

**Controller of Examinations
SAMBALPUR UNIVERSITY**

JYOTI VIHAR, BURLA

Sambalpur (Odisha), PIN- 768 019



PHONE and Fax: 0663-2430806

e-mail: coesuniv@gmail.com

Urgent

(Both by ~~post~~ and by e- mail) PK-uw
07/2/18

No. 750 / Acd.-I

Dated: 06/02/18

To

The Principals,

(All the Affiliated Colleges under Sambalpur University having
Three Year Degree Courses excluding Autonomous Colleges.)

Sub: Syllabus for Arts/Science/Commerce (Pass and Hons.) Under CBCS pattern
(UG- Statistics syllabus effective from the 4th Semester onwards for 2016-17 Batch).

Ref :- This office letter No. 9852/ Acd.-I dated 22.12.16

Sir,

In inviting a reference to the letter on the subject cited above, I am directed to intimate you that the Vice- Chancellor has been pleased to approve the **syllabus for Statistics +3 Degree courses under CBCS / B.A./B.Sc. (Both Pass & Hons.) Examinations** under Section 6 (15) of O.U. Act -1989.

The **syllabus will be effective from 4th. Semester onwards for the students admitted during academic session, 2016-17** . For 2017-18 batch students, who have already taken the 1st Semester examination, as per the Syllabus given by the UGC, will continue to follow the same Syllabus for 2nd Semester. After approval of the Academic Council, approved Syllabus will be communicated in due course.

It may be notified and made available to teachers and students concerned. Further you are requested to ensure teaching of the courses in your colleges accordingly. Special care may be taken to avoid any dislocation..

Any error and omission etc. may kindly be intimated to this office.

. Any queries on the matter may be made through e-mail: coesuniv@gmail.com.

Thanking you,

Yours faithfully,

Encl:- As above

PK-uw
06/2/18
Controller of Examinations

AKM

P.T.O.

Memo No. 751 /Acad.-I(BOS), dtd. 06/02/18

Copy forwarded with enclosure for information and necessary action to:

1. The Chairman, Post Graduate Council, Sambalpur University.
2. The H.O.D./ Teacher- in-Charge , P.G. Department of Sanskrit , Sambalpur University.
3. The Director, College Development Council, Sambalpur University.
4. The Director, Directorate of Distance and Continuing Education, Sambalpur University.
5. The Co-ordinator, Private Examination Cell, Sambalpur University.
6. Asst. Registrar (Examination), Sambalpur University.
7. Programmer, University Computer Unit, Sambalpur University.
8. Asst. Controller of Examinations, Sambalpur University.
9. Section Officer / Assistant –in- Charge, *e – Governance Cell*, Sambalpur University with request to provide all the materials in the official web- site accordingly. (**Related to + 3 cbcs-syllabus –~~Sanskrit~~ Final**)
10. Section Officers, Computer Unit, E.G.-I , EG-II , E.C.- I , EC-II,EC- VI Sections.
11. Five spare Copies for Academic-I Sections with enclosure.

P.K. uv
06/2/18
Controller of Examinations

Memo No. 752 /Acad.-I(BOS), dtd. 06/02/18
Copy forwarded without enclosure for information and necessary action to:

1. *The Dy. Director, e – Governance Cell*, Sambalpur University with request for needful to provide all the materials in the official web- site accordingly .
2. P.A. to the Vice- Chancellor, Sambalpur University.
3. P.A. to the Registrar, Sambalpur University.
4. P.A. to the Controller of Examinations, Sambalpur University.

P.K. uv
06/2/18
Controller of Examinations

U.G STATISTICS (Hons.)

Course structure under
CHOICE BASED CREDIT SYSTEM
FOR

SESSION 2016-2019

SAMBALPUR UNIVERSITY

STATISTICS (HONOURS)

SEMESTER-I

C:1-DESCRIPTIVE STATISTICS-I & LINEAR ALGEBRA
(Credits:6, Theory-4, Practical-2) Lectures: 60 (Theory:40, Practical:20)
Max. Marks:100(Theory:75, Practical:25)
End Sem: 60 Marks + Mid Sem: 15 Marks

UNIT-I:

Statistical Methods : Definition & scope of Statistics, concepts of Statistical population and sample, quantitative and qualitative data, attributes, variables, scales of measurement- nominal, ordinal, interval and ratio. Presentation : tabular and graphical including histogram and ogives.

UNIT-II:

Measures of Central Tendency: mathematical and positional. Measures of Dispersion: range, quartile deviation, standard deviation, coefficient of variation, Moments, absolute moments, skewness and kurtosis, Shephards correction.

UNIT-III:

Permutation & Combination, Binomial Theorem, Logarithmic & Exponential Series, Determinant.

UNIT-IV:

Matrices: types of matrices(orthogonal matrix and idempotent matrix); operation on matrices (including inverse); partitioned matrices; singular and non-singular matrices. Rank of a matrix: row-rank and column-rank; properties of rank; rank of sum and product of matrices.

PRACTICAL

Calculation of different measures of Central tendency, dispersion, skewness and kurtosis.

Calculation of Ist. Four moments from grouped and ungrouped data.

Recommended Books:

Intermediate Algebra by Ghanshyam Samal, Vidyapuri Publication, 2007.

A text book of matrices by Shanti Narayan, S. Chand, 1962.

Fundamentals of Statistics by S.C Gupta, Himalayan Publishing House, 2014.

Fundamentals of Mathematical Statistics by S.C. Gupta & V.K. Kapoor, Sultan Chand, 2013.

