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 Std 10+2,
3 Year(s) Bachelor Degree Program in

Faculty of Science

Bachelor of Vocation(Bachelor of Vocation(B.Voc.))
(Credits System)

(P-2013-Regular)
Course Code: -

Publisher's Note

This Dr. Babasaheb Ambedkar Marathwada University has great Pleasure in publishing this course structure for Post Std 10+2 course for 3 Year(s) Bachelor Degree Program as "Bachelor of Vocation" (P-2013 - 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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,University Campus, Aurangabad-431004,
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Course Objective(s)

The Bachelor of Vocation Consists of following 3 course part(s):

Sr.No.	Course Part Name	Course Part Abbrevation	Examination Pattern
1	First Year Bachelor of Vocation	First Year	Semester
2	Second Year Bachelor of Vocation	Second Year	Semester
3	Third Year Bachelor of Vocation	Third Year	Semester

The Bachelor of Vocation is available in following medium of instruction/s:

1. English

Course Part: First Year

Term: First Semester

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

> **1.Academic Components** (Min Papers: 8, Max Papers: 8,
> Separate Passing Head: No, Max. Marks: 650)
> Select minimum 8 paper(s)
> Select maximum 8 paper(s)
> Papers:
>
> | | |
> |---|---|
> | VOC-101 | Linguistic Proficiency-I |
> | VOC-102 | Computer Fundamental-I |
> | VOC-103 | Environmental Science |
> | VOC-104 | Mathematics |
> | VOC-105 | Principle of Management & Organizational behavior |
> | VOC-106 | Professinal Ethics & Moral Values |
> | VOC-107 | Laboratory Course-I |
> | VOC-108 | Laboratory Course-II |

Term: Second Semester

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

> **1.Academic Components** (Min Papers: 4, Max Papers: 4,
> Separate Passing Head: No, Max. Marks: 400)
> Select minimum 4 paper(s)
> Select maximum 4 paper(s)
> Papers:
>
> | | |
> |---|---|
> | VOC-201 | Linguistic Proficiency-II |
> | VOC-202 | Computer Fundamental-II |
> | VOC-203 | Life Science |
> | VOC-204 | Indian Economy |
>
> **2.Vocational Components** (Min Subgroups: 1, Max SubGroups: 1,
> Separate Passing Head: No, Max. Marks: 250)
> Select minimum 1 SubGroup(s)
> Select maximum 1 SubGroup(s)
> SubGroups:
>
> > **1.Automobile** (Min Papers: 4, Max Papers: 4,
> > Separate Passing Head: No, Max. Marks: 250)
> > Select minimum 4 paper(s)
> > Select maximum 4 paper(s)
> > Papers:
> >
> > | | |
> > |---|---|
> > | VOC-241 | Voc-I |
> > | VOC-242 | Voc-II(Assignments) |
> > | VOC-243 | Laboratory Course-III |
> > | VOC-244 | Laboratory Course-IV |
> >
> > **2.Finance, Banking and Insurance** (Min Papers: 4, Max Papers: 4,
> > Separate Passing Head: No, Max. Marks: 250)
> > Select minimum 4 paper(s)
> > Select maximum 4 paper(s)
> > Papers:
> >
> > | | |
> > |---|---|
> > | VOC-261 | Voc-I |
> > | VOC-262 | Voc-II(Assignments) |
> > | VOC-263 | Laboratory Course-III |
> > | VOC-264 | Laboratory Course-IV |
> >
> > **3.Industrial Automation** (Min Papers: 4, Max Papers: 4,
> > Separate Passing Head: No, Max. Marks: 250)
> > Select minimum 4 paper(s)
> > Select maximum 4 paper(s)
> > Papers:
> >
> > | | |
> > |---|---|
> > | VOC-211 | Voc-I (Elementary Electrical Technology and Circuit Analysis) |

VOC-212	Voc-II(Assignments)	
VOC-213	Laboratory Course-III	
VOC-214	Laboratory Course-IV	

4.Information and Communication Technology(ICT) (Min Papers: 4, Max Papers: 4,
 Separate Passing Head: No, Max. Marks: 250)
Select minimum 4 paper(s)
Select maximum 4 paper(s)
Papers:

VOC-231	Voc-I
VOC-232	Voc-II(Assignments)
VOC-233	Laboratory Course-III
VOC-234	Laboratory Course-IV

5.Pharmaceutical (Min Papers: 4, Max Papers: 4,
 Separate Passing Head: No, Max. Marks: 250)
Select minimum 4 paper(s)
Select maximum 4 paper(s)
Papers:

VOC-251	Voc-I
VOC-252	Voc-II(Assignments)
VOC-253	Laboratory Course-III
VOC-254	Laboratory Course-IV

6.Travel and Tourism (Min Papers: 4, Max Papers: 4,
 Separate Passing Head: No, Max. Marks: 250)
Select minimum 4 paper(s)
Select maximum 4 paper(s)
Papers:

VOC-221	Voc-I (Introduction to Tourism)
VOC-222	Voc-II(Assignments)
VOC-223	Laboratory Course-III
VOC-224	Laboratory Course-IV

Course Part: Second Year

Term: Third Semester

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

1.Academic Components (Min Papers: 3, Max Papers: 3,
 Separate Passing Head: No, Max. Marks: 300)
Select minimum 3 paper(s)
Select maximum 3 paper(s)
Papers:

VOC-301	Linguistic Proficiency-III
VOC-302	Business Software Tools
VOC-303	Statistics

2.Vocational Components (Min Subgroups: 1, Max SubGroups: 1,
 Separate Passing Head: No, Max. Marks: 350)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)
SubGroups:

1.Automobile (Min Papers: 5, Max Papers: 5,
 Separate Passing Head: No, Max. Marks: 350)
Select minimum 5 paper(s)
Select maximum 5 paper(s)
Papers:

VOC-341	Voc-III
VOC-342	Voc-IV
VOC-343	Voc-V (Assignments)
VOC-344	Laboratory Course-V
VOC-345	Laboratory Course-VI

2.Finance, Banking and Insurance (Min Papers: 5, Max Papers: 5,
 Separate Passing Head: No, Max. Marks: 350)
Select minimum 5 paper(s)
Select maximum 5 paper(s)
Papers:

VOC-361	Voc-III
VOC-362	Voc-IV
VOC-363	Voc-V (Assignments)
VOC-364	Laboratory Course-V
VOC-365	Laboratory Course-VI

3.Industrial Automation (Min Papers: 5, Max Papers: 5,
 Separate Passing Head: No, Max. Marks: 350)
Select minimum 5 paper(s)
Select maximum 5 paper(s)
Papers:

VOC-311	Voc-III(Semiconductor Devices & Liner Integrated Circuits)
VOC-312	Voc-IV(Digital Electronics & Instrumentation)
VOC-313	Voc-V (Assignments)
VOC-314	Laboratory Course-V
VOC-315	Laboratory Course-VI

4.Information and Communication Technology(ICT) (Min Papers: 5, Max Papers: 5,
 Separate Passing Head: No, Max. Marks: 350)
Select minimum 5 paper(s)
Select maximum 5 paper(s)
Papers:

VOC-331	Voc-III
VOC-332	Voc-IV
VOC-333	Voc-V (Assignments)
VOC-334	Laboratory Course-V
VOC-335	Laboratory Course-VI

5.Pharmaceutical (Min Papers: 5, Max Papers: 5,
 Separate Passing Head: No, Max. Marks: 350)
Select minimum 5 paper(s)
Select maximum 5 paper(s)

Papers:

VOC-351	Voc-III
VOC-352	Voc-IV
VOC-353	Voc-V (Assignments)
VOC-354	Laboratory Course-V
VOC-355	Laboratory Course-VI

6.Travel and Tourism (Min Papers: 5, Max Papers: 5,
 Separate Passing Head: No, Max. Marks: 350)
Select minimum 5 paper(s)
Select maximum 5 paper(s)

Papers:

VOC-321	Voc-III(Travel Agency & Tour Operation)
VOC-322	Voc-IV (Travel Documentation)
VOC-323	Voc-V (Assignments)
VOC-324	Laboratory Course-V
VOC-325	Laboratory Course-VI

Term: Fourth Semester

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

1.Compulsory Group (Min Papers: 3, Max Papers: 3,
 Separate Passing Head: No, Max. Marks: 300)
Select minimum 3 paper(s)
Select maximum 3 paper(s)
Papers:

VOC-401	Industrial Ethics and Safety Management (IA)/Ethical,Legal and Regulatory Aspects of Tourism(TT)
VOC-402	Business Software Tools-II
VOC-403	Fundamentals of Business and Accounting

2.Optional Group (Min Subgroups: 1, Max SubGroups: 1,
 Separate Passing Head: No, Max. Marks: 500)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)
SubGroups:

    1.Skill Development Components - Automobile (C) (Min Papers: 5, Max Papers: 5,
     Separate Passing Head: No, Max. Marks: 500)
    Select minimum 5 paper(s)
    Select maximum 5 paper(s)
    Papers:

VOC-431	Voc-VI
VOC-432	Voc-VII
VOC-433	Laboratory Course- VII
VOC-434	Laboratory Course- VIII
VOC-435	In-Plant Internship/field Work/Project

    2.Skill Development Components - Industrial Automation (A) (Min Papers: 5, Max Papers: 5,
     Separate Passing Head: No, Max. Marks: 500)
    Select minimum 5 paper(s)
    Select maximum 5 paper(s)
    Papers:

VOC-411	Voc-VI (Embedded System and PLCs-I)
VOC-412	Voc-VII (Pneumatics and Hydraulics)
VOC-413	Laboratory Course- VII
VOC-414	Laboratory Course- VIII
VOC-415	In-Plant Internship/field Work/Project

    3.Skill Development Components - Travel and Tourism (B) (Min Papers: 5, Max Papers: 5,
     Separate Passing Head: No, Max. Marks: 500)
    Select minimum 5 paper(s)
    Select maximum 5 paper(s)
    Papers:

VOC-421	Voc-VI (Hotel Operation)
VOC-422	Voc-VII (Tourist Transfer Operation)
VOC-423	Laboratory Course- VII
VOC-424	Laboratory Course- VIII
VOC-425	In-Plant Internship/field Work/Project

Course Part: Third Year

Term: Fifth Semester

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

1.Compulsary Group (Min Papers: 4, Max Papers: 4,
 Separate Passing Head: No, Max. Marks: 300)
Select minimum 4 paper(s)
Select maximum 4 paper(s)
Papers:

VOC-501	Personality Development & Stress Management
VOC-502	Labour Laws & Taxation

VOC-503	Business Communication
VOC-504	Product Costing

2.Optional Group (Min Subgroups: 1, Max SubGroups: 1,
 Separate Passing Head: No, Max. Marks: 400)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)
SubGroups:

1.Skill Development Components - Automobile (C) (Min Papers: 5, Max Papers: 5,
 Separate Passing Head: No, Max. Marks: 400)
Select minimum 5 paper(s)
Select maximum 5 paper(s)

Papers:

VOC-531	Voc-IX (Engine Testing)
VOC-532	Voc-X (Farming Automotive & Machinery)
VOC-533	Laboratory Course-IX
VOC-534	Major Project (Phase-I)
VOC-535	In-Plant Internship/Field Work/Project

2.Skill Development Components - Industrial Automation (A) (Min Papers: 5, Max Papers: 5,
 Separate Passing Head: No, Max. Marks: 400)
Select minimum 5 paper(s)
Select maximum 5 paper(s)

Papers:

VOC-511	Voc-IX (Embedded Systems & PLCs-II)
VOC-512	Voc-X (Manufacturing Process & Mechatronics)
VOC-513	Laboratory Course-IX
VOC-514	Major Project (Phase-I)
VOC-515	In-Plant Internship/Field Work/Project

3.Skill Development Components - Travel and Tourism (B) (Min Papers: 5, Max Papers: 5,
 Separate Passing Head: No, Max. Marks: 400)
Select minimum 5 paper(s)
Select maximum 5 paper(s)

Papers:

VOC-521	Voc-IX (Entrepreneurship In Tourism)
VOC-522	Voc-X (Contemporary Issues In Tourism)
VOC-523	Laboratory Course-IX
VOC-524	Major Project (Phase-I)
VOC-525	In-Plant Internship/Field Work/Project

Term: Sixth Semester

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

1.Compulsary Group (Min Papers: 3, Max Papers: 3,
 Separate Passing Head: No, Max. Marks: 300)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

VOC-601	Human Resource Management
VOC-602	Enterpreneurship Development
VOC-603	Workshop Management(for Industrial Automation & Automobile)/Outdoor Management(for Travel & Tourism)

2.Optional Group (Min Subgroups: 1, Max SubGroups: 1,
 Separate Passing Head: No, Max. Marks: 400)
Select minimum 1 SubGroup(s)
Select maximum 1 SubGroup(s)

SubGroups:

1.Skill Development Components - Industrial Automation (A) (Min Papers: 5, Max Papers: 5,
 Separate Passing Head: No, Max. Marks: 400)
Select minimum 5 paper(s)
Select maximum 5 paper(s)

Papers:

VOC-611	Voc-XI(Motion Control and Robotics)
VOC-612	Voc-XII(Process Control and Tools)
VOC-613	Laboratory Course-X
VOC-614	Major Project(Phase-II)
VOC-615	In-Plant Internship/Field Work/Project

2.Skill Development Components - Travel and Tourism (B) (Min Papers: 5, Max Papers: 5,
 Separate Passing Head: No, Max. Marks: 400)
Select minimum 5 paper(s)
Select maximum 5 paper(s)

Papers:

VOC-621	Voc-XI(Tourism Policy & Planning)
VOC-622	Voc-XII(Tourism Administration in India))
VOC-623	Laboratory Course-X
VOC-624	Major Project(Phase-II)
VOC-625	In-Plant Internship/Field Work/Project