



ANTYODAY MAHAVIDYALAYA, DEVGRAM (Autonomous)

TAH. NARKHED DIST. NAGPUR- 441301 (MS)

Master of Science (M. Sc. Microbiology)			
English Medium			
NEP Pattern			
Timing: 9:00 AM to 3.30 PM			
Two Year Degree Course [M. Sc. I & II (Semester Pattern As Per NEP)]			
Student will have to opt for Subjects as per following Table			
M. Sc. Part-I (Semester- I)			
SR. NO.	Course Category	SUBJECT NAME	CREDITS
1	DSC	T01 Microbial Metabolism	04
2		T02 Enzymology and Techniques	04
3	Elective 1 (DSE)	T03 Advance Technique in Microbiology	04
4	RM	T04 Research Methodology	04
5	LAB 1	P01 Practical I	03
6	LAB 1	P02 Practical II	03
Total Credits			22

Distribution of Marks for Semester Pattern

THEORY (100 MARKS)

- **Continuous Internal Evaluation (CIE) : 20 Marks**
- **Semester End Examination (SEE) 80 Marks**

PRACTICAL (100 MARKS)

- **Continuous Internal Evaluation (CIE) : 50 Marks**
- **Semester End Examination (SEE) : 50 Marks**



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Student will have to opt for Subjects as per following Table			
M. Sc. Part-I (Semester- II)			
SR. NO.	Course Category	SUBJECT NAME	CREDITS
1	DSC	T05 Environmental Microbial Technology	04
2		T06 Immunology and Immunodiagnosics	04
3	Elective 2 (DSE)	T07 Microbial Metabolites	04
4	OJT	P01 On Job Training / Field Project	04
5	LAB 3	P03 Practical III	03
6	LAB 4	P04 Practical IV	03
Total Credits			22

Distribution of Marks for Semester Pattern

THEORY (100 MARKS)

- **Continuous Internal Evaluation (CIE) : 20 Marks**
- **Semester End Examination (SEE) 80 Marks**

PRACTICAL (100 MARKS)

- **Continuous Internal Evaluation (CIE) : 50 Marks**
- **Semester End Examination (SEE) : 50 Marks**

ON JOB TRAINING (100 MARKS)

- **Continuous Internal Evaluation (CIE) : 50 Marks**
- **Semester End Examination (SEE) 50 Marks**

Prof. Jayshri A. Lad
Head Department of Microbiology
Antyoday Mahavidyalaya, Devgram



ANTYODAY MAHAVIDYALAYA, DEVGRAM (Autonomous)

TAH. NARKHED DIST. NAGPUR- 441301 (MS)

Master of Science (M.Sc. Marathi)			
English Medium			
NEP Pattern			
Timing: 9:00 AM to 3.30 PM			
Two Year Degree Course [M. Sc. I & II (Semester Pattern As Per NEP)]			
Student will have to opt for Subjects as per following Table			
M. Sc. Part-II (Semester- III)			
SR. NO.	COURSE CATEGORY	SUBJECT NAME	CREDITS
1	DSC	T08 Microbial Diversity, Evolution & Ecology	04
2		T09 Molecular Biology & Genetics	04
3		T10 Recombinant DNA Technology & Nanobiotechnology	04
4	Elective 1 (DSE)	T11 Drug Disease & Management	04
5	LAB 5	P05 Practical V	02
6	RP	P01 Research Project / Dissertation (Core)	04
Total Credits			22

Distribution of Marks for Semester Pattern

THEORY (100 MARKS)

- **Continuous Internal Evaluation (CIE) : 20 Marks**
- **Semester End Examination (SEE) 80 Marks**

PRACTICAL (100 MARKS)

- **Continuous Internal Evaluation (CIE) : 50 Marks**
- **Semester End Examination (SEE) : 50 Marks**

RESEARCH PROJECT (100 Marks)

- **Continuous Internal Evaluation (CIE) : 50 Marks**
- **Semester End Examination (SEE) : 50 Marks**



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Master of Science (M. Sc. Microbiology)			
English Medium			
NEP Pattern			
Timing: 9:00 AM to 3.30 PM			
Two Year Degree Course [M. Sc. I & II (Semester Pattern As Per NEP)]			
Student will have to opt for Subjects as per following Table			
M. Sc. Part-II (Semester- IV)			
SR. NO.	COURSE CATEGORY	SUBJECT NAME	CREDITS
1	DSC	T12 Virology	04
2		T13 Microbial Fermentation & Techniques	04
3		T14 Medical Microbiology & Parasitology	04
4	Elective 1 (DSE)	T15 Vaccinology	04
5	RP	P02 Research Project / Dissertation (Core)	06
Total Credits			22

Distribution of Marks for Semester Pattern

THEORY (100 MARKS)

- **Continuous Internal Evaluation (CIE) : 20 Marks**
- **Semester End Examination (SEE) 80 Marks**

PRACTICAL (100 MARKS)

- **Continuous Internal Evaluation (CIE) : 50 Marks**
- **Semester End Examination (SEE) : 50 Marks**

RESEARCH PROJECT (200 Marks)

- **Continuous Internal Evaluation (CIE) : 100 Marks**
- **Semester End Examination (SEE) : 100 Marks**

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GENERAL GUIDELINES ABOUT THE PRESCRIBED SYLLABUS

EVALUATION and DISTRIBUTION OF MARKS

(1) Continuous Internal Evaluation (CIE): Twenty (20) marks

- a. Mid-Semester Examination: Maximum Marks 10, Duration of Examination: One Hour, Pattern of Question Paper: Multiple Choice Questions, Mode of examination: Online or offline.
- b. Overall Participation: Maximum 10 Marks (Such as, Attendance in theory classes, seminar, assignment, quiz, participation in field tours, conferences, workshops, and the general behavior in the department.)

Note: Total Marks of CIE will be 20 (i.e., 10+10). A candidate must have to secure minimum 50% marks (i.e., 10 out of 20 marks). Failing so, he/she shall not be allowed to appear in End Semester Examination.

(2) Semester End Examination (SEE)

- a. Theory Paper: Maximum Marks: 80 (Eighty), Duration of Examination-Three Hours, The paper will be set so as to cover all units/sections of the syllabus as below:

Types of Questions	Total No. of questions with Marks	No. of Questions to be	Marks for each Questions	Total Maximum Marks
<ul style="list-style-type: none">• Short answer questions• Long answer questions	4 + 1 = 5 one long question from each unit (16 marks each) or two questions from each unit (8+8=16 marks each) + one short question on each unit (4 marks each)	5	16	80

(3) General Scheme for Distribution of Marks in Practical Examination in Microbiology

Marks: 100 [SEE: 50 Marks] [CIE: 50 Marks]

- a) **Continuous Internal Evaluation (CIE): Fifty (50) marks:** Attendance in practical classes, seminar, assignment, quiz, participation in field tours, conferences, workshops, and the general behaviour in the department

Note: Total Marks of CIE will be 50 marks. A candidate must have to secure minimum 50% marks (i.e., 25 out of 50 marks). Failing so, he/she shall not be allowed to appear in End Semester Examination

- b) **Semester End Examination (SEE):** Time: 5-6 h (Two days Examination)

Exercise-1	15 Marks	- Evaluated jointly by Internal and External Examiner
Exercise-2	15 Marks	- Evaluated jointly by Internal and External Examiner
Record	10 Marks	- Evaluated by Internal
Viva-Voce	10 Marks	- Evaluated by External

Total **50 Marks**

(4) General Scheme for Distribution of Marks in Project Examination in Microbiology

The project work will carry total 100 marks (SEE=50 + CIE=50) in Semester III and 200 marks (SEE=100 + CIE=100) in Semester IV and will be evaluated by both external and internal examiners in the Department. The examiners will evaluate the project work considering the coverage of subject matter, presentation, literature etc.

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