

UNIVERSITY OF HORTICULTURAL SCIENCES, BAGALKOT

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Office of the Registrar
Udyanagiri, Navanagar
Bagalkot – 587 104
Karnataka

No. R/UHSB/Rectt/Advt.12/2022-23/1270

Date: 31.01.2023

NOTIFICATION

Sub: Notifying the “Syllabus for conducting Written Examination” for recruitment of the Assistant Professor posts in UHS, Bagalkot- reg.

Ref: 1. This Office Recruitment Notification No. R/UHSB/Rectt/Advt.12/2022-23 dated 25.08.2022

2. Approval of the Hon’ble Vice-Chancellor, UHS, Bagalkot dated 31.01.2023



In pursuance of the Recruitment Notification cited at ref.(1), the “Syllabus” for conducting the **Written Examination** for recruitment of the Teaching posts in the cadre of the Assistant Professor in UHS, Bagalkot has been notified as mentioned below. The Written Examination will be conducted for 120 marks and will be converted to **40 marks** as per the Score card prescribed for the aforesaid posts.

1. Assistant Professor of Post Harvest Technology

1	General introduction, principles and practices of post harvest technology
2	Drying of Cereals and Pulses
3	Storage of Cereals and Pulses
4	Post Harvest Technology of Fruits and Vegetables
5	Post Harvest Physiology & Handling of fruits, vegetables, cereals, pulses, oil seeds and other crops.
6	Methods of storage-precooling, pre storage treatments, low temperature storage, controlled atmosphere storage, hypobaric storage, irradiation and low cost storage structures.
7	Various methods of packaging-packaging materials and transport – packaging technology for export. Fabrication of type of containers, cushioning material, vacuum packaging, poly shrink packaging, specific packaging for export of mango, banana, grapes, etc.,

2. Assistant Professor of Food Processing Technology

1	Fundamentals of Food Processing
2	Processing Technology of Fruits and Vegetables
3	Processing Technology of Cereals
4	Processing Technology of Dairy Products
5	Processing Technology of Beverages
6	Processing Technology of Legumes and Oilseeds

7	Processing of Meat and Poultry Products
8	Processing of Fish and Marine Products
9	Bakery, Confectionery and Snack Products
10	Food Packaging Technology and Equipment
11	Processing Technology of Spice and Plantation Crops
12	Sensory Evaluation of Food Products
13	Specialty and Functional Foods
14	Utilization of By-products of Food Industry

2. Assistant Professor of Food Engineering

1	Food Thermodynamics
2	Heat and Mass Transfer in Food Processing
3	Unit Operations in Food Processing-I
4	Unit Operations in Food Processing-II
5	Food Refrigeration and Cold Chain
6	Food Storage Engineering
7	Food Process Equipment Design
8	Instrumental and Process Control in Food Industry
9	Food Plant, Design and Layout

3. Assistant Professor of Food Safety and Quality

1	Fundamentals of Microbiology
2	Food Microbiology
3	Industrial Microbiology
4	Food Biochemistry and Nutrition
5	Food Quality, Safety Standards and Certification
6	Instrumental Techniques in Food Analysis
7	Food Biotechnology
8	Food Additives and Preservatives
9	Food Plant Sanitation

5. Assistant Professor of Electrical and Electronics Engineering

1	Analog & digital electronics
2	Control systems
3	Electrical Machines
4	Electrical & Electronic measurements
5	Field theory & Energy resources
6	Generation, transmission & distribution
7	Power electronics

6. Assistant Professor of Mathematics

1	Vector Calculus, Fourier series, Fourier transform, Laplace transforms, Groups, Rmps & Field Theory, Tripometry, Allegation problems
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7. Assistant Professor of Mechanical Engineering

1	Thermodynamics
2	Fluid mechanics
3	Turbomachines
4	Heat and Mass transfer
5	Steam boilers & Turbines

8. Assistant Professor of Agri. Business Management

1	Introduction to Economics & Business Management
2	Marketing Management and International Trade
3	Project Preparation and Management
4	Entrepreneurship Development

9. Assistant Professor of Horticulture / SMS (Horticulture)

1	Scope, importance, area and production of horticultural crops.
2	Production technology of horticultural crops including pests and diseases, post harvest practices.
3	Nutritional importance, nutraceutical values, botanical classification, floral biology and fruit set in horticultural crops.
4	Fundamentals of orchards, plant propagation, training and pruning, nutrient and irrigation management
5	Protected cultivation and precision farming of high value horticultural crops.
6	Post harvest management, processing and storage, export-import of horticulture crops.

10. Assistant Professor of Physical Education

1	Meaning & definition of Physical Education, Sports & Yoga
2	Aim, objectives and importance of Physical Education, Sports and Yoga
3	History of Physical Education, Sports & Yoga, Ancient Greece, Ancient & Modern Olympics, Asian Games & Common Wealth Games
4	Post Independence period-Various Policies, Institution, SAI, Khelo India, Fit India Movement
5	Modern trends in Physical Education, Sports & Yoga, Sports Laws in India
6	Sports injuries, Sports medicine & related issues-Physiotherapy, Sports Psychology
7	Current events, records & procedures of different Athletic events & Games
8	Officiating & Coaching, Sports nutrition & Computer application in Physical Education

The above Syllabus prescribed is subject to the approval of the Hon'ble Board of Management, UHS, Bagalkot.

The said "Syllabus" is uploaded in the University website
<https://uhsbagalkot.karnataka.gov.in/>

BY ORDER,



REGISTRAR
UHS, BAGALKOT

To,

All the concerned.

Cwc to: All the Officers, UHS, Bagalkot .

Copy to: The Personal Secretary to Hon'ble Vice-Chancellor, UHS, Bagalkot