



From,

Prof. A.S. Bagawan
Head of the Department of Chemistry,
M.G.V.C. Arts, Commerce and Science College,
Muddebihal.

To,
The Principal,
M.G.V.C. Arts, Commerce and Science College,
Muddebihal, Dist. Vijayapur

Subject:- Permission to start Certificate Course for the year 2025-26.

Respected Sir,

Certificate Course in Sugar Technology will provide theoretical and practical knowledge to students to develop their skills in the Sugar plant and Sugar manufacturing, and students gain a deeper understanding of the sugarcane use in sugar production.

We are interested in conducting a certificate course for our college B.Sc. final year Chemistry students to train them in Sugar Technology. For this course we would like to invite experienced staff and working official persons as resource persons from "**Balaji Sugars and Chemicals private limited Yaragal**". We will also invite subject experts from nearby colleges as members of board of studies for certificate course. We would like to title the certificate course as, Certificate course in "**SUGAR TECHNOLOGY**". Please discuss with the management and permit to start the above said course. This will help the students and we will take utter care in implementing the course more effectively so that it will help our students in future.

Thanking you.

Date: 03-10-2025

Asst. Prof.
Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212.



S. G. V. C. Vidya Prasarak Trust's,

**Matoshri Gangamma Veerappa Chiniwar
Arts, Commerce & Science College,**

MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)

(Accredited with CGPA of 3.31 on seven point scale at 'A+' Grade)

☎ : 08356220329

FAX : 08356220329



* email : princmgvc@gmail.com * www.mgvcmbl.in *

Ref. No. :

Date : 6-10-2025

To,

Prof. A.S.Bagawan
Head of the Department of Chemistry,
M.G.V.C. Arts, Commerce and Science College,
Muddebihal.

Subject:- Introduction of Certificate course in "SUGAR TECHNOLOGY"
for the year 2025-26

With reference to your letter dated 03-10-2025, regarding starting of certificate course in "SUGAR TECHNOLOGY" under the supervision of your department I am happy to say that the management is permitted to start Certificate course. Guest faculty will be paid remuneration as per rules and contingency expenditures will be borne by the management.

Date: 06-10-2025

PRINCIPAL

M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.



S. G. V. C. Vidya Prasarak Trust's,

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☎ : 08356220329

FAX : 08356220329



* email : prncmgvc@gmail.com * www.mgvcmbi.in *

Ref. No. :

Date : 08-10-2025

Notice

Date: 08-10-2025

Department of Chemistry going to start Certificate Course in "SUGAR TECHNOLOGY" for B.Sc final Chemistry (DSC) students during the year 2025-26. The course is syllabi based on Sugar manufacturing process and use of sugar cane in sugar industry. The students hereby informed to make use of this Golden Opportunity which will help you after your graduation. The interested students may contact Prof A.S.Bagawan Head of the department of Chemistry, Prof U.A.Halyal course Coordinator for admission and other information.


HEAD, DEPT. OF CHEMISTRY
S.G.V.C. COLLEGE MUDDEBIHAL


Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212.


PRINCIPAL,
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212.



SGVCVPT'S

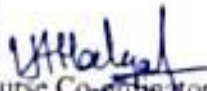
M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL-586212

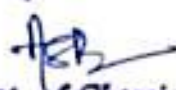
DEPARTMENT OF CHEMISTRY

PANEL OF BOARD OF STUDIES

CERTIFICATE COURSE IN SUGAR TECHNOLOGY

Sl.No.	Name of the faculty	Designation	Address/Office
1	Prin. S.N.Poleshi	Principal	MGVC College, Muddebihal
2.	Prof. A.S.Bagawan	Member	Associate Professor & Head Department of Chemistry M.G.V.C.College, Muddebihal
3.	Prof. U.A.Halyal	Course Co-ordinator	Assistant Professor in Chemistry M.G.V.C.College, Muddebihal
4.	Prof. P.C.Challagi	Member	Assistant Professor in Chemistry M.G.V.C.College, Muddebihal
5.	Shri S. P. Ainapur	Resource person	DGM, Shri Balaji Sugars and Chemicals Pvt. Ltd. Yaragal.


Course Co-ordinator
DEPARTMENT OF CHEMISTRY
M.G.V.C. COLLEGE MUDDEBIHAL


Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212.


PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.



S. G. V. C. Vidya Prasarak Trust's,

**Matoshri Gangamma Veerappa Chiniwar
Arts, Commerce & Science College,**

MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)

(Accredited with CGPA of 3.31 on seven point scale at 'A+' Grade)

Q : 08356220329

FAX : 08356220329



* email : princmgvc@gmail.com * www.mgvcmbl.in *

Ref. No. :

Date : 08-10-2025

To,
Prof. A.S.Bagawan
Associate Professor & HOD of Chemistry
M.G.V.C.College, Muddebihal

**Subject:- Appointment letter as Member of Board of Studies in Certificate Course
"SUGAR TECHNOLOGY"**

Respected sir,

As per the direction of our Management Chairman I am very happy to inform you that, you have been appointed as a Member of board of studies for Certificate Course in "Sugar Technology" during year 2025-26. Please chalk out complete program of the certificate course.

Thanking you,

Date: 08-10-2025

Principal
PRINCIPAL,

**M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212,**



S. G. V. C. Vidya Prasarak Trust's,

**Matoshri Gangamma Veerappa Chiniwar
Arts, Commerce & Science College,**

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(Accredited with CGPA of 3.31 on seven point scale at 'A+' Grade)

☎ : 08356220329

FAX : 08356220329



* email : princmgvc@gmail.com * www.mgvcmbli.in *

Ref. No. :

Date : 08-10-2025

To,
Prof. U.A.Halyal
Assistant Professor Department of Chemistry
M.G.V.C.College, Muddebihal

**Subject :- Appointment letter as Course Coordinator of Certificate Course in
"SUGAR TECHNOLOGY"**

Respected sir,

As per the direction of our Management Chairman I am very happy to inform you that, you have been appointed as a **Course Coordinator of Certificate Course in "SUGAR TECHNOLOGY"** during 2025-26. Please contact Prof. A.S.Bagawan Associate Professor and Head of the Department of Chemistry, to chalk out complete program of the certificate course.

Thanking you,

Date: 08-10-2025

PRINCIPAL,

**M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.**



S. G. V. C. Vidya Prasarak Trust's,

**Matoshri Gangamma Veerappa Chiniwar
Arts, Commerce & Science College,**

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☎ : 08356220329

FAX : 08356220329



* email : princmgvc@gmail.com * www.mgvcmbl.in *

Ref. No. :

Date : 08-10-2025

To,
Prof. P.C.Challagi
Assistant Professor Department of Chemistry
M.G.V.C.College, Muddebihal

**Subject:- Appointment letter as Member of Board of Studies in Certificate Course
"SUGAR TECHNOLOGY"**

Respected sir,

As per the direction of our Management Chairman I am very happy to inform you that, you have been appointed as a Member of board of studies for Certificate Course in "Sugar Technology" during year 2025-26. Please chalk out complete program of the certificate course.

Thanking you,

Date: 08-10-2025

Principal

**M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.**



S. G. V. C. Vidya Prasarak Trust's,

**Matoshri Gangamma Veerappa Chiniwar
Arts, Commerce & Science College,**

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(Accredited with CGPA of 3.31 on seven point scale at 'A+' Grade)

☎ : 08356220329

FAX : 08356220329



* email : princmgvc@gmail.com * www.mgvcmbi.in *

Ref. No. :

Date : 08-10-2025

To,
Shri S. P. Ainapur
Deputy General Manager
Balaji Sugars and Chemicals Prvt. Ltd. Yaragal

**Subject :- Appointment letter as Resource Person for a Certificate Course in
"SUGAR TECHNOLOGY" organized in our college by the Chemistry Department**

Respected sir,

As per the direction of our Management Chairman I am very happy to inform you that, you have been appointed as a Member of Board of Studies in Certificate Course in "SUGAR TECHNOLOGY" during 2025-26. Please guide to Prof. A.S.Bagawan Head Department of Chemistry & Prof A. S. Bagawan course Coordinator and chalk out complete program of the certificate course.

Thanking you,

Date: 08-10-2025

PRINCIPAL,

**M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.**



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M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL-586212
DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN "SUGAR TECHNOLOGY"
REGISTRATION FORM

Name of the Student : Pruthvi Prakash Budni

Father's Name : Prakash Budni

Mobile Number : 8073386877

E - Mail ID : sbnidevibudni@gmail.com

Date of Birth : 01 - 06 - 2004

Course Studying : B.Sc 5th Sem

Contact Address : Near Bus Stand
: Nidagundi
:

Place : Muddebihal

Date : 31/10/2025

Budni
Signature of the Student


Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College,
MUDDEBIHAL - 586212.


PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.



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M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL-586212
DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN "SUGAR TECHNOLOGY"
REGISTRATION FORM

Name of the Student : Ashwini. B. Naykodi
Father's Name : Shantappa
Mobile Number : 8296261287
E-Mail ID : ashwininaykodi707@gmail.com
Date of Birth : 18-05-2005
Course Studying : B.Sc Vth sem
Contact Address : Madikeshwar
:
:
:

Place : Muddebihal

Date : 13/10/2025

B. Naykodi
Signature of the Student

A. B.
Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College,
MUDDEBIHAL - 586212.

D. B.
PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.



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M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL-586212
DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN "SUGAR TECHNOLOGY"
REGISTRATION FORM

Name of the Student : Tasneem . U . Makandar

Father's Name : Usmansha

Mobile Number : 8123450419

E-Mail ID : tasneemmakandar3@gmail.com

Date of Birth : 15-08-2004

Course Studying : B-SC 5th sem

Contact Address : Veeresh Nagan , Nidagundi

: _____

: _____

Place : Muddebihal

Date : 13/10/2025


Signature of the Student


Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212,


PRINCIPAL,
M. G. V. C. Arts, Com. & Science College
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M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL-586212
DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN "SUGAR TECHNOLOGY"

Time Table -2025-26

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
4:00 pm to 5:00 pm	4:00 pm to 5:00 pm	4:00 pm to 5:00 pm	4:00 pm to 5:00 pm	4:00 pm to 5:00 pm	4:00 pm to 5:00 pm

U. H. Balaji
Coordinator
DEPARTMENT OF CHEMISTRY
M.G.V.C. COLLEGE MUDDEBIHAL
A. S. R.
Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

D. S. R.
Principal
M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

Attendance Register

[illegible]



13	U15NU23S0040	Bismilla Makashi	B.I.M	B.I.M	B.I.M	B.I.M	B.I.M	B.I.M	B.I.M	B.I.M	B.I.M	B.I.M	B.I.M	B.I.M	B.I.M	B.I.M	B.I.M
14	U15NU23S0041	Bhoomika	Bhoomi	Bhoomi	Bhoomi	Bhoomi	Bhoomi	Bhoomi	Bhoomi	Bhoomi	Bhoomi	Bhoomi	Bhoomi	Bhoomi	Bhoomi	Bhoomi	Bhoomi
15	U15NU23S0053	Tasneem U Mkandar	Tasneem	Tasneem	Tasneem	Tasneem	Tasneem	Tasneem	Tasneem	Tasneem	Tasneem	Tasneem	Tasneem	Tasneem	Tasneem	Tasneem	Tasneem
16	U15NU23S0059	Goutam Chavan	Goutam	Goutam	Goutam	Goutam	Goutam	Goutam	Goutam	Goutam	Goutam	Goutam	Goutam	Goutam	Goutam	Goutam	Goutam
17	U15NU23S0071	Riyana Tahasildar	Riyana	Riyana	Riyana	Riyana	Riyana	Riyana	Riyana	Riyana	Riyana	Riyana	Riyana	Riyana	Riyana	Riyana	Riyana
18	U15NU23S0082	Timmanna P Walikar	Timmanna	Timmanna	Timmanna	Timmanna	Timmanna	Timmanna	Timmanna	Timmanna	Timmanna	Timmanna	Timmanna	Timmanna	Timmanna	Timmanna	Timmanna
19	U15NU23S0093	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree
20	U15NU23S0096	Humerabegum Dakhani	Humerabegum	Humerabegum	Humerabegum	Humerabegum	Humerabegum	Humerabegum	Humerabegum	Humerabegum	Humerabegum	Humerabegum	Humerabegum	Humerabegum	Humerabegum	Humerabegum	Humerabegum
21	U15NU23S0099	Pruthvi P Budni	Pruthvi	Pruthvi	Pruthvi	Pruthvi	Pruthvi	Pruthvi	Pruthvi	Pruthvi	Pruthvi	Pruthvi	Pruthvi	Pruthvi	Pruthvi	Pruthvi	Pruthvi
22	U15NU23S0109	Renuka Bhajantri	Renuka	Renuka	Renuka	Renuka	Renuka	Renuka	Renuka	Renuka	Renuka	Renuka	Renuka	Renuka	Renuka	Renuka	Renuka

DEPARTMENT OF CHEMISTRY
M.G.V.C. COLLEGE MUDDEBIHAL

Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212

PRINCIPAL
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212



**SGVC VIDYA PRASARAK TRUST'S
M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL-586212
DEPARTMENT OF CHEMISTRY**

About the Sugar Technology Course:

The Industry Certificate in Sugar Technology will provide theoretical and practical knowledge to students to develop their skills in the Sugar plant and Sugar manufacturing, their chemical control, methods of control, differential and inferential methods. They will gain a deeper understanding of the sugarcane in the application of its technology in sugar production. With developed skills in product and process development for the sugar and alcohol production in food industry, students /professionals will be able to work in industry and research Institutes.

In order to enhance the knowledge in the area of Sugar Technology, FFSQ, IGMPI has designed this programme. This is undertaken through theoretical knowledge and practical skill as both are essential to master the field of sugarcane industry.

The objective of this programme is to give knowledge about Mill house control, chemistry involved in sugar processing, purity control check, true purity, brix % calculations etc. that can benefit Sugar industry. On completion of this programme student will be able to explain the advanced processing of sugars at large scale.

Programme Structure

Module 1: Introduction to Sugar Technology

Module 2: Sugar Chemistry

Module 3: Processing of Sugar

Module 4: Types of Sugars

Module 5: Clarification Process in Sugar Manufacturing

Module 6: Crystallization Process

Module 7: Sugar Quality Assurance and Quality Control

Module 8: By-products Utilization

Module 9: Industry based Case Studies

Eligibility: B.Sc. Final year Students

Program Duration

The duration of the training is 15 days.

Registration

The registration dates for this program 10& 11 October 2025


Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212,



M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL-586212
DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE 2025-26

Name of the Student:

Time: 30 Min

Class: B.Sc V Sem

Total Marks: 20

Date: 31-10-2025

Obtained Marks:

-
1. Which of the following is the main raw material for sugar production?
a) Corn b) Sugarcane c) Wheat d) Potato
 2. In the sugar production process, what is the primary purpose of crushing sugarcane?
a) To remove impurities b) To extract juice c) To enhance color d) To increase yield
 3. Which enzyme is commonly used in the sugar industry to convert sucrose into glucose and fructose?
a) Amylase b) Invertase c) Protease d) Lipase
 4. What is the primary function of lime in sugar juice clarification?
a) To increase pH b) To remove dust c) To neutralize acids d) To coagulate impurities
 5. What is the term for the process of separating the sugar crystals from the syrup?
a) Filtration b) Centrifugation c) Evaporation d) Crystallization
 6. Which of the following is the primary by-product of sugar extraction?
a) Ethanol b) Molasses c) Glucose d) Lactose
 7. The process of boiling the clarified juice to concentrate it is called:
a) Clarification b) Evaporation c) Carbonation d) Crystallization
 8. The crystallization of sugar is typically done in which type of equipment?
a) Rotameter b) Vacuum pan c) Column still d) Autoclave
 9. Which of the following is NOT a method for removing color from sugar syrup?
a) Carbonatation b) Decolorization with activated carbon c) Sulfitation d) Filtration
 10. What is the main component of the raw juice extracted from sugarcane?

M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE,
MUDDEBIHAL-586212

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE TEST -OMR



Name of the Student: Deepa Nagaral
Reg No: Deepa Nag U15NU2350011
Date: 31/10/2025

Class: B.Sc V Sem
Time: 4:00 PM to 5:00 PM

1. (a) ☒ (b) ☐ (c) ☐ (d) ☐
2. (a) ☒ (b) ☐ (c) ☐ (d) ☐
3. (a) ☒ (b) ☐ (c) ☐ (d) ☐
4. (a) ☐ (b) ☐ (c) ☐ (d) ☒
5. (a) ☐ (b) ☐ (c) ☒ (d) ☐
6. (a) ☒ (b) ☐ (c) ☐ (d) ☐
7. (a) ☒ (b) ☐ (c) ☐ (d) ☐
8. (a) ☒ (b) ☐ (c) ☐ (d) ☐
9. (a) ☐ (b) ☐ (c) ☐ (d) ☒
10. (a) ☐ (b) ☐ (c) ☒ (d) ☐
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12. (a) ☐ (b) ☒ (c) ☐ (d) ☒
13. ☒ (a) ☐ (b) ☐ (c) ☐ (d) ☐
14. (a) ☐ (b) ☐ (c) ☐ (d) ☒
15. (a) ☐ (b) ☐ (c) ☒ (d) ☐
16. (a) ☒ (b) ☐ (c) ☐ (d) ☐
17. (a) ☐ (b) ☐ (c) ☒ (d) ☐
18. (a) ☐ (b) ☐ (c) ☐ (d) ☒
19. (a) ☒ (b) ☐ (c) ☐ (d) ☐
20. ☒ (a) ☐ (b) ☐ (c) ☐ (d) ☐

18
20
Hbbhgh

Signature of the Student

Deepa

Head, Dep. of Chemistry,
M.G.V.C. Arts, Com. & Science College,
MUDDEBIHAL - 586212.

PRINCIPAL

M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE,
MUDDEBIHAL-586212

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE TEST -OMR



Name of the Student: Heenakousar. Walikar

Reg No: U15NU2350020

Date: 31/10/2025

Class: B.Sc V Sem

Time: 4:00 PM to 5:00 PM

1. (a) ☒ (b) ☐ (c) ☐ (d) ☐
2. ☒ (a) ☐ (b) ☐ (c) ☐ (d) ☐
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17. (a) ☐ (b) ☐ (c) ☒ (d) ☐
18. (a) ☐ (b) ☐ (c) ☒ (d) ☐
19. (a) ☐ (b) ☒ (c) ☐ (d) ☐
20. ☒ (a) ☐ (b) ☐ (c) ☐ (d) ☐

18
20
Heenakousar. Walikar

Signature of the Student

Heenakousar. Walikar

Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL-586212.

M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE,
MUDDEBIHAL-586212

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE TEST -OMR



Name of the Student: Pruthi Prakash Budni

Reg No: U15NU2380099

Date: 31/10/2025

Class: B.Sc V Sem

Time: 4:00 PM to 5:00 PM

1. (a) ☒ (b) ☐ (c) ☐ (d) ☐
2. (a) ☒ (b) ☐ (c) ☐ (d) ☐
3. (a) ☒ (b) ☐ (c) ☐ (d) ☐
4. (a) ☐ (b) ☐ (c) ☐ (d) ☒
5. (a) ☒ (b) ☐ (c) ☐ (d) ☐
6. (a) ☒ (b) ☐ (c) ☐ (d) ☐
7. (a) ☒ (b) ☐ (c) ☐ (d) ☐
8. (a) ☒ (b) ☐ (c) ☐ (d) ☐
9. (a) ☐ (b) ☐ (c) ☐ (d) ☒
10. (a) ☐ (b) ☐ (c) ☒ (d) ☐
11. (a) ☒ (b) ☐ (c) ☐ (d) ☐
12. (a) ☐ (b) ☐ (c) ☐ (d) ☒
13. ☒ (a) ☐ (b) ☐ (c) ☐ (d) ☐
14. (a) ☐ (b) ☐ (c) ☐ (d) ☒
15. (a) ☐ (b) ☐ (c) ☒ (d) ☐
16. (a) ☒ (b) ☐ (c) ☐ (d) ☐
17. (a) ☐ (b) ☐ (c) ☒ (d) ☐
18. (a) ☐ (b) ☐ (c) ☒ (d) ☐
19. (a) ☒ (b) ☐ (c) ☐ (d) ☐
20. ☒ (a) ☐ (b) ☐ (c) ☐ (d) ☐

20
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Pruthi

Signature of the Student

Pruthi

Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College,
MUDDEBIHAL - 586212.

M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE,
MUDDEBIHAL-586212

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE TEST -OMR



Name of the Student: Tasneem . U. Mahandar

Reg No: UISNU2350053

Date: 31/10/ 2025

Class: B.Sc V Sem

Time: 4:00 PM to 5: 00 PM

1. (a) ☒ (b) ☐ (c) ☐ (d) ☐
2. (a) ☒ (b) ☐ (c) ☐ (d) ☐
3. (a) ☒ (b) ☐ (c) ☐ (d) ☐
4. (a) ☐ (b) ☒ (c) ☐ (d) ☐
5. (a) ☒ (b) ☐ (c) ☐ (d) ☐
6. (a) ☒ (b) ☐ (c) ☐ (d) ☐
7. (a) ☒ (b) ☐ (c) ☐ (d) ☐
8. (a) ☒ (b) ☐ (c) ☐ (d) ☐
9. (a) ☐ (b) ☒ (c) ☐ (d) ☐
10. (a) ☐ (b) ☒ (c) ☐ (d) ☐
11. (a) ☒ (b) ☐ (c) ☐ (d) ☐
12. (a) ☐ (b) ☒ (c) ☐ (d) ☐
13. ☒ (a) ☐ (b) ☐ (c) ☐ (d) ☐
14. (a) ☐ (b) ☒ (c) ☐ (d) ☐
15. (a) ☐ (b) ☒ (c) ☐ (d) ☐
16. (a) ☒ (b) ☐ (c) ☐ (d) ☐
17. (a) ☐ (b) ☒ (c) ☐ (d) ☐
18. (a) ☐ (b) ☒ (c) ☐ (d) ☐
19. (a) ☒ (b) ☐ (c) ☐ (d) ☐
20. ☒ (a) ☐ (b) ☐ (c) ☐ (d) ☐

20
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Yashraj

Signature of the Student

Head, Dept of Chemistry,
M.G.V.C. Arts, Com. & Science College,
MUDDEBIHAL - 586212.



M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL-586212
DEPARTMENT OF CHEMISTRY

Course Evaluation Form

Please indicate your level of agreement with the statements listed below.

Sl. No	Statements / Questionnaires	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
1.	The objectives of the course is clearly defined		✓			
2.	Participation and interaction were encouraged	✓				
3.	The teacher was well prepared	✓				
4.	The teacher make the course material interesting	✓				
5.	The teacher uses examples to make the materials easy to understand.		✓			
6.	The teacher was knowledgeable about the course		✓			
7.	The teacher stimulated to interact in the course.	✓				
8.	The time allotted for the course was sufficient.			✓		
9.	The course experience will be useful for research activities.			✓		
10.	The facilities were adequate and comfortable.		✓			

Tasneem .U.M
U15NU2350053

DEPARTMENT OF CHEMISTRY
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MUDDEBIHAL - 586212.



M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL-586212
DEPARTMENT OF CHEMISTRY

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2	Participation and interaction were encouraged		✓			
3	The teacher was well prepared	✓				
4	The teacher make the course material interesting	✓				
5	The teacher uses examples to make the materials easy to understand.	✓				
6	The teacher was knowledgeable about the course		✓			
7	The teacher stimulated to interact in the course.	✓				
8	The time allotted for the course was sufficient.			✓		
9	The course experience will be useful for research activities.		✓			
10	The facilities were adequate and comfortable.			✓		

Aruthi Prakash Budni
U15NU23S0099


DEPARTMENT OF CHEMISTRY
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MUDDEBIHAL - 586212.

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DEPARTMENT OF CHEMISTRY

Course Evaluation Form

Please indicate your level of agreement with the statements listed below.

Sl. No	Statements / Questionnaires	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
1.	The objectives of the course is clearly defined		✓			
2.	Participation and interaction were encouraged		✓			
3.	The teacher was well prepared	✓				
4.	The teacher make the course material interesting	✓				
5.	The teacher uses examples to make the materials easy to understand.	✓				
6.	The teacher was knowledgeable about the course		✓			
7.	The teacher stimulated to interact in the course.	✓				
8.	The time allotted for the course was sufficient.			✓		
9.	The course experience will be useful for research activities.		✓			
10.	The facilities were adequate and comfortable.			✓		

Ashwini Naykodi
UISNU230025

Uttal
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M.G.V.C. COLLEGE MUDDEBIHAL

Head, Dept. of Chemistry.
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

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MUDDEBIHAL - 586212



Course Information

Course Code: MGVC/CHEM/002/2025-26

Instruction Method: Theory Classes, Visit to Balaji Sugars & Chemicals private Limited Yaragal

Taluk: Muddebihal

Fee: Free

Course Duration: 2 Weeks (15 days)

Instructor(s)

1. Prof A S Bagawan
2. Prof U A Halyal

Resource Persons Shri. S. P. Ainapur Deputy General Manager . Balaji Sugars and Chemicals prvt. Ltd. Yaragal Taluk: Muddebihal

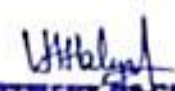
Learner Outcomes

Upon successful completion of the course,

1. They will gain a deeper understanding of the sugarcane in the application of its technology in sugar production. With developed skills in product and process development for the sugar and alcohol production in food industry, students /professionals will be able to work in industry and research Institutes.
2. **What is Sugar Technology:** Sugar Technology is a course that is offered by a lot of institutes in our country. The students can do undergraduate degrees, postgraduate degrees, and also research in Sugar Technology. This subject covers theoretical and practical knowledge about techniques regarding sugar manufacturing it is processing, storing, working with the by-products of sugarcane to produce fuel, and so on.

Course Objectives

1. The main objective of Sugar Technology is to teach students in a scientific way to help them learn about the subject and make them ready for their respective career fields. There are also areas to learn about the wastage of sugar, and by-products as well as reducing losses of fuel made from ethanol to reduce the production cost and increase the overall efficiency of the firm.


DEPARTMENT OF CHEMISTRY
M.G.V.C. COLLEGE MUDDEBIHAL


Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 506212



M.G.V.C ART'S COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL-586212
DEPARTMENT OF CHEMISTRY

Syllabus for certificate course "Sugar Technology"

Unit 1(04 Hrs)

- 1) Introduction to sugar
- 2) Chemistry of sugar, Constituents of sugar, Natural polymers of sugars, Flammability of sugar.
- 3) Types of sugar, Monosaccharides – Glucose, Fructose, Disaccharides - Sucrose, maltose, Lactose
- 4) Sources of sugar, Sugar beet, sugarcane
- 5) Refining of sugars
- 6) Sugar production countries
- 7) Forms of sugar and its use Consumption Health effects of sugar- Blood glucose level - Obesity and Diabetes - Cardiovascular disease- Alzheimer's disease - Tooth decays - Addiction forming - Hyper activity- Measurement

Unit 2 – Carbohydrate..... [03 Hrs]

- Introduction and Classification of Carbohydrates with suitable examples.
- Reactions of Monosaccharide such as a) Mutarotation b) Alkaline degradation c) Rearrangements d) Acidic degradation e) Polymetrisation f) Caramelisation

Unit 3 – Di & Polysaccharides [03 Hrs]

- Structures and properties of sucrose, Maltose, Lactose, Starch & Cellulose (chain structures)

Unit 4 – Physical & Chemical properties of sugar.....(05 Hrs)

- Chemical properties of sucrose :- sucrose molecule, crystalline sucrose, amorphous sucrose, aqueous sucrose.
- Solution (solubility, density, viscosity, surface tension, boiling point, freezing point, rotation of polarized light)
- Physical properties of sucrose :- Structure of the sucrose molecule, sucrose derivatives, decomposition of sucrose



- Physical properties of reducing sugar :- Physical properties of dextrose solution (solubility, density, refractive index, optical rotation) Physical properties of invert sugar (solubility, refractive index, optical rotation)
- Chemical properties of dextrose & laevulose with organic reagent:- Acetone, benzoic, carbonate, acetate.
- Chemical properties of dextrose & laevulose with inorganic reagent:- Phosphate sodium, chloride salt, calciumlevulate.
- Decomposition reaction with alkaline solution & acid solution, oscillation reaction with iodine

Reference Books :

Organic & Sugar Chemistry

- 1 Organic Chemistry : Hendrickson, cram, Hammond
- 2 Organic Chemistry : Morrison & Boyd
- 3 Organic Chemistry : Volume I & II I.L.Finar
- 4 Organic Chemistry : Pine
- 5 Advanced Organic Chemistry : Sachin kumar Ghosh
- 6 Advanced Organic Chemistry : B.S.Bahl & Arun Bahi
- 7 A guide book to Mechanism in organic chemistry : Peter Sykes
- 8 Stereochemistry of organic compounds : Kalsi
- 9 Stereochemistry of Carbon compounds : Eliel
- 10 Text book of organic chemistry : P.L.Soni
- 11 Text book of practical organic chemistry : A.I.Vogel
- 12 Advanced organic chemistry : Reactions, Mechanism & Structure Jerry march
- 13 Organic Chemistry : M.R.Jain
- 14 Organic Chemistry : J.M.Shaigel

18/11/2021
DEPARTMENT OF CHEMISTRY
G.T.C. COLLEGE MUDDESHAL

Asst.
Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College
MUDDESHAL - 586212.

DEPARTMENT OF CHEMISTRY
CERTIFICATE COURSE



Head, Dept. of Chemistry,
K.J. Somaiya Institute of Science & Commerce,
MUMBAI - 400 022.

Head, Dept. of Chemistry,
K.J. Somaiya Institute of Science & Commerce,
MUMBAI - 400 022.



S. G. V. C. Vidya Prasarak Trust's,
**Matoshri Gangamma Veerappa Chiniwar
Arts, Commerce & Science College,**

MUDDEBIHAL-586212. Dist. Vijayapur (Karnataka)
(Accredited with CGPA of 3.31 on seven point scale at 'A+' Grade)
Affiliated to Rani Channamma University, Belgavi



• email : princmgvc@gmail.com • www.mgvcmbi.in • 9035103184 •

Ref. No. :

Date : 31/10/2025

Report on Certificate Course in Chemistry: Sugar Technology

Organized by: Department of Chemistry
MGVC Arts, Commerce and Science College, Muddebihal
In Collaboration with: *Balaji Sugars and Chemicals Pvt. Ltd., Yaragal*
Academic Year: 2025-2026



1. Introduction

The Department of Chemistry, MGVC Arts, Commerce and Science College, Muddebihal, successfully conducted a **Certificate Course in Sugar Technology** under a **Memorandum of Understanding (MoU)** with *Balaji Sugars and Chemicals Pvt. Ltd., Yaragal*.

This course was designed to provide students with an in-depth understanding of the **chemistry and technology of sugar production**, emphasizing both theoretical knowledge and practical industrial exposure. 22 students were registered for the course. Shri.U.A.Halyal served as course Co-coordinator of the certificate course and the course is successfully completed under the guidance of Prof. A.S.Bagwan HoD Department of Chemistry.

2. Objectives of the Course

The major objectives of the course were to:

- Introduce students to the **fundamentals of sugar chemistry** and carbohydrate analysis.
- Provide knowledge of industrial sugar manufacturing processes.
- Expose students to **analytical techniques** used in sugar industries.
- Foster industry-academia collaboration through field visits and expert sessions.
- Develop skills **relevant to employment** in sugar and allied industries.

3. Duration and Structure of the Course

- Duration: 15Hours (2 Weeks Program)
- Mode: Classroom Lectures, Laboratory Practicals.
- Number of Participants: 22
- Coordinator: Shri.U.A.Halyal
- Guidance: Prof.A.S.Bagwan HoD Chemistry
- Industry Partner: Balaji Sugars and Chemicals Pvt. Ltd., Yaragal

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MUDDEBIHAL - 586212.



4. Learning Outcomes

Upon completion of the course, participants were able to:

- Understand the chemistry and processing techniques involved in sugar production.
- Perform analytical tests related to sugar quality assessment.
- Identify and evaluate by-products and their industrial importance.
- Gain insight into sustainable and eco-friendly practices in sugar industries.
- Bridge the gap between theoretical chemistry and industrial applications.

5. Evaluation and Certification

Students were evaluated through:

- **Continuous Assessment:** Attendance, participation, and practical work.
- **Final Evaluation:** Written and practical tests conducted at the end of the course.

Certificates were awarded jointly by **MGV C Arts, Commerce and Science College, Muddebihal**, and **Balaji Sugars and Chemicals Pvt. Ltd., Yaragal** to participants who successfully met all academic and practical requirements.

6. Feedback and Impact

Student feedback indicated a high level of satisfaction with both the content and industrial collaboration. The MoU with Balaji Sugars significantly enhanced the course's practical relevance. The college plans to continue and expand such collaborative programs to strengthen students' employability and applied learning in chemistry.

7. Acknowledgement

The Department of Chemistry sincerely thanks:

- **The Principal, MGVC Arts, Commerce and Science College, Muddebihal**, for continuous support and encouragement.
- **Management and technical staff of Balaji Sugars and Chemicals Pvt. Ltd., Yaragal**, for their cooperation and valuable guidance.
- **Faculty members and students** for their active participation and contribution to the successful completion of this course.

8. Conclusion

The Certificate Course in **Sugar Technology**, conducted under the MoU between **MGV C Arts, Commerce and Science College, Muddebihal**, and **Balaji Sugars and Chemicals Pvt. Ltd., Yaragal**, was a resounding success. It effectively combined academic learning with industrial exposure, empowering students with practical skills and a deeper understanding of applied chemistry.



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S.G.V.C Vidya Prasarak Trust's

**M.G.V.C Arts, Commerce and
Science College, Muddebihal**



IQAC Initiative

Department of Chemistry Organized

Certificate Course on "Sugar Technology"

Academic Year-2025-26

This is to certify that Mr/ Ms _____

_____ has participated in CERTIFICATE

COURSE ON "Sugar Technology" organized by the Department of Chemistry, from

Date: 13-10-2025 to 31-10-2025 .

Shri. U.A. Nayal

Course Coordinator

M.G.V.C. Arts, Commerce &
Science College, Muddebihal

Prof. A.S. Bagawan

Head, Dept of Chemistry

M.G.V.C. Arts, Commerce &
Science College, Muddebihal

Dr. M.L. Biradar

IQAC Coordinator

M.G.V.C. Arts, Commerce &
Science College, Muddebihal

Prof. S.N. Poleshi

Principal

M.G.V.C. Arts, Commerce &
Science College, Muddebihal