DIVERSITY OF SPIDER FAUNA IN UNIVESITY CAMPUS AREA, KIRTIPUR, NEPAL

TARA PAUDEL
T.U. Registration NO: 5-2-22-1597-2007
T.U. Examination Roll No: 18287
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Master of Science in Zoology with special paper Entomology

Submitted to

Central Department of Zoology
Institute of Science and Technology
Tribhuvan University
Kirtipur, Kathmandu
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DECLARATION

I hereby declare that the work presented in this thesis entitled of **"DIVERSITY OF SPIDER FAUNA IN UNIVERSITY CAMPUS AREA, KIRTIPUR, NEPAL"** has been done myself, and has not been submitted elsewhere for the award of any degree. All sources of information have been specifically acknowledged by references to the authors and institutions.

Date……..

……..

TARA PAUDEL

RECOMMENDATION

This is to recommend that the thesis entitled **"DIVERSITY OF SPIDER FAUNA IN UNIVERSITY AREA, KIRTIPUR, NEPAL"** has been carried out by Miss Tara Paudel or the partial fulfillment of Master's Degree of science in Zoology with special paper Entomology. This is her original work and has been carried out under my supervision. To the best of my knowledge, this thesis work has not been submitted for any other degree in any institutions.

Date……

……

Indra Prasad Subedi

Lecturer and Supervisor

Central Department of Zoology

Tribhuvan University

Kirtipur, Kathmandu, Nepal

LETTER OF APPROVAL

On the recommendation of supervisor Lecturer Indra Prasad Subedi, this thesis submitted by Miss Tara Paudel entitled **"DIVERSITY OF SPIDER FAUNA IN UNIVERSITY AREA, KIRTIPUR, NEPAL"** is approved for the examination and submitted to the Tribhuvan University in partial fulfillment of the requirements for Master's Degree of Science in Zoology with special paper Entomology.

Date……

……

Ranjana Gupta, Ph.D.

Professor and Head

Central Department of Zoology

Tribhuvan University of Zoology

Kirtipur, Katmandu, Nepal

CERTIFICATE OF ACCEPTANCE

This thesis work submitted by Miss Tara Paudel entitled **''DIVERSITY OF SPIDER FAUNA IN UNIVERSITY AREA, KIRTIPUR, NEPAL"** has been accepted as a partial fulfillment for the requirements of Master's Degree of Science in Zoology with special paper Entomology.

EVALUATION COMMITTEE

……	**……**
Indra Prasad Subedi	Ranjana Gupta, Ph.D
Lecturer and Supervisor	Professor and Head
Central Department of Zoology	Central Department of Zoology
Tribhuvan University	Tribhuvan University
Kirtipur, Kathmandu, Nepal	Kirtipur, Kathmandu, Nepal

……	**……**
External Examiner	Internal Examiner

Date of Examination: **……**

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LIST OF ABBREVIATIONS

Abbreviated form	Detail of Abbreviations
%	Percentages
∑	Summation
CDZ	Central Department of Zoology
e.g.	Example
IUCN	International Union for Conservation of Nature
km	Kilometer
m	Meter
M.sc	Master in Science
sp	Species
T.U	Thribhuvan University

ABSTRACT

The study of the spider was carried out in University area, Kirtipur during February 2016 to July 2016. Different habitat types including forest, grassland, cultivated and horticulture were selected for sampling. Spider collection was made using pitfall trap and active search method. The objectives of the present study were, to identify the specimens collected from different sampling sites, to determine the diversity and abundance of spiders in different habitats. A total of 642 individuals were recorded under six families, 17 genera and 14 species. Four new species *Nephlia clavata* L. Koch (1878), *N. maculate* Fabricues, (1793), *Cyclosa bifida* Doleschall, (1859), *Gasterocantha mammosa* L. Koch (1844) were recorded inside University area Kirtipur. The abundance of ground spider in grassland habitat was found highest (28.7%) and least in cultivated habitat (21.2%). Genus Pardosa occupied the largest percentage of total collected specimens (33.8%). The diversity index was recorded highest (H'= 1.557) in forest and least in cultivated land (H'= 1.289).