



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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Registrar

Course Objective(s)

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

Sr.No.	Course Part Name	Course Part Abbreviation	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	Professional 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.Compulsory 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. 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-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