

S-01 & 02 June, 2016 AC after Circulars from Circular No.100 & onwards

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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**CIRCULAR NO. SU/Sci./B.Sc. Syllabi/6/2016**

It is hereby inform to all concerned that, on the recommendations of the Committees/Ad-hoc Boards the Hon'ble Vice-Chancellor has accepted the following revised syllabi in his emergency powers under Section-14[7] of the Maharashtra Universities Act, 1994 on behalf of the Academic Council as mentioned against their names under the **Faculty of Science** :-

Sr. No.	B.Sc. III Year Revised Syllabi	Semester
[1]	B.Sc. Automobile Technology [Degree Course],	V & VI
[2]	B.Sc. Workshop Technology [Degree Course],	V & VI
[3]	B.Sc. Refrigeration & Air Conditioning [Degree Course],	V & VI
[4]	B.Sc. Bioinformatics [Degree Course].	V & VI
[5]	B.Sc. Biotechnology [Optional],	V & VI
[6]	B.Sc. Horticulture [Optional],	V & VI
[7]	B.Sc. Dry Land Agriculture [Optional],	V & VI
[8]	B.Sc. Sericulture [Optional],	V & VI

This is effective from the **Academic Year 2016-2017** and onwards as appended herewith.

These syllabi are also available on the University Website www.bamu.ac.in

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.

REF.NO.SU/B.Sc./2016/3849-68

Date:- 23-06-2016.

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Director,
*Board of College and
University Development.*

Copy forwarded with compliments to :-

- 1] The Principals, affiliated concerned Colleges,
Dr. Babasaheb Ambedkar Marathwada University.

Copy to :-

- 1] The Controller of Examinations,
- 2] The Section Officer, [B.Sc. Unit],
- 3] The Section Officer, [B.C.S. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The In-Charge, E-Suvidha Kendra, [Professional Unit], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr. Babasaheb Ambedkar Marathwada University,
- 7] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

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**D.R. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Revised Syllabus of

B.Sc. III YEAR

AUTOMOBILE TECHNOLOGY

Semester-V & VI

[Three Year Degree Course]

[Effective from 2016-17 & onwards]

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

APPENDIX – 'A'
B. Sc. (MANUFACTURING PROCESS)/(WORKSHOP TECHNOLOGY)
THIRD YEAR

FIFTH SEMESTER

Paper no.	Name of Paper	Max Marks		Min. Marks for passing		Total Mark
		Theory	Practical	Theory	Practical	
1	Entrepreneurship development program -I	50	--	20	--	50
2	Automobile troubles maintenance and testing -I	50	--	20	--	50
3	Automobile electrical and electronics systems -I	50	--	20	--	50
4	Mechatronics -I	50	--	20	--	50
5	Computer Integrated Manufacturing Systems	50	--	20	--	50
6	Transport Management	50		20		50
7	Project-I	--	50	--	20	50
8	Practical-I based on paper 2	--	50		20	50
9	Practical-II based on paper 3	--	50	--	20	50
10	Practical-III based on paper 4	--	50	--	20	50
11	Practical -IV based on paper 5	--	50	--	20	50
12	Seasonal based on paper 6	--	50	--	20	50
Total		300	300	--	--	600

Total marks 300+ 300= 600

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

APPENDIX – 'A'
B. Sc. (MANUFACTURING PROCESS)/(WORKSHOP TECHNOLOGY)
THIRD YEAR

R-1878: The following shall be the scheme of examination of the Course.

FIFTH SEMESTER

Paper no.	Name of Paper	Scheme and Pattern of Examination					Total Mark
		Teaching Scheme Periods Hr.)			Duration		
		Theory Per week	Pract. Per week	Total	Theory Hrs.	Pract.	
1	Entrepreneurship development program –I	3	--	3	3	--	50
2	Automobile troubles maintenance and testing –I	3	--	3	3	--	50
3	Automobile electrical and electronics systems –I	3	--	3	3	--	50
4	Mechatronics –I	3	--	3	3	--	50
5	Computer Integrated Manufacturing Systems	3	--	3	3	--	50
6	Transport Management	3	--	3	3	--	50
7	Project-I	--	3	3	--	3	50
8	Practical-I based on paper 2	--	3	3	--	3	50
9	Practical-II based on paper 3	--	3	3	--	3	50
10	Practical-III based on paper 4	--	3	3	--	3	50
11	Practical –IV based on paper 5	--	3	3	--	3	50
12	Seasonal based on paper 6	--	3	3	--	3	50
Total		18	18	36	--	--	600

PAPER –VI Transport Management

Teaching Scheme Hours		Evaluation Scheme				Duration for Exam	
Th.	Pr.	Th. Ex.	SW	TW	Total	Theory	Practical
40(3hrs/week)	40(3hrs/week)	50	50	--	100	Two Hrs.	Three Hrs

1. Bus Transport Organization –

Classification road, water and air transport, their advantages and disadvantages. Passenger transport organization set up (MSRTC & Private Organization) urban and rural Transport. Theory of fares- flat fares and telescopic fares, scheduling of bus transport operation (M.S.R.T.C) and crewing. Co ordination between different department and maintenance department, calculation of cost of transport, various factors such as Geographical, social, Economical factor of bus transport operation . Layout of bus station, bus depot.

2. Goods Transport operation -

Basic Elements to transport- The way/ the vehicle, terminals infrastructural facilities. Various factors such as geographical, economical, social.

Goods transport organization – set up (for 1-vehicle, 10-vehicle, 100-vehicle) fixation of cost of transport fixed cost and running cost. Various types of booking- to pay, paid billing. Factors to be consider for scheduling of goods transport, transport and storage of petroleum product.

3. Transport operation –

Various records, log book , trip operation sheet, truck history record, monthly operational performance statement, Goods consignment note, Daily fuel consumption, complaint book room map, use of computer in maintaining the various records.

Control of traffic, speed limit, various important fitness certificate kaizen operation and research.

References:-

- 1] Automobile Engg by K.M. Gupta vol II
- 2] Motor vehicle act 1988
- 3] Elements of Transport by R. J. Eatan
- 4] Motor Transportation by Hudson & constantin
- 5] fundamental principles of road passenger Transport operation by F. G.Fletcher
- 6] Economics of transport by H. R. Bonavia
- 7] Transport in modern India by K.P.Bhatnagar, Satish Bhatnagar, S.C.Gupta.

PROJECT – I / SEMINAR

Teaching Scheme Hours		Evaluation Scheme				Duration for Exam	
Th.	Pr.	Th. Ex.	PR	TW	Total	Theory	Practical
--	40(3hrs/week)	-	50	--	50	--	Three Hrs.

Every individual student shall work on a recent topic selected or assigned from any engineering/allied/applied fields for the seminar of academic or industrial interest. It is expected that the student has to collect information on a topic which is not covered in curriculum of the under graduate course. Student has to refer hand book, research journals, reference books, proceeding of conference through library or internet and record of references considered for seminar is to preserved in hard copy or soft copy, which shall be produced at the time of seminar.

The report of seminar should be submitted in printed volume duly certified by guide, HOD and Principal in prescribed format given below. The student should deliver a seminar talk at least for 20 minutes based on the work done by him/her. The performance will be judged by his guide and another expert appointed by HOD.

INSTRUCTIONS TO PREPARE REPORT AND PPT

1. Seminar report shall be typed on A-4 size white bond paper.
2. Typing shall be with line spacing of 1.5 using black inkjet print on one side of the paper.
3. Margins a) Left 37.5mm b) Right, Top and Bottom 25mm.
4. Page number – At the bottom center aligned 12 point font size.
5. Header and Footer (12 point font size – Times New Roman)
 - a) Header – Right side at top stating title of the seminar.
 - b) Footer – Right side at bottom stating institute name.
6. Font
 - a) Main title font – 14 point – bold – Times New Roman – Upper case
 - b) Sub title font – 12 point – bold - Times New Roman – Title case
 - c) Text font - 12 point – normal - Times New Roman – Running
 - d) Graph / Figure / Table titles – 12 point – normal - Times New Roman – Title case
7. Graph / Figure / Table: - shall be located at the center along with its title and Graph No. / Figure No. / Table No. If Graph / Figure / Table or any information is copied from any of the references, reference no. is to be shown at the end of its title / statement in square bracket superscripted form