

Dr. Babasaheb Ambedkar Marathwada University
University Campus, Aurangabad-431004, Maharashtra(India),
Recognized by UGC U/s 2(f) and 12(B), NAAC Reaccredited with "A" Grade

Course Structure Scheme

For

Post Graduate, 2 Year(s) Master Degree Program in

Faculty of Science

M.Sc. Biotechnology (With Credit)(M.Sc. Biotechnology) (Credits System)

(P-2016 Subcenter-Regular)
Course Code: -

Approval

Head

Department of Biotechnology Dr.Babasaheb Ambedkar Marathwak University, Sub-Centre Osmanabar

Publisher's Note

This Dr. Babasaheb Ambedkar Marathwada University has great Pleasure in publishing this course structure for Post Graduate course for 2 Year(s) Master Degree Program as "M.Sc. Biotechnology (With Credit)" (P-2016 Subcenter - Regular) under the Faculty of "Faculty of Science".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

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Registrar

Approved

Department of Biotechnology
Or.Babasaheb Ambedkar Marathwad:
University, Sub-Centre Osmanabad

Course Objective(s)

The M.Sc. Biotechnology (With Credit) Consists of following 2 course part(s):

Sr.No.	Course Part Name	Course Part Abbrevation	Examination Pattern
1	First Year	First Year	Semester
2	Second Year	Second Year	Semester

Approad

The M.Sc. Biotechnology (With Credit) is available in following medium of instruction/s:

1. English

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Course Part: First Year Term: First Semester

The papers for First Year - First Semester are classified into following groups:

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1.Compulsory Group (Min Papers: 8, Max Papers: 8,
Separate Passing Head: No. Max. Marks: 650)
Select minimum 8 paper(s)
Select maximum 8 paper(s)
Papers:
                         Constitution of India
          IC 001
                         Biomathematics & Biostatistics
         BTF 1001
                         Biomolecules & Bioenergetics
         BTE 1002
                         Microbiology
         BTE 1003
                         Inheritance Biology
         BTE 1004
                         Research Methodology in Biotechnology
         BTE 1005
                         Practical Based on BT 1003 & BT 1004
          BTEP-II
                         Practical Based on BT 1001 & BT 1002
           BTEP-I
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Term: Second Semester

The papers for First Year - Second Semester are classified into following groups:

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1.Compulsory Group (Min Papers: 8, Max Papers: 8,
Separate Passing Head: No, Max. Marks: 650)
Select minimum 8 paper(s)
Select maximum 8 paper(s)
Papers:
                        Molecular Biology
         BTE 2001
                        Enzyme Technology
         BTE 2002
         BTE 2003
                        Cell Biology
                        Basic Immunlogy
         BTE 2004
         BTE 2005
                        Research Design & Literature Survey
                        Practical Based on BTE 2001 & BTE 2002
          BTEP-III
                        Practical Based on BTE 2003 & BTE 2004
          BTEP-IV
         BTE 2006
                         Seminar
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Course Part: Second Year

Term: Third Semester

The papers for Second Year - Third Semester are classified into following groups:

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1.Elective (Min Subgroups: 1, Max SubGroups: 2,
Separate Passing Head: No, Max. Marks: 700)
Select minimum 1 SubGroup(s)
Select maximum 2 SubGroup(s)
SubGroups:
         1.Compulsory Group (Min Papers: 7, Max Papers: 7,
          Separate Passing Head: No, Max. Marks: 600)
         Select minimum 7 paper(s)
         Select maximum 7 paper(s)
         Papers:
                                  Immunetechnology and Virology
                   BTE 3001
                                  Gene Expression and Genetic Engineering
                   BTE 3002
                                  Developmental Biology
                   BTE 3003
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BTE 3004 Bioinstrumentation **BTE 3005** Research Project / Dissertation-I Practical Based on BTE 3001 & BTE 3002 BTEP-V Practical Based on BTE 3003 & BTE 3004 BTEP-VI

2.Service Course (Min Papers: 1, Max Papers: 1, Separate Passing Head: No, Max. Marks: 100) Select minimum 1 paper(s)

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Select maximum 1 paper(s)		
Papers:		
ENG-SC-131	Communication Skills in English	
CH-SC	Application of Spectroscopy	
WLM-236	Integrated Water Resources Management	
BT-SC III	Fermentation and Environmental Biotechnology	
MIC-SC III	Applied Agricultural Microbiology	
MAN-III	Personality Development	
EDU-SC-01	Stress Management	
SC-01	SC-01	
SC-02	SC-02	
SC-03	SC-03	
SC-04	SC-04	
SC-05	SC-05	

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Term: Fourth Semester

The papers for Second Year - Fourth Semester are classified into following groups:

1.Elective (Min Subgroups: 1, Max SubGroups: 2, Separate Passing Head: No, Max. Marks: 800) Select minimum 1 SubGroup(s) Select maximum 2 SubGroup(s)

SubGroups:

1.Compulsory Group (Min Papers: 6, Max Papers: 6, Separate Passing Head: No, Max. Marks: 700)

Select minimum 6 paper(s) Select maximum 6 paper(s)

Papers:

BTP 4001 Industrial Technology
BTP 4002 Recombinant DNA Technology
BTP 4003 Tissue Technology
BTP 4004 Bioinformatics
BTR 4005 Dissertation-II
BTEP-4000 Practical Based on Paper BTE 4001,4002,4003, &4004

2.Service Course (Min Papers: 1, Max Papers: 1, Separate Passing Head: No, Max. Marks: 100)

Select minimum 1 paper(s) Select maximum 1 paper(s)

Papers:

Applied Medical Microbiology MIC-SC IV Soft Skills ENG-SC-132 CHEM-IV **Analytical Chemistry Event Management** MAN-IV Medical Biotechnology **BTECH-IV** Psychology of Self Development EDU-SC-02 SC-01 SC-01 SC-02 SC-02 SC-03 SC-03 SC-04 SC-04 SC-05 SC-05

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