

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/Service Course/30/2016**

It is hereby inform to all concerned that, the Choice Based Credit and Grading System have been implemented to the affiliated colleges from the academic year 2015-16 at Post Graduate level for the all Faculties. According to the guidelines of C.B.C. & G.S. it is essential to teach the Service Course to students. The authorities of the university has decided that the service courses run at University Campus and Sub-Center, Osmanabad be apply to the college level. The concerns are inform that to instruct to the students to Choice any one Service Course as per their willingness. Where only one post graduate course they can take the service course of the concerned subject. The syllabi of the service courses are uploaded with the circular on the University website www.bamu.ac.in

The service courses be teach to the students with the **syllabus of IVth-Semester for this year only and hereafter** to teach with the syllabus of III-Semester as per their relevant courses.

This is effective from the academic year 2016-17.


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

University Campus,
Aurangabad-431 004.

REF.NO. SU/SERVICE COURSE /
SYLLA./2016/5117-516

Date:- 02-09-2016.

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Director,
Board of College and
University Development.

Copy forwarded with compliments to:-

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

Copy to :-

- 1] The Controller of Examinations,
 - 6] The Section Officer, [M.A. Unit],
 - 7] The Section Officer, [M.Sc. Unit],
 - 8] The Section Officer, [M.Com. Unit],
 - 9] The Section Officer, [Management Unit],
 - 10] The Section Officer, [Professional Unit],
 - 11] The Section Officer, [Engineering Unit],
 - 3] The Programmer [Computer Unit-1] Examinations,
 - 4] The Programmer [Computer Unit-2] Examinations,
 - 5] The Public Relation Officer,
 - 6] The Co-ordinator, E-Suvidha Kendra, [Rajarshi Shahu Maharaj Pariksha Bhavan,
 - 7] The Record Keeper.
- Dr. Babasaheb Ambedkar Marathwada University,

S*/-150916/-

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



M. Sc. (MATHEMATICS / APPLIED MATHEMATICS)

Service Course

[Academic Year 2016-17 & onwards]

SYLLABUS OF SERVICE COURSE**Course Code : MATS 539****M. Sc. (MATHEMATICS / APPLIED MATHEMATICS)**

Unit 1: Matrices, Definition, operations on matrices, special types of matrices, transpose of a matrix, conjugate of a matrix, determinant of a square matrix, inverse of a square matrix,.

Unit 2: Systems of linear equations, homogeneous, nonhomogeneous systems, solutions of systems of linear equations, solution using matrices, Solutions using Cramer's rule.

Unit 3: Real valued functions, bounded and unbounded functions, limit, continuity and their elementary properties, derivatives, integration and their properties.

Unit 4 Complex numbers, addition, multiplication, argument of a complex number, modulus of a complex number, simple properties.

Related topics from the following books:

- 1) Shantinayakan: Text Book of Matrices, S. Chand and Co.
- 2) Shantinayakan: Differential Calculus, S. Chand and Co.
- 3) Shantinayakan: Integral Clculus, S. Chand and Co.
- 4) Complex Analysis, Schaum Series

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