



VIDYASAGAR UNIVERSITY

Office of the Secretary, Council for Undergraduate Studies

Midnapore – 721102, Paschim Medinipur, West Bengal.

Ref. No. VU/UG/55(i)/2024

Dated: 11.09.2024

To
The Principal/TIC/OIC(s)
All the affiliated Colleges under
Vidyasagar University

Reg.- Amendment in syllabus of Minor (MI)-02 of B.Com. (Hons.) in Accounting & Finance under CCFUP (NEP)

Sir / Madam,

This for information of all concerned that some **amendments in syllabus of Minor (MI)-02 course of B.Com. (Hons.) in Accounting & Finance** under CCFUP (NEP) have been incorporated with immediate effect.

The amended syllabus of **Minor (MI)-02 'Business Mathematics'** is enclosed herewith. The amended syllabus shall also be uploaded to the University website.

Thanking you with regards,

Sd/-

Secretary
UG Council

Copy forwarded to:

1. The Chairman, UG BOS in Commerce, VU
2. The Controller of Examinations, VU
3. The Inspector of Colleges, VU

Secretary
UG Council



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Amended syllabus of BUSINESS MATHEMATICS (Minor-02) of
B.Com (Hons.) in Accounting & Finance

Course Code	Course Title	Credit	L-T-P	CA	ESE	TOTAL
Minor (MI)-02	Business Mathematics	4	4-0-0	15	60	75

Course contents:

Total Lecture Hours: 60

ALGEBRA:

Unit 1:

(Lecture Hours: 8)

- Indices:** Law of Indices.
- Logarithm:** Definition, Base and Index of Logarithm; General properties of Logarithm; Common problems.

Unit 2:

(Lecture Hours: 10)

- Compound Interest:** Rates of interest – nominal; Different situations of compounding and discounting using different rates.
- Annuities:** Types of Annuities: Ordinary, Due, Deferred, Continuous, Perpetual; Future and Present values of annuities using different rates of interest.

HIGHER ALGEBRA:

Unit 3:

(Lecture Hours: 10)

- Matrices and Determinants:** Algebra of Matrices; Inverse of a Matrix; Solution of system of linear equations (having unique solution and involving not more than three variables) using matrix inversion method; Cramer's Rule for solving equations (up to three variables).

CALCULUS:

Unit 4:

(Lecture Hours: 24)

- Limit and Continuity:** Concept of Function; Concept of Limit and Continuity of a function.
- Derivative:** Concept and rules of differentiation; Maxima and Minima involving second or higher order derivatives; Partial Differentiation up to second order.
- Integration:** Methods of Integration – Definite and Indefinite Integral (basic problems).

Unit 5:

(Lecture Hours: 8)

- Application of Calculus in Business and Economics:** Total Cost Function; Marginal Cost Function; Average Cost Function; Revenue Function; Marginal Revenue Function; Demand Function; Concept of Elasticity.

Suggested Readings:

- Mizrahi, A. & Sullivan, M.. Mathematics for Business and Social Sciences. John Wiley and Sons, New Jersey.



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2. Budnick, P. Applied Mathematics for Business, Economics and Social Sciences, Tata McGraw Hill Education, New Delhi.
3. Wikes, F.M., Mathematics for Business, Finance and Economics. Thomson Learning, USA.
4. Thukral, J.K., Mathematics for Business Studies, Mayur Publications, Delhi.
5. Taha, H. A. Operations Research, Pearson Education, London. a. Vohra, N.D., Quantitative Techniques in Management. McGraw Hill Education, Delhi.
6. Sancheti, D. C. & Kapoor, V. K., Business Mathematics, Sultan Chand & Sons, New Delhi 7. Soni, R. S., Business Mathematics. Ane Books, New Delhi. 8. Singh J. K., Business Mathematics. Himalaya Publishing House, Kolkata.