

बरकतउल्ला विश्वविद्यालय, भोपाल

क्रमांक: 542 /अकादमी/पाठ्यक्रम/अ-1/अधिसूचना/11

भोपाल, दिनांक 7-4-2011

संशोधित अधिसूचना

विश्वविद्यालय द्वारा जारी अधिसूचना क्रमांक 312/13/अकादमी/पाठ्यक्रम/अ-1/अधिसूचना/11 भोपाल दिनांक 28.02.2011 में संशोधन करते हुये अधिसूचित किया जाता है कि बी.एस-सी. षष्ठम सेमेस्टर माइक्रोबायोलॉजी प्रथम एवं द्वितीय प्रश्न पत्र में संशोधन किया जाता है ।

अतः उक्त अधिसूचना के साथ संलग्न पाठ्यक्रम अनुसार ही अग्रिम कार्यवाही सुनिश्चित करने का कष्ट करें ।

(डॉ. बी.भारती)

उप-कुलसचिव (अकादमी)

भोपाल, दिनांक 7-4-2011

पृ.क्रमांक: 543 /अकादमी/पाठ्यक्रम/अ-1/11

प्रतिलिपि :-

1. आयुक्त, उच्च शिक्षा विभाग, संतपुड़ा भवन, भोपाल की ओर प्रेषित ।
2. प्राचार्य, समस्त सम्बद्ध महाविद्यालय, बरकतउल्ला विश्वविद्यालय, भोपाल की ओर सूचनार्थ प्रेषित ।
3. संबंधित विषय के अधिष्ठाताओं की ओर सूचनार्थ ।
4. अधिष्ठाता, छात्र कल्याण विभाग, बरकतउल्ला विश्वविद्यालय की ओर सूचनार्थ ।
5. संबंधित अध्ययन मण्डल के अध्यक्ष एवं समस्त सदस्यों की ओर सूचनार्थ ।
6. उप-कुलसचिव परीक्षा/गोपनीय कक्ष बरकतउल्ला विश्वविद्यालय की ओर सूचनार्थ ।
7. सहायक कुलसचिव, भण्डार कक्ष, बरकतउल्ला विश्वविद्यालय की ओर सूचनार्थ ।
8. संबंधित सहायक परीक्षा/गोपनीय कक्ष की ओर सूचनार्थ ।
9. प्रोग्राम अधिकारी/पात्रता विभाग/मित्र कार्यालय, बरकतउल्ला विश्वविद्यालय की ओर सूचनार्थ ।
10. कुलपति/कुलसचिव के निज सचिव के माध्यम से कुलपति/कुलसचिव की ओर सूचनार्थ ।
11. निज नस्ती ।

उप-कुलसचिव (अकादमी)

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As per model syllabus of U.G.C. New Delhi, Approved
Microbiology BOS.



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Faculty of Life Science
Syllabus & Prescribed Books

B.Sc. Semester Examination 2010-11
VI Semester (Microbiology)
(10+2+3)
(Revised)

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BARKATULLAH UNIVERSITY, BHOPAL

Class : B.Sc. – VI (Microbiology)

Examination Scheme

Paper	Title of paper	Theory CCE	Total
I	Agriculture Microbiology	35 + 15	50
II	Food Microbiology	35 + 15	50
	Practical	50	50
		TOTAL	150

BARKATULLAH VISHWVIDHALAYA

Class	B.Sc.
Semester	VI
Subject	Microbiology
Title of the Paper	Agriculture Microbiology
Paper No.	I
Compulsory/Optional	Compulsory
Max. Marks	35

- Unit-I-** Soil fertility Influence of available Nitrogen (N₂) on soil fertility, Importance of crop rotation.
- Unit-II-** Soil management, management practices, pesticides and their impact on soil fertility, biofertilizer and its importance.
- Unit-III-** Microbial diseases of crop plants like wheat, rice, potato, & papaya.
- Unit-IV-** Control of plant diseases, insecticides, weedicides its uses and harmful effects, Infertility of soil due to use of excessive chemical.
- Unit-V-** Biopesticides, its concept, mechanism & importance, use of integrated pest management (IPM).

Suggested Practicals

- 1) Study of microbial diseases of plants.
- 2) Study of effect of fungicides and insecticides on micro-organisms.
- 3) Study of effect of agrochemicals on soil inhabiting micro-organisms.
- 4) Study of antagonistic activities amongst micro-organisms.

Books

- 1) Modern plant pathology by Bilgramy & Dubey.
- 2) Agriculture Microbiology by Rangaswamy.
- 3) Microbiology by P.D.Sharma.
- 4) Plant Pathology by R.S.Mehrotra.

BARKATULLAH VISHWVIDHALAYA

Class	B.Sc.
Semester	VI
Subject	Microbiology
Title of the Paper	Food Microbiology
Paper No.	II
Compulsory/Optional	Compulsory
Max. Marks	35

- Unit-I-** Introduction of food microbiology, food spoilage mechanism, physical & microbial damage.
- Unit-II-** Harmful effect of bacteria on food, mechanism of microbial spoilage of vegetables, fruits, meat and eggs.
- Unit-III-** Food borne diseases, Microbial spoilage of milk and its prevention.
- Unit-IV-** Food preservation, asepsis, pasteurization, canning, and chemical preservation.
- Unit- V-** Food adulteration its health hazards and regulation by BSI, AGMARK, FAO, & PFA, single cell proteins and its economic importance.

Suggested Practicals

- 1) Study of U.V. radiations on micro-organisms.
- 2) Study of food spoilage micro-organisms from sweets.
- 3) Study of food spoilage micro-organisms from bakery products..
- 4) Study of effect of preservatives on growth of micro-organisms.

Books

- 1) Food Microbiology by Frazier.
- 2) Food Microbiology by James Jay
- 3) Food Microbiology by Potter.
- 4) Industrial Microbiology by Casida.
- 5) Microbiology by Powar & Daginawalla