---------|----------|-------|---------|
| | | L | T/S | P | End Sem | Internal | Total | |
| | Course details/marks | | | | | | | |
| MS ZOO04E04* | Research Methodology – Concepts & Methods* | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MS ZOO04E05* | Parasitology* | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MS ZOO04E 06* | Fisheries Biology* | 4 | 1 | 4 | 60 | 40 | 100 | 4 |
| MS ZOO04C11 | Project work | 4 | 1 | 4 | 60 | 40 | 100 | 8 |
| | Total | | | | 180 | 120 | 300 | 16 |

Elective paper - choose any one (MSZOO03E02, MSZOO03E03*) in third semester and choose any two in fourth semester (MSZOO04E04*, MSZOO04E05*, MSZOO04E06*)

PROJECT WORK

The main objective of introducing a project work in the curriculum is that the student who completes this course should get hands on experience in independent research work in the field of biodiversity conservation and management. He/she should equip himself/herself to face challenges in Conservation Biology and should be able to provide trained manpower in the field. A topic in the optional subject – Biodiversity: Conservation and Management shall be assigned to each student.

The research work related to this topic will be carried out by each student under the supervision of a teacher. The report of the findings shall be submitted by each student in the form of a dissertation which shall be submitted for evaluation a day prior to the date of viva voce examination of the fourth semester. A declaration by the student to the effect that the dissertation submitted by him/her has not previously formed the basis for the award of any degree or diploma and a certificate by the supervising teacher to the effect that the dissertation is an authentic record of work carried out by the student under his supervision are to be furnished in the dissertation.

Assessment of different components of project may be taken as below:

Internal evaluation: 40 marks

Internal evaluation should be done by the Internal supervising teacher on the basis of the involvement of student at various stages of the project work including collection of data in a time bound manner, submission of dissertation as per the time schedule and on the sincerity and punctuality in carrying out the dissertation work

External evaluation: 60 marks

External evaluation of the dissertation and the conduct of Viva Voce examination should be done by two examiners of which one should be an expert from an Academic or research institute from a panel of experts submitted to University by the Head of the Department and the other should be a permanent faculty member nominated by the Head of the Department.

Out of the 60 marks 40 marks may be earmarked for the dissertation, 15 marks for the presentation and 5 marks for the interaction

Pass conditions. The students shall declare to pass the project report course if she/he secures a minimum of 40% marks (internal and external put together). In an instance of inability of obtaining a minimum of