



Controller of Examinations
SAMBALPUR UNIVERSITY
JYOTI VIHAR, BURLA
Sambalpur (Odisha), PIN-768 019

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By Post & e-mail.

No. 5825 /Acad-I
To

Date, 27/09/18

The Principals,
(All affiliated Colleges having Three Year Degree Courses).

Sub: *Approval of SEC-B and GE Syllabus.*

Sir,

I am directed to intimate you that, the Vice-Chancellor has been pleased to approve –

(1) Banking & Insurance as GE-4 for Commerce Hons. Students, (2) Mushroom Culture Technology as SEC-B for Botany, (3) Graph Theory as SEC-B for Mathematics Hons. Students under 6 (15) of Odisha Universities Act, 1989 giving it effect for the academic session 2016-17 only. This approval will not be extended to the students admitted after 2016-17 academic session.

Further, the Vice-Chancellor has been pleased to approve to include Odisha Economy and Odisha Budget as SEC-B for Hons. Students. The detail syllabus for the said course will be as approved by the Academic Council from time to time and that are communicated to all concerned in routine manner. This has been given with effect from the academic session 2016-17.

The detail syllabus for the Banking and Insurance will be same as prescribed in UGC Model syllabus for B.Com (Hons.) courses. The detail syllabus for Mushroom Culture Technology and Graph Theory are enclosed herewith as Enclosure-I & Enclosure-II respectively.

This is for your kind information and necessary action.

Yours faithfully,

Encl:- As above.

S. Nayak
27/9/18
Controller of Examinations
Black

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Memo No. 5826 /Acad.I

Date: 27/09/18

Copy forwarded with enclosure for information and necessary action to:-

1. Asst. Registrar (Exams.), Sambalpur University.
2. The Programmer, Computer Unit, Sambalpur University.
3. P.A. to Controller of Examinations, Sambalpur University.
4. Section Officers, EG-I/EG-II/EC-I/EC-II/EC-VI/Computer Unit, Sambalpur University.
5. Dealing Assistant, Regulation Seat, Academic-I Section for needful to incorporate it in the CBCS-UG Regulation.
6. The System-in-Charge, e-Governance to notify it in offered website.
7. 05 (five) spare copies to Academic-I Section.

/bkb/c-1/

S Nayak
27/9/18
Controller of Examinations
Blair

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GE-MATH-H-4B**Mathematical Methods**

Theory- 5 Credits, Tutorial-I Credit

Unit-I**INTEGRAL TRANSFORMS:-**

Laplace transforms: Definitions, Properties, Laplace transforms of some elementary functions, Convolution

Theorem, Inverse Laplace transformation, Applications.

Fourier transforms: Definitions, Properties, Fourier transforms of some elementary functions, Convolution,

Unit-II**INTEGRAL EQUATIONS:**

Volterra Integral Equations: Basic concepts, Relationship between Linear differential equations and Volterra integral equations, Resolvent Kernel of Volterra Integral equations, Solution of Integral equations by Resolvent Kernel, The Method of successive approximations.

Unit-III

Fredholm Integral equations: Fredholm equations of the second kind Fundamental, Iterated Kernel Constructing the resolvent Kernel with the aid of iterated Kernels, Integral equations with degenerate Kernels.

REFERENCES:

1. Sneddon J., The use of Integral Transformations (Tata McGraw Hill)
2. Schaum's Series, Laplace Transforms.
3. Ram P Kanwa, Linear Integral Equations (Academic Press)

(SKILL ENHANCEMENT COURSES)**SEC-MATH-H-2A**Graph theory

Theory- 2 Credits

Math (Hons)

Unit-I

Definition, examples and basic properties of graphs, pseudo graphs, complete graphs, bi-partite graphs, isomorphism of graphs

Unit-II

Paths and circuits, Eulerian circuits, Hamiltonian cycles, the adjacency matrix.

Unit-III

Weighted graph, travelling salesman's problem, shortest path, Dijkstra's algorithm, Floyd-Warshall algorithm.