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#### AND

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REGISTRAR Dr. B.R. AMBEDKAR OPEN UNIVERSITY JUBILEE HILLS, HYDERABAD, A.P.

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Sl.No.	Name of the Programme	Course Title	Medium
1.	M.Sc., Botany	All Courses	English
2.	M.Sc., Zoology	All Courses	English
3.	M.Sc., Physics	All Courses	English
4.	M.Sc., Chemistry	All Courses	English

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VARDHAMAN MAHAVEER OPEN UNIVERSITY KOTA, RAJASTHAN

WITNESSES: 1. Ulsbayah 2. Proving 25/5/13

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## Schedule I PG Programme structure

#### I. M.Sc. Botany

#### I YEAR

In the First year the following four courses of Theory and four courses of Practicals are offered.

#### Theory

- Course 1 Biology and Diversity of Viruses, Bacteria and Fungi
- Course- 2 Biology and Diversity of Algae, Bryophyta and Pterzdophyta
- Course -3 Gymnosperms, Taxonomy of Angiosperms and Anatomy
- Course-4 Biochemistry and Plant Physiology

#### Practicals

Course - 1 Biology and Diversity of Viruses, Bacteria and Fungi

Course - 2 Biology and Diversity of Algae, Bryophyta and Pterzdophyta

Course - 3 Gymnosperms, Taxonomy of Angiosperms and Anatomy

Course - 4 Biochemistry and Plant Physiology

#### **II YEAR**

In the Second Year the following four courses of Theory and four courses of Practicals are offered

#### Theory

Course – 5 Cell Biology, Genetics, Biostatistics and Ecology

Course - 6 Medicinal Plants and Embryology of Angiosperms

Course - 7 Applied Mycology and Plant Pathology

Course - 8 Plant Molecular Biology and Biotechnology

#### Practicals

Course – 5 Cell Biology, Genetics, Biostatistics and Ecology

Course - 6 Medicinal Plants and Embryology of Angiosperms

- Course 7 Applied Mycology and Plant Pathology
- Course 8 Plant Molecular Biology and Biotechnology

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## 2. M.Sc. Zoology

#### **I YEAR**

In the First year the following four courses of Theory and four courses of Practicals are offered.

#### Theory

Course-1 Animal Diversity & Ecology

Course- 2 Cell & Molecular Biology

- Course -3 Animal Physiology & Physiological Chemistry
- Course- 4 Human Cytogenetics & Developmental Biology

#### Practicals

Course-1 Animal Diversity & Ecology

Course-2 Cell & Molecular Biology

Course -3 Animal Physiology & Physiological Chemistry

Course- 4 Human Cytogenetics & Developmental Biology

#### **II YEAR**

In the Second Year the following four courses of Theory and four courses of Practicals are offered. Students will take three compulsory courses and opt 1 course out of 2 optional courses.

#### Theory

Course – 5 Immunology Course – 6 Animal Biotechnology Course – 7 Toxicology

#### Practicals

Course – 5 Immunology Course – 6 Animal Biotechnology Course – 7 Toxicology

#### **OPTIONAL COURSES**

#### Theory

Course – 8 A : Applied Entomology OR Course - 8 B : Applied Aquaculture

#### Practicals

Course – 8 A Applied Entomology OR Course – 8B Applied Aquaculture

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## 3. M.Sc. Physics

#### I YEAR

In the First year the following four courses of Theory and four courses of Practicals are offered.

#### Theory

Course-1 Mathematical Physics and Classical Mechanics

Course- 2 Statistical Mechanics and Quantum Mechanics

Course -3 Solid State Physics

Course- 4 Semiconductor Devices, Analog and Digital Electronics

#### Practicals

Course- 1 Heat and Accoustics Course - 2 Optics Course - 3 Basic Electronics Course - 4 Digital Electronics and Computers

#### **II YEAR**

In the Second Year the following four courses of Theory and four courses of Practicals are offered

#### Theory

- Course 5 Nuclear Physics and Analytical Techniques
- Course 6 Electromagnetic Theory and Spectroscopy

Course – 7 Memory Devices and Microprocessors

Course – 8 Microwave Devices and Communication Systems

#### Practicals

- Course 5 Spectroscopy
- Course 6 Modern Physics
- Course 7 Memory Devices and Microprocessors
- Course 8 Microwave Devices and Communication systems

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Vardhaman Mahaveer Open University Kota (Rai.)

## 4. M.Sc. Chemistry

#### I YEAR

In the First year the following four courses of Theory and four courses of Practicals are offered.

#### Theory

Course-1 Inorganic Chemistry Course-2 Organic Chemistry Course-3 Physical Chemistry Course-4 Spectroscopy, Computers & Mathematics/ Biology

#### Practicals

Course - 1 Inorganic Chemistry Course - 2 Organic Chemistry Course - 3 Physical Chemistry Course - 4 Spectroscopy, Computers & Mathematics/ Biology

#### **II YEAR**

In the Second Year the following four courses of Theory and four courses of Practicals are offered

#### Theory

Course - 5 Reaction Mechanisms, Pericyclic reactions, Photo Chemistry and Stereo Chemistry

- Course 6 Synthetic Organic Chemistry
- Course 7 Natural Products, Heterocycles & Spectroscopy
- Course 8 Drugs and Pharmaceuticals

#### Practicals

- Course 5 Separation and Identification of Organic Compounds
- Course 6 Separation Identification of Organic Compounds and Chromatography
- Course 7 Synthesis of Organic Compounds and Isolation of Natural Products
- Course 8 Synthesis and Analysis of Drugs

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## SCHEDULE - II

# Fee Structure of M.Sc. Programmes:

The fee payable in each year will be collected in on installment and this has to be paid at the beginning of the Academic Year.

	Total Amount of Tuition Fee (Rs.)
Subject / Year	
	10,000/-
M.Sc. Botany (First Year)	
	10,000/
M.Sc. Botany (Second Year)	,
	10,000/
M.Sc. Zoology (First Year)	
	10,000/
M.Sc. Zoology (Second Year)	
	10,000/
M.Sc. Physics (First Year)	,
	10,000/
M.Sc. Physics (Second Year)	
	12,000/
M.Sc. Chemistry (First Year)	
	12,000/
M.Sc. Chemistry (Second Year)	,

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