

**B. K. BIRLA COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS),
KALYAN**

CERTIFICATE COURSE



Dairy and Food Process and Products Technology

Week 1 : Basic principles and methods of food processing and preservation.

Emerging Technologies in food processing. Food additives and preservatives.

Week 2 : Food laws and standards. Effect of processing on acceptability and nutritive value of food.

Week 3 : Physico-chemical properties and structure of milk and milk constituents.

Week 4 : Chemical and microbial spoilage of milk and milk products; Fluid milk Processing, packaging and distribution.

Week 5 : Common dairy processes – cream separation (standardization), pasteurization, sterilization and Homogenization.

Week 6 : Process technology for manufacture of evaporated milk, condensed milk, dried milk, malted milk, infant and baby foods, ice-cream, cheese, butter, fermented milk and indigenous dairy products.

Week 7 : Methods and procedures for sampling and testing of milk and milk products. Laws and standards for milk and milk products.

Week 8 : Technological processes for industrially manufactured foods of commercial importance, from plant and animal origin.

Week 9 : Cereals, vegetables, fruits, meats, poultry and egg products; Bakery, pasta and confectionary products, ready to eat foods, fermented foods, alcoholic and non-alcoholic Beverages, tea, coffee and cocoa, fabricated foods.

Week 10 : Packaging materials; Characteristics, properties and their design. Packaging requirement for Different processed and unprocessed foods.

Week 11 : Working Principles of various type of fillers : form-fill- seal machine.

Week 12 : Gas packaging and modified atmosphere Package design. Shelf life prediction of foods in packages. Quality control in Food packaging. Product safety and packaging regulations.

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Roll No: NPTEL20AG02S61980385

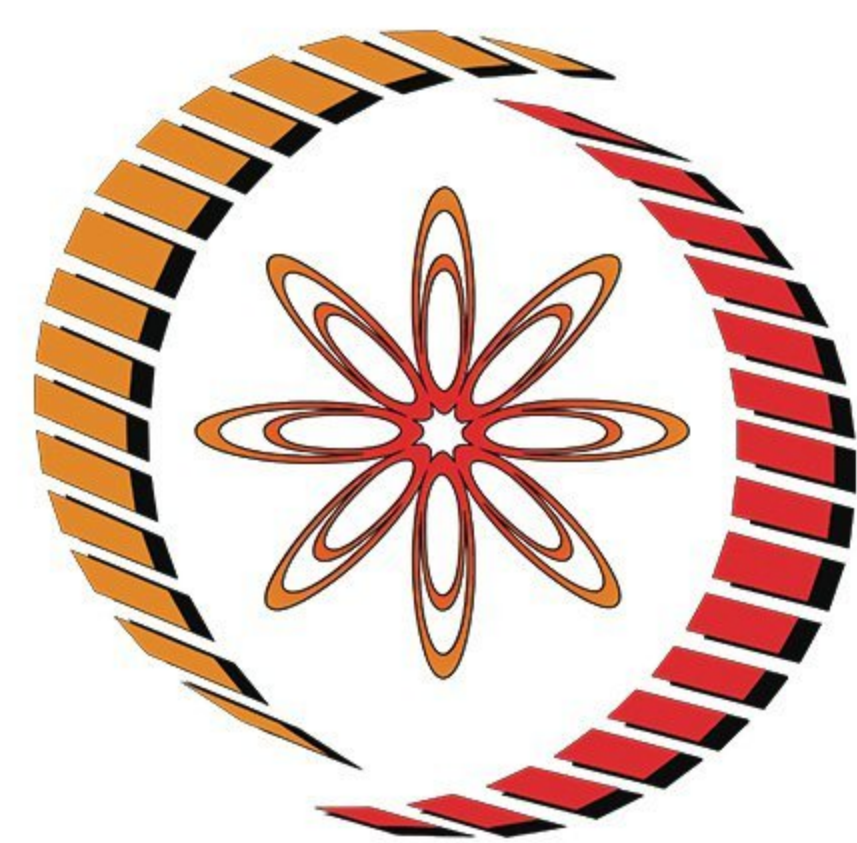
To
ANUSHREE RAMESH GAUTAM
SHANKHESHWAR PRESIDENCY, BLDG NO.3
B-WING, FLAT NO.101, NEAR KDMC WATER
FILTER PLANT
TAWARI PADA, BARAVE ROAD KALYAN WEST
KALYAN
MAHARASHTRA - 421301
PH. NO :9082476948



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
ANUSHREE RAMESH GAUTAM
for successfully completing the course

Dairy and Food Process and Products Technology

with a consolidated score of **63** %

Online Assignments	20.94/25	Proctored Exam	42/75
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Total number of candidates certified in this course: **793**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Dec 2020
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



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Roll No: NPTEL20AG02S61980301

To
ARVIND JAGDISHPRASAD CHANYAL
1480/105 S. K. APT
BHANDARI, NARPOLI
BHIWANDI
MAHARASHTRA - 421302
PH. NO :8459356398

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
ARVIND JAGDISHPRASAD CHANYAL
for successfully completing the course



Dairy and Food Process and Products Technology

with a consolidated score of **86** %

Online Assignments	22.81/25	Proctored Exam	63/75
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Total number of candidates certified in this course: **793**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Dec 2020
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



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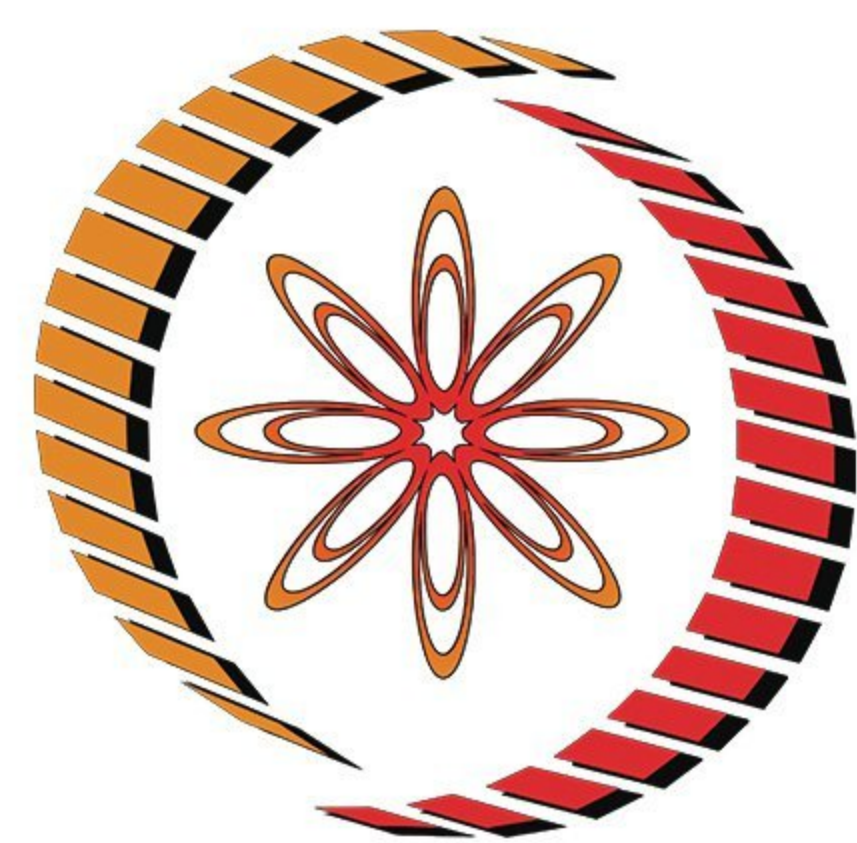
Roll No: NPTEL20AG02S61980411

To
AZMI JAVERIA ABDUL SALAM
HOUSE NO 8, ALMAS COLONY
KAUSA MUMBRA DIST THANE
THANE
MAHARASHTRA - 400612
PH. NO :8655064535

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
AZMI JAVERIA ABDUL SALAM
for successfully completing the course



Dairy and Food Process and Products Technology

with a consolidated score of **82** %

Online Assignments	23.75/25	Proctored Exam	58.5/75
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Total number of candidates certified in this course: **793**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Dec 2020
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20AG02S61980356

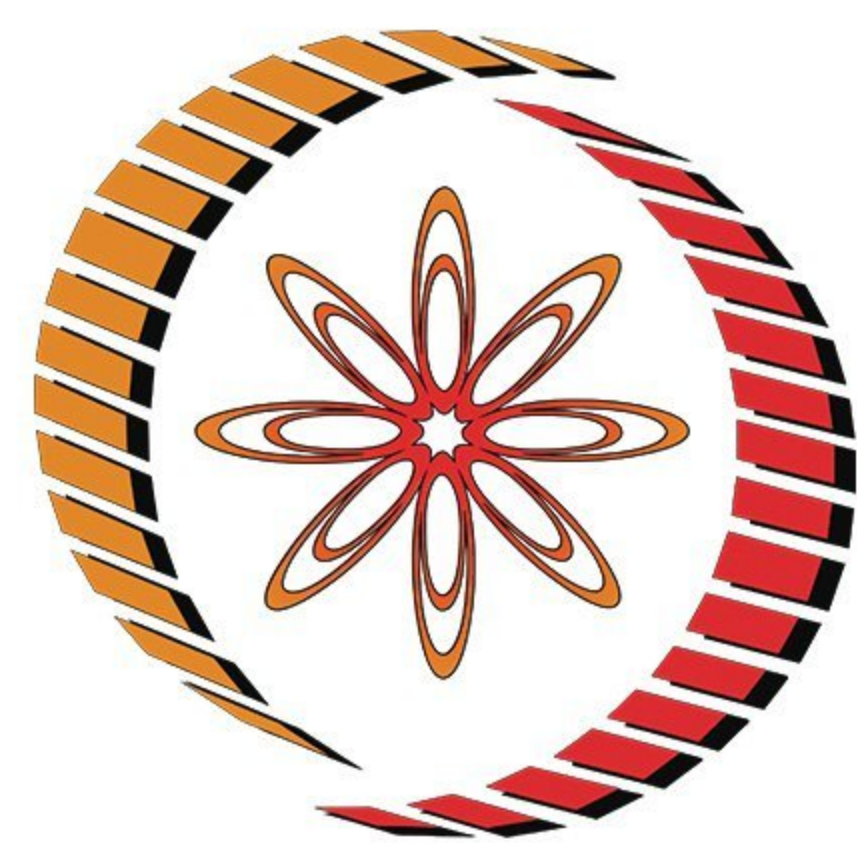
To
KOMAL SANJAY DONGARE
VARSHA COMPLEX FLAT NO.506 B-WING.
KALYAN NAKA ABOVE GORE HOSPITAL,
BHIWANDI
BHIWANDI
MAHARASHTRA - 421302
PH. NO :7841826234



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
KOMAL SANJAY DONGARE
for successfully completing the course

Dairy and Food Process and Products Technology

with a consolidated score of **66** %

Online Assignments	24.06/25	Proctored Exam	42/75
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Total number of candidates certified in this course: **793**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Dec 2020
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://npTEL.ac.in/noc/>

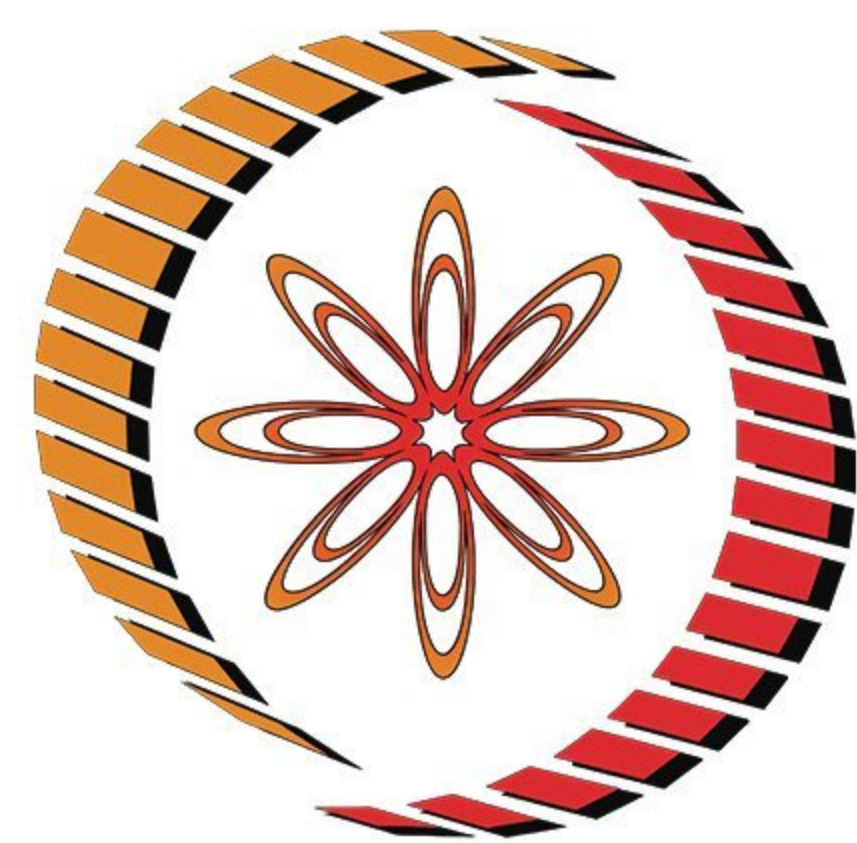
Roll No: NPTEL20AG02S61980445

To
LALITA BALU BORSE
E/WING 601 VEDANT CHS WAYALE NAGAR
KALYAN WEST
KALYAN
MAHARASHTRA - 421301
PH. NO :9867506676

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
LALITA BALU BORSE
for successfully completing the course



Dairy and Food Process and Products Technology

with a consolidated score of **78** %

Online Assignments	22.81/25	Proctored Exam	55.5/75
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Total number of candidates certified in this course: **793**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Dec 2020
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20AG02S61980502

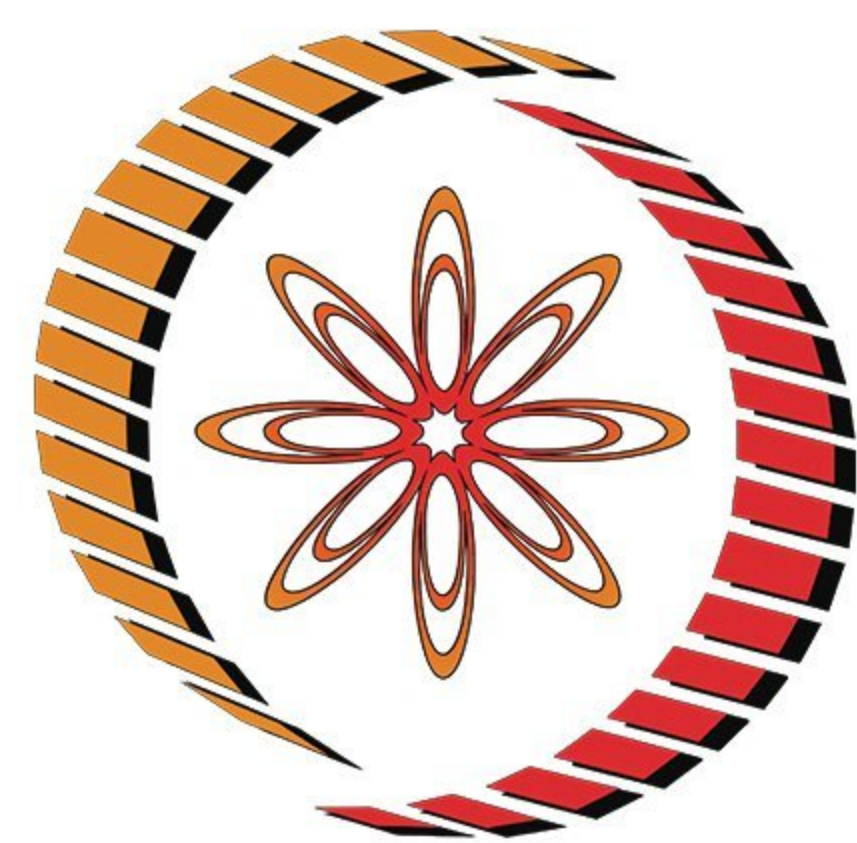
To
RAHUL SONI
604 BHAGYODAY HEIGHT KOLIVALI VILLAGE
NEAR AAMDAR BUNGALOW KALYAN WEST
KALYAN
MAHARASHTRA - 421301
PH. NO :8655425180



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

RAHUL SONI

for successfully completing the course

Dairy and Food Process and Products Technology

with a consolidated score of **60** %

Online Assignments	22.81/25	Proctored Exam	37/75
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Total number of candidates certified in this course: **793**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Dec 2020
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20AG02S61980516

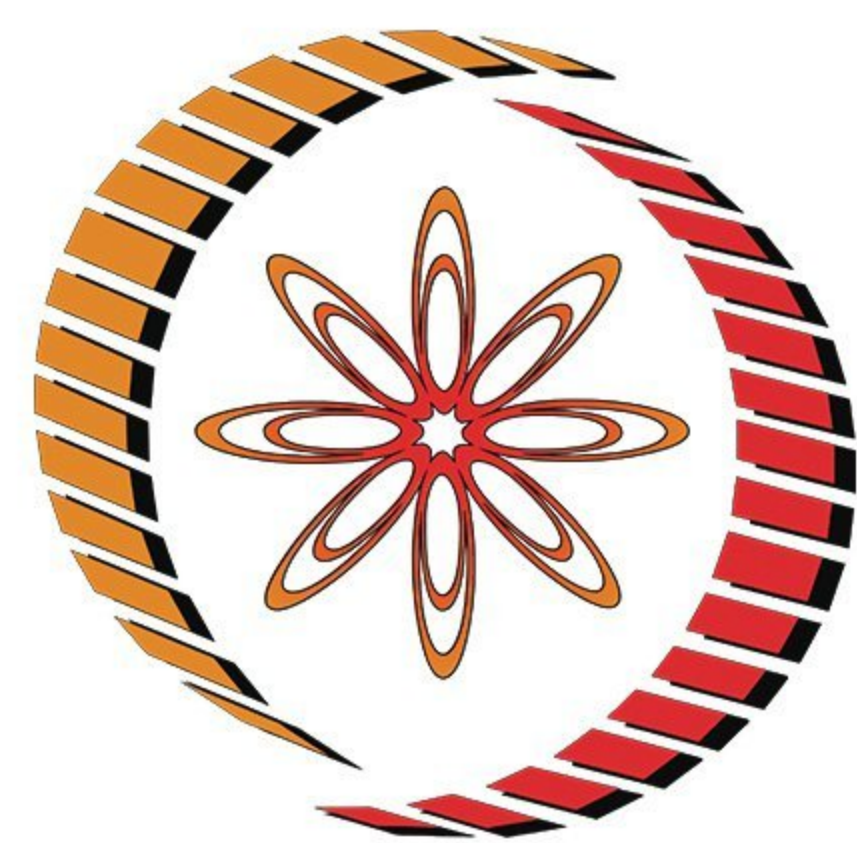
To
SAKSHI SURYAKANT CHAVAN
GOKUL VARSHAV COLONY, RAMBAUG LANE NO. 4
BEHIND GAJANAN HOSPITAL, KALYAN WEST
KALYAN
MAHARASHTRA - 421301
PH. NO :8779287560



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



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NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
SAKSHI SURYAKANT CHAVAN
for successfully completing the course



Dairy and Food Process and Products Technology

with a consolidated score of **75** %

Online Assignments	22.81/25	Proctored Exam	52/75
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Total number of candidates certified in this course: **793**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Dec 2020
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20AG02S61980529

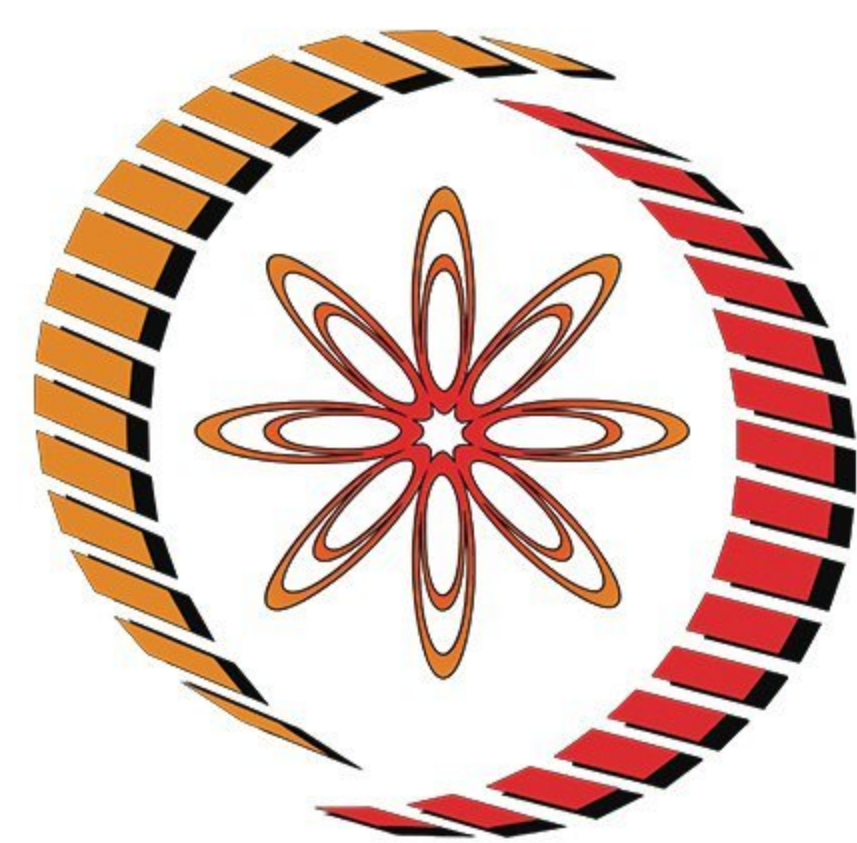
To
SHAIKH RASHDAJABEEN QUAMRUZZAMA
SHAHAD FATAK WARD NO.9 ROOM NO 55
SHIVAJI ROAD
NEAR JAMA MASJID THANE
ULHASNAGAR-421001
ULHASNAGAR
MAHARASHTRA - 421001
PH. NO :7028631760



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



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NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
SHAIKH RASHDAJABEEN QUAMRUZZAMA
for successfully completing the course

Dairy and Food Process and Products Technology

with a consolidated score of **77** %

Online Assignments	22.81/25	Proctored Exam	54/75
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Total number of candidates certified in this course: **793**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Dec 2020
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



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Roll No: NPTEL20AG02S61980535

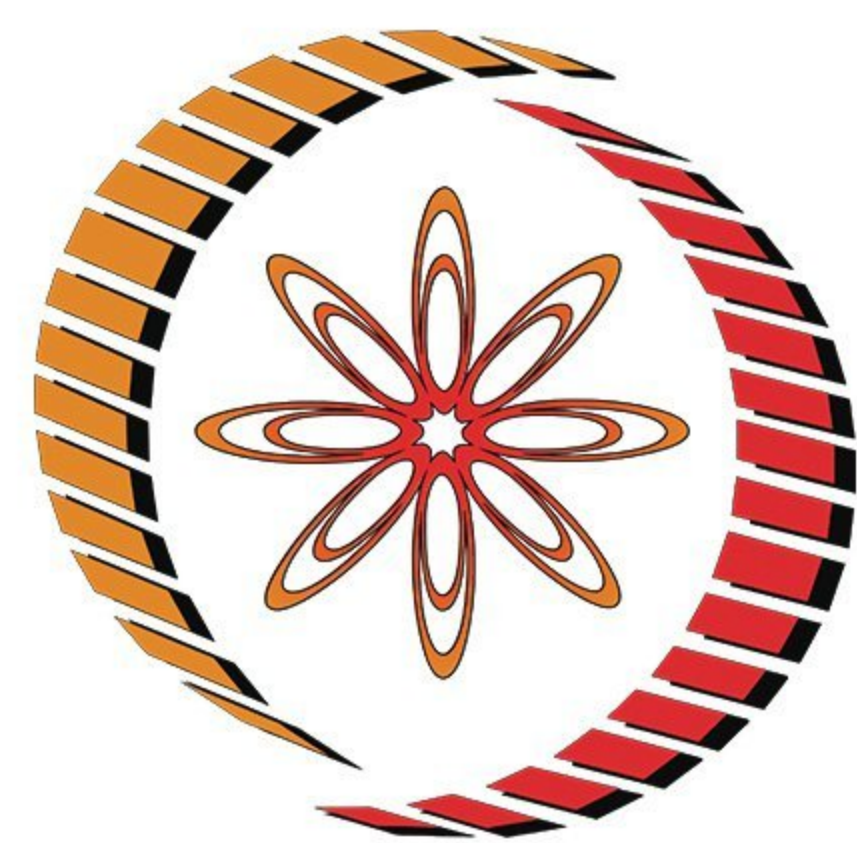
To
SISODIA SHAILJASINGH SURENDRASINGH
C WING AAI EKVEERA RESIDENCY, HAJI
MALANG ROAD, KAKA DHABA
RAJARAM PATIL NAGAR, ADIVALI, GANESH
CHOWK, TEEN BUNGALOW
KALYAN
MAHARASHTRA - 421306
PH. NO :9322327525

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3

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Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
SISODIA SHAILJASINGH SURENDRASINGH
for successfully completing the course

Dairy and Food Process and Products Technology

with a consolidated score of **69** %

Online Assignments	18.13/25	Proctored Exam	51/75
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Total number of candidates certified in this course: **793**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Dec 2020
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur

