


UNIVERSITY OF MYSORE
Estd. 1916

VishwavidyanilayaKaryasoudha
Crawford Hall, Mysuru- 570 005

No.AC2(S)/319/2023-24

Dated: 08.11.2023

Notification

Sub:- Introduction of new Open Elective Course/Paper “Sugarcane and Jaggery”
Syllabus of Sugar Technology (PG) programme with effect from
the Academic year 2023-24.

- Ref:-**
1. Decision of Board of Studies in Sugar Technology (PG)
held on 10-02-2023.
 2. Decision of the Faculty of Science & Technology meeting
held on 15-03-2023.
 3. Decision of the Academic Council meeting held on 24-03-2023.

The Board of Studies in Sugar Technology (PG) which met on 10-02-2023 has resolved to recommended and approved the new open elective Course/Paper “Sugarcane and Jaggery” syllabus of Sugar Technology (PG) Programme with effect from the academic year 2023-24.

The Faculty of Science & Technology and Academic Council at their meetings held on 15-03-2023 and 24-03-2023 respectively has also approved the above said syllabus. Hence, it is hereby notified.

The syllabus contents may be downloaded from the University Website i.e., www.uni-mysore.ac.in.


Registrar
Registrar
University of Mysore
Mysore ✓

To:

1. The Registrar (Evaluation), University of Mysore, Mysuru.
2. The Chairman, BOS/DOS in Sugar Technology, Sir M. Visvesvaraya PG Centre, Tubinakere, Mandya.
3. The Dean, Faculty of Science & Technology, DoS in Mathematics, MGM.
4. The Director, PMEB, Manasagangothri, Mysuru.
5. Director, College Development Council , Moulya Bhavan, Manasagangothri, Mysuru.
6. The Deputy Registrar/Assistant Registrar/Superintendent, Administrative Branch and Examination Branch, University of Mysore, Mysuru.
7. The PA to Vice-Chancellor/ Registrar/ Registrar (Evaluation), University of Mysore, Mysuru.
8. Office Copy.

Sugarcane and Jaggery. Open Elective (4 credits L: 1: P: 4:0:0)

On completion of the course, the following outcomes are realized

1. One will learn how the Sugarcane is cultivated and jaggery is manufactured
2. One will understand about the socio - Economic impact of jaggery cottage industry
3. One can explore the entrepreneurial opportunities of the cottage industry

UNIT-1

History, origin and distribution of Sugarcane, Sugarcane producing countries in the world. Area under sugarcane in different states of India. Cultivation of sugarcane, brief lectures on climatic requirements, preparation of land, period of sowing, cane seed, methods of planting, germination, tillering, irrigation and maturity of sugarcane crop. Plant Protection Measures for sugarcane- major diseases and pests of sugarcane and their integrated control measures. Harvesting and transportation. Sugarcane varieties suitable for jaggery production. Jaggery from other plant sources.

UNIT-2

Flow Chart for Jaggery Making Process, Open pan and Vacuum Pan System of Jaggery production process; Juice extraction, juice clarification, clarification agents chemical and vegetative clarificants, juice concentration, molding cooling and drying. Technical drawback of traditional method and modern method of jaggery processing. Fuel for jaggery units

UNIT-3

Composition and specification of jaggery, Medicinal properties of jaggery, Jaggery vs Sugar Value added Jaggery products, nutritional value of jaggery, Organic jaggery making process. Varieties/Types of jaggery-solid, liquid and powder jaggery.

UNIT-4

Packaging materials used for jaggery, packing size, keeping period and quality, Food Safety Regulations & Standards for jaggery, marketing and export status of jaggery. Entrepreneurial Opportunities in Jaggery Production.

References

1. Sugarcane crop Management - S.B.Singh, G.P.Rao and S.Eswaramoorthy.
2. Hand Book of Agriculture - Published by I C A R.
3. Agronomy of Sugarcane Principle and Practice - R.L.Yadava.
4. Sugarcane Development: Technological Interface between Tradition and Modernity - Debabrata Das Guptha.
5. Sugarcane Crop Production and Improvement - S. B. Singh, G.P.Rao, S. Solomon and P. Gopla Sundram.

6. Sugarcane in Agriculture and Industry - Dr. Gururaj Hunsigi.

7. Marketing of Jaggery Problems and Prospects - Dr. Puja Sunil Pawar.

8. Jaggery and Khandasari Industry - Present Status, Research and Development Strategies -

Bangalibabu and Singh G B

Signature: *[Handwritten Signature]*
Name: CHAKRAN
Department: Agriculture
University of Mysore
Karnataka - 571402

Signature: *[Handwritten Signature]*
Date: 10/02/2023

Signature: *[Handwritten Signature]*
Date: 10/12/2023