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



PHONE and Fax:0663-2430806 e-mail:coesu2009@gmail.com

By Post & e-mail.

No.

Date, 27/09/18

To

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 Entany, (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 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,

Controller of E.

Encl:- As above.

Cont'd....2/p.

Memo No.

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

- 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.
- The System-in-Charge, e-Governance to notify it in offered website. 6.

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7. 05 (five) spare copies to Academic-I Section.

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Controller of Examinations

SEC-MATH-H-ZA-

Craph 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

1

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

https://mail.gcogle.com/mail/u/0/#inbox/FMfcgxvzk/QrNxHDwzcxVtRcGVlGxZNnL?projector=1&messagePartId=0.2

Skill Enhancement Course Mushroom Culture Technology

(Credits 2)

Lectures: 30

Unit 1: Introduction, history. Nutritional and medicinal value of edible mushrooms; Poisonous, granding mushrooms. Types of edible mushrooms available in India - Volvariella volvaçea, Pleurotus, vai con citrinopileatus, Agaricus bisporus. (5 Lectures)

Unit 2: Cultivation Technology: Infrastructure: substrates (locally available) Polythene bag, vessels, Inoculation hook, inoculation loop, low cost stove, sieves, culture rack, mushroom unit (Thatched house) water sprayer, tray, small polythene bag Pure culture: Medium, sterilization, preparation of spawn, multiplication. Mushroom bed preparation - paddy straw, sugarcane trash, maize straw, banana leaves. Factors affecting the mushroom bed preparation - Low cost technology, Composting technology in mushroom production. (12 Lectures)

Unit 3: Storage and nutrition: Short-term storage (Refrigeration - upto 24 hours) Long term Storage (canning, pickels, papads), drying, storage in saltsolutions. Nutrition - Proteins amino acids, mineral elements nutrition - Carbohydrates, Crude fibre content - Vitamins.

(8 Lectures)

Unit 4: Food Preparation: Types of foods prepared from mushroom Research Centres -National level and Regional level. Cost benefit ratio - Marketing in India and abroad, Export (5 lectures) Value.

Suggested Readings

1. Marimuthu, T. Krishnamoorthy, A.S. Sivaprakasam, K. and Jayarajan. R (1991) Oyster Mushrooms, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore.

2. Swarninathan, M. (1990) Food and Nutrition. Bappeo, The Bangalore Printing and Publishing Co. Ltd., No. 88, Mysore Road, Bangalore - 560018.

3. Tewari, Pankaj Kapoor, S.C., (1988). Mushroom cultivation, Mittal Publications,

4. Nita Bahl (1984-1988) Hand book of Mushrooms, II Edition, Vol. I & Vol. II.

