

**SRI VENKATESWARA UNIVERSITY:: TIRUPATI**  
**CENTRE FOR DISTANCE AND ONLINE EDUCATION**



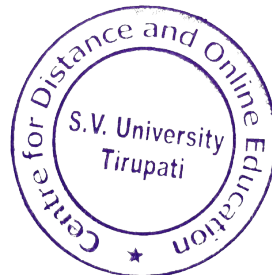
PPR for M.Sc. Zoology

Choice Based Credit System (CBCS)

Amended as per NEP-2020

(w.e.f. the Academic Year 2024-2025)

  
DIRECTOR  
Centre for Distance and  
Online Education (CDOE)  
Sri Venkateswara University  
TIRUPATI - 517 502.



  
REGISTRAR  
S.V. UNIVERSITY  
TIRUPATI

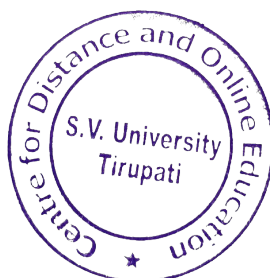
***Vision:***

1. Provide a sound education in basic science
2. Transform society through the empowerment of women
3. Provide inexpensive educational services to the weaker sections of society
4. Inculcate respect for nature and concern for ethical values among students through good and scientific educational practices.
5. Recognizing the essential roles of science and biology in the lives of citizens today and tomorrow, we emphasize biological literacy in our teaching and outreach programs.

***Mission:***

1. To impart to the students the contemporary advancements in life sciences.
2. To impart a global perspective and such skills among students that benefit humanity.
3. To promote the discovery and broad communication of knowledge about the biology of animals including their Taxonomy, Evolution, Physiology, Cell, Molecular and Biochemical make up, interaction with their environments and its Zoogeographical realms.
4. To develop research aptitude and a scientific advancement.
6. Reinvent ourselves in response to the changing demands of society with high moral values as a good citizen

  
**DIRECTOR**  
Centre for Distance and  
Online Education (CDOE)  
Sri Venkateswara University  
TIRUPATI - 517 502.



  
**REGISTRAR**  
**S.V. UNIVERSITY**  
**TIRUPATI**

## Semester-I

Sl. No	Components of Study	Title of the Course	Status of Paper	Title of the Paper	Credit Hrs / Week	Number of Credits	IA Marks	Semester End Marks	Total
1	Core*	ZOO-101	Mandatory	Invertebrata & Chordata	6	4	20	80	100
2		ZOO-102	Mandatory	Metabolic Regulation & Cell Function	6	4	20	80	100
3	Compulsory Foundation	ZOO-103A	Optional -1	Genetics & Evolution	6	4	20	80	100
		ZOO-103B		Endocrinology					
4	Elective Foundation	ZOO-104A	Optional -1	Tools & Techniques	6	4	20	80	100
		ZOO-104B		Genetic Engineering					
5	Practical - I	ZOO-105P	Paper 1 & 3	Lab-1	6	4		100	100
6	Practical - II	ZOO-106P	Paper 2 & 4	Lab-2	6	4		100	100
Total					36	24	80	520	600
7	Audit Course-I				0	0	100	0	0

\*All CORE Papers are Mandatory

Compulsory Foundation - Choose one paper

Elective Foundation - Choose one paper

Audit Course – 100 marks (Internal) – Zero Credits under self study

Interested students may register for MOOC with the approval of the concerned DDC but it will be considered for the award of the grade as open elective only giving extra credits.

  
**DIRECTOR**  
 Centre for Distance and  
 Online Education (CDOE)  
 Sri Venkateswara University  
 TIRUPATI - 517 502.



  
**REGISTRAR**  
**S.V. UNIVERSITY**  
**TIRUPATI**

## Semester – II

S.No	Components of Study	Title of the Course	Status of Paper	Title of the Paper	Credit Hrs / Week	Number of Credits	IA Marks	Semester End Marks	Total
1	Core*	ZOO-201	Mandatory	Molecular Biology	6	4	20	80	100
2		ZOO-202	Mandatory	Cell Biology & Immunology	6	4	20	80	100
3	Compulsory Foundation	ZOO-203A	Optional -1	Neurobiology & Animal Behavior	6	4	20	80	100
		ZOO-203B		Bioinformatics & Biostatistics					
4	Elective Foundation	ZOO-204A	Optional -1	Enzymology	6	4	20	80	100
		ZOO-204B		Pathobiology					
5	Practical - I	ZOO-205P	Paper 1 & 3	Lab-1	6	4		100	100
6	Practical - II	ZOO-206P	Paper 2 & 4	Lab-2	6	4		100	100
Total					36	24	80	520	600
7	Audit Course-II				0	0	100	0	0

\*All CORE Papers are Mandatory

Compulsory Foundation - Choose one paper

Elective Foundation - Choose one paper

Audit Course – 100 marks (internal) – Zero Credits under self study

Interested students may register for MOOC with the approval of the concerned DDC but it will be considered for the award of the grade as open elective only giving extra credits.

  
**DIRECTOR**  
 Centre for Distance and  
 Online Education (CDOE)  
 Sri Venkateswara University  
 TIRUPATI - 517 502.



  
**REGISTRAR**  
**S.V. UNIVERSITY**  
**TIRUPATI**

### Semester – III

S.No	Components of Study	Title of the Course	Status of Paper	Title of the Paper	Credit Hrs / Week	Number of Credits	IA Marks	Semester End Marks	Total
1	Core*	ZOO-301	Mandatory	Developmental Biology	6	4	20	80	100
2		ZOO-302	Mandatory	Environmental Biology	6	4	20	80	100
3	Generic Elective	ZOO-303A	Optional -1	Animal Biotechnology	6	4	20	80	100
		ZOO-303B		Microbiology					
4	Practical - I	ZOO-304P	Core & Generic Electives	Lab-1	6	4		100	100
5	Skill Oriented Course	ZOO-305	Mandatory (Theory + Practical)	Economic Zoology	6 (3+3)	4	10	90 (40 + 50)	100
6	Open Elective	ZOO-306A	Optional - 1	Environmental Impact Assessment & Green Auditing	6	4	20	80	100
		ZOO-306B		Human Health and Infectious diseases					
Total					36	24	90	510	600

\*All CORE Papers are Mandatory

Generic Elective - Choose two

Core papers and Generic electives opted paper held Practical-I

Skill Oriented Course is Mandatory. Relevant to Society along with practical (10 marks Internal, 40 final theory & 50 for practical's)

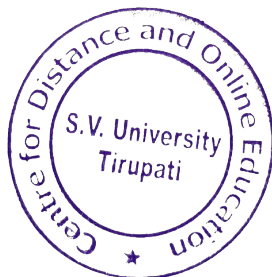
Open Electives are for the Students of other Departments. Minimum One paper should be opted.

Extra credits may be earned by opting

for more number of open electives depending on the interest of the student through self study.

Interested students may register for MOOC with the approval of the concerned DDC.

50  
  
**DIRECTOR**  
 Centre for Distance and  
 Online Education (CDOE)  
 Sri Venkateswara University  
 TIRUPATI - 517 502.



  
**REGISTRAR**  
**S.V. UNIVERSITY**  
**TIRUPATI**

### Semester – IV

S.No	Components of Study	Title of the Course	Status of Paper	Title of the Paper	Credit Hrs / Week	Number of Credits	IA Marks	Semester End Marks	Total
1	Core*	ZOO-401	Mandatory	Toxicology	6	4	20	80	100
2		ZOO-402	Mandatory	Comparative Animal Physiology	6	4	20	80	100
3	Generic Elective	ZOO-403A	Optional -1	Biodiversity and Conservation	6	4	20	80	100
		ZOO-403B		Animal Husbandry and Poultry Farming					
4	Practical - II	ZOO-404P	Core & Generic Electives	Lab-1	6	4		100	100
5	Multi Disciplinary Course / Project Work	ZOO-405	Mandatory (Theory + Practical)	Principles and Practices of Aquaculture	6 (3+3)	4	10	90 (40 + 50)	100
6	Open Elective	ZOO-406A	Optional -1	Environmental Microbiology	6	4	20	80	100
		ZOO-406B		Medical Biotechnology, IPR, Biosafety and Bioethics					
Total					36	24	120	480	600

\*All CORE Papers are Mandatory

Generic Elective - Choose two

Core papers and Generic elective opted paper held Practical-II

Project Work – Collaboration with various firms/companies/societies.

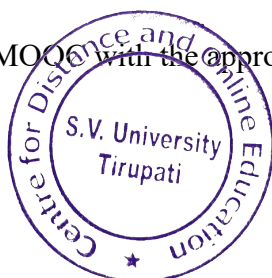
Multi-disciplinary course is Mandatory. Circle formation with other subjects/Dept. of Arts/Commerce

Open Electives are for the Students of other Departments. Minimum One paper should be opted. Extra

credits may be earned by opting for more number of open electives depending on the interest of the student through self study.

Interested students may register for MOQs with the approval of the concerned DDC.

  
**DIRECTOR**  
 Centre for Distance and  
 Online Education (CDOE)  
 Sri Venkateswara University  
 TIRUPATI - 517 502.



  
**REGISTRAR**  
**S.V. UNIVERSITY**  
**TIRUPATI**