#### **CERTIFICATE COURSE**



### Syllabus for Certificate Course: Macromolecules

Title	*	Hrs
Introduction to macromolecules	•3	2 hrs
Carbohydrates- Definition, Classification, Biological Role.		3 hrs
Monosaccharide, oligosaccharide and polysa	accharide	A) end
Proteins-	•	3 hrs
General structures and features of amino acide Peptides and proteins- Definition and general biological role.	l features and examples with	1
Primary, secondary, tertiary and quaternary s	structure of proteins	n
Nucleic acids- Nitrogenous bases- purines and pyrimidines Pentoses- Ribose, Deoxyribose		2 hrs
N-β-glycosidic bond, phosphodiester bonds. Basic structure of RNA and DNA		
	1.	2
Lipids - Classification, structure and function, biologic	cal role	2 hrs

#### Practicals

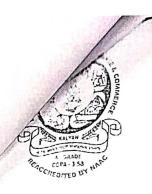
4	Practicals	<b>3</b> ,
ů.	Title	† Hrs
່ Qເ	nalitative and quantitative analysis of carbohydrates	3 hrs
Qua	alitative and quantitative analysis of proteins	3 hrs
Qua	litative and quantitative analysis of nucleic acids	3 hrs
Quali	itative and quantitative analysis of lipids	3 hrs
Result	and interpretation	3 hrs

Graphical representation of results

3 hrs

Lest of Enrolled Students

	7		
Name Vanshita D	Student I d no.	Class and division	Certificate Course Fee receipt number
Vanshita Balasaheb Erande Yaday Analy ik	32230	Fybsc B	4066
· · · · · · · · · · · · · · · · · · ·	33094	F.y bsc/B	4067
JUKIN K and 1	32295	Fybsc DIV B	4068
Waghchaure	32654	Fybsc B	4069
Manjiri Anil Mhatre	33100	Fybsc (microbiology) B	4070
Mayur dewanand sonkusare Harshada Ar	32758	F. Y. Bsc (B)	4071
	33138	Fy.bsc B	4072
—— Gayatrı Anil Mali	37041	F.Y.B.Sc B	4073
Pranay Bidyanath Mishra	32400	FYBsc B	4074
Lenia D'souza	32174	F. Y. B. Sc - B	4075
Rachana Ramesh Gangawane	32737	Fybsc B	4076
Tuba Khan	33089	Fybsc B	4077
Khan Ishrat Asmatullah	30217	SYBSc	4078
Tanvi Patil	27404	S.Y.Bsc (B)	4079
Ayesha shaikh	30144	SYBSc (B)	4080
Soniya Joginder Chauhan	30314	S.Y.Bsc(B)	4081
Vandana pandey	32575	F.Y.B.Sc. A	4082
Deshmukh Tejas Shivaji	32576	FYBSC B	4083
Sanika Satish Kesarkar	32517	F.Y.B.Sc., Div-B	4084
Singh Ayush Ranveer	34447	F.Y.B.SC. (B)	4085
Priyanka kisan patil	32883	Fybsc/B	4086
Reshma singh	27859	Sybsc and B	4087
Rutuja Devendra Pagare	37168	Fybsc B division	4088
Gayatri Sathe	33096	Fybsc B div	4089
Akshata Raikar	30317	SY Bsc and B division	4090



### B. K. Birla College Of Arts, Science And Commerce, Kalyan (Conducted by Kalyan Citizens' Education Society)

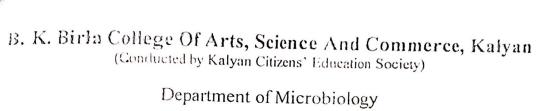
Department of Microbiology

#### Certificate Course in Macromolecules

#### Attendance Sheet

Faculty Name D8- Maninder K. Dhaliwal	
Topic Carbohydrates - Monosaccharidos	
Date:- 28. ©	9.19

Sr. No.	Name	Class	Roll No.	Signature
1	Gayatri Apil Mali	FYBSC	290	G.A.Mal
2	Sanika. S. Kesaykan	F.Y.B.Sc.	213	Sanika
5.	Manjiri Anil Mhatre	F.YBSC-	100	
4	Tuba Nascem Khan	FYBSC	97	gypa re
5	Rachana R. Gangawane	FYBSc	49	alargoore
6.	Zenia C. Dbouza	F-7-B-Sc.	.01	Jenia
7	Vanshita B. Exande	FY.BSC.	202	(Vacord
8.	Yadav Anchal Rajesh	FY BSC	98	Anchal.
9	Manasi Waghchause	FYBSC	218	Tog helding
10	Glayatri Sathe	FYBSC	99	Ore
11.	PEiyanka patil	FYBSC	68	Batil.
12	Mayor D Sonkusare	FYBSC	. 5 <u>5</u>	Means
13.	Teras S. Deshmukh	FYBSC	215-	T.S. Deshmykh
14.	Premay B. Mishea	FYBSC	209	Ruy.
	NIP (	<b>八</b> . , , ,	-	
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	34	rs.		



### Certificate Course in Macromolecules

#### Attendance Sheet

Faculty Name. Dr. M. K. Dhaliwal
Topic. Mauromoleules

Date: - 17 -1 - 2020

Sr. No.	Name	Class	Roll No.	Signature
				1
1.	Ruhija. D. Pagare.	f. 4.8.2(.8.M	292	Ritigo
2.	Sonika · S · Kesasikasi	f. Y.B.S.C. (C.B.M.) CZmicro	213	Sanika
3.	Manjiri. Anil Mhatre	Fybsc (CZMi		CHILL.
4.	3	FY.BSC (CZmic)		(Rati)
5.		FYBSC (CZM)		(hs)
6	Rachana · R. Yangawane	FYBSc(czm)	) 49	Clarenare
7-	Zenia. C. Disouza	FYBSC (COM)	01	Vinio
8.	vandana b. pandey	FYB.sc(txmic	) 27	**pander
9,	Vanshita B. Evande	FYBSC(Czm)	202	mede_
10.	Yaday Anchal Rajesh	FYBSC (zm)	·98	Anchal
11.	Gayatri Anil Mali	FYBSc(CZM)	No.	(FA'Mal'
12	ISHRAT KHAN	SYBS (CM)	129	1 Tuit
13.	Tanvi Patil	SYBSC (CM)	140	Btil.
14	AKShata. Raikar.	SYBSC(RM)	123	June .
15.	Soniya Chauhan	57 BGC (CM)	136	Thathan
16	Ayesha Shaikh	SYBSC(CM)	134	dyesting
17	Tejas Shivaji Deshmukh	FYBSC (CZMic)	215	T.S.Deshmykh
18	Pranay B. Mishra	YBSC [czm]	209	Rey.
	V	,		
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### B. K. Birla College Of Arts, Science And Commerce, Kalyan (Conducted by Kalyan Citizens' Education Society)

Department of Microbiology

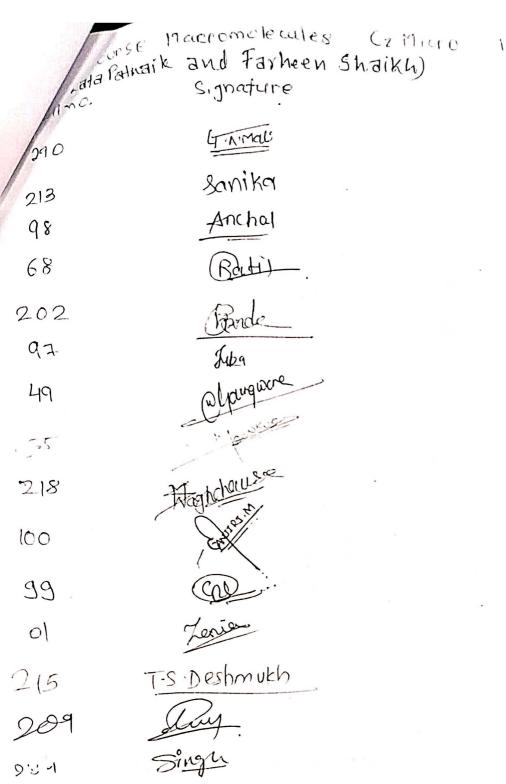
### Certificate Course in Macromolecules

#### Attendance Sheet

Faculty Name Do M. K. Dhaliwal	
Popic Macronoleules	

Date:- 18 -1-2020

				10 1 20 10
Sr. No.	Name	Class	Roll No.	Signature
	Pranay B Mishra	FUBSC(C2M	209	Skys
2	Tejas Shivaji Deshmykh	FYBSd(C2Mi	215	T.S. Deshmyky
3.	Yadar Anchal Rajesh	FYBSC (czm)	9.8	frehal.
4.	Zenia: C. Disouza	FYBSCOM	-	Terior
5	Rachana i Gangawane	FY BS-Com	49	Diaropace
6.	vandana b. peindey	FYBSC-CZ	M 27	Spandes
7.	Vanshita B. Frande	FYBSC-(Z)		Rack
8	Glayatri N. Sathe	FYBSCCZM	99	GR :"
9	Akshata. A. Raikar.	SYBSL(cm)	123	Curi I
10	Ayesha. Shaikh.	SYBOC(im)	134	- Allett
11	Johnat Khan	SYBSC (CM)	129 -	Tem
12	Tanvi. Patil	SYBSC (CM	1.40	Patri.
13	Soniya. Chavhar.	SYBSC (CM	)136	- Loutour
14	Priyanka, k. patil	FYBS CZN	68	RHIL
15	Manjisi Anil Mhatre	fyBSCC2M	100	CALLED .
16	Sanika. Kesarkour	И	213	Sarita
17	Gayatri . A. Mali	N	290	Q.kimal
				N .
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Mollisch Test

Benedict's Test

Bi use of Test

Jorse Macromolecules Cz Micro lata Pathaik and Farheen Shaikh)
Signature 4. A. Mali Sanika Anchal T-S Deshmukh

14/9/17 Practicals.
Ciqualitative Test
Thollisch Test
Benedict's Test
Bi uset Test



### B. K. Birla College Of Arts, Science And Commerce, Kalyan (Conducted by Kalyan Citizens' Education Society)

#### Department of Microbiology

#### Certificate Course in Macromolecules

#### **Attendance Sheet**

Faculty Name Ms. Lata Palnaik; Ms. Fasheen Shaikh
Topic Estimation of Reducing Sugars (DNSA Method) P.

Date: - 21-09-2019

Sr. No.	Name	Class	Roll No.	Signature
1	Pranay - B. Mishra	FyBSC	209	Duy.
2.	Tejas. S. Deshmykh	Fy BSC	215	T-S. Deshmuth
3.	Ayush Ranvir Strigh	F.4.B.SC.	234	singl.
4	Manjiri. Anil. Mhatre	f.YB.sc	100	<b>C.</b>
5	Sanika · S · Kesasikasi	F.Y.B.Sc.	213	Sanika
6.	vandana b. pandey.	F.Y.B.SC	27	Hpandey
7	Mayor deward Sonkusare	FYBSC.	डर	The state of the s
8	Grayatri Nilin Sathe	FYBSC	99	<u> </u>
9	Manasi S. Waghchause	Ty RSC	218	Tagharaur
10	Yaday Anchal Rajesh	FY BSC	98	Anchal.
11	Vanshita B. Evande	FyBsc	202	Verde
12	Priyanka k. Patil	FYBSC	68	Butit.
13	Tuba Naseen Khan	FYBSC.	97	Jups.
14.	Zenia C. D'souza	F.Y.B.Sc	01	Zeria
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## B. K. Birla College Of Arts, Science And Commerce, Kalyan (Conducted by Kalyan Citizens' Education Society)

Department of Microbiology

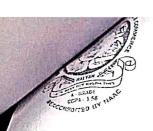
### Certificate Course in Macromolecules

#### Attendance Sheet

Faculty Name. Ms. Lata.	Patnaik	& Mrs	falkey	Shaikh
Topic. Proutiels	•••••	• • • • • • • • • • • • • • • • • • • •		

Date: - 24 -01 -2020

						•
	Sr. No.		 3	Class	Roll No.	Signature
1	55	Mayer D. Sonkusare		fyBsc	55	MSONKY
	Ω.		٠.	FyBsc	100	Carl Till
	3.	Banika Satish Kesarkour.	^	fy bsc	213	Sanika
	4.	l'andana Pandey.		fy bsc	27	Hondey
	5.	Peiyonka Patil		FYBSC	68	Batil.
	6	Glagati N. Sathe		FYBSC	. 99	Organi
	7	Manasi Waghchause		AYBÉC	2/8	A Caranda
	8	Vanshita Evande		FYBSC	202	Marde
	9-	Ayeshashoush		SYBS	134	dyeste
	10	Reshma Singh		SYBSL	128	To h
L	11	Akshata Raikat.		SYBSC	123	Junio
	12	Tanvi. Patil	*-	SyBsc.	140	Patil .
	3	Tejas. S. Deshmyth		FYBSC	.215	T-S Deghmylch
1	4	Banay Mishoa	9	MBSC	204	Duy
1	5	Gagatri Anil Mali		t 6Bec	290.	Garal'
ı	6	Rachana R. Gangawane	1	FYBSC	49	Margare
1	7	Zenia-C-Disouza	F	Y.B.Sc.	01	denies
(	8	Tuba Naseem Khan	8	Y BSI	97	Tuba
1	9	Soniya Chauhan	1	y BSC	136	fraken
21	0	Ishrat Khan		y BSC	129	1 shorat



### Department of Microbiology

### Certificate Course in Macromolecules

#### Attendance Sheet

Faculty Name. Ms. Lata Pala	aik L. Mrs. Fallney Shaill
Topic Prontill	
-	Date: 26-1-2020

		·	T	
Sr.	Name	Class	Roll No.	Signature
01		FyBSc	49	Dare Dave
-		FY.BSc	Lol	Jorison
02		F.Y.BSC	97	Jup
03		FIBSC	290	G. A in al
04		FY BSC	50)	Card .
05	Manjiri. Anil. Mhatre		213	Sanika.
06.		fyBSC.		Apanday.
07.	vandana Pandey	FYBSC	27	Pund
08.	Banay Mishra	PyBse	200	
09.	Tejas Shivaji Deshmykh Privanka Kisan Pati)	PYBSC	215	T.S. Deshmykh
10	Privanka Kisan Pati)	FYBSC	68	Batil
11	Manasi S Wlaghchalle	FYBSC	218	Theharde
	Vonshita Exande	FYBSC	202	Perce_
12		FyBoc	ST -	Mankus
13	Mayor D Sonkusare		99	Circo
14	Gdyatri N. Sathe	FYBSC		
15	Reshma P. Singh	SYBSC	128	1990
16	Ayesha Shaikh	SY BSC	134	Thomas
17	Panvi patil	SYBSC	140	Patil
18.	Soniya Chawhan	SYBSC	136	Leelen
19	ISHRAT KHAN	SYBSC.	129	John
20	Akshata. Raikas	SYBSE	123	Que Te
				<del> </del>

### patnaik b-falhem Shaikh Name

06/02/20

	11-1-1		•
	Tejas Shivaji Deshmukh	FYBSC	T.S. Deshmykh
100	Manjiri. Avil. Mhatre	-TyBSc	Called .
55 .	Mayor. D. Sonkusore.	FYBSc.	Theorems
213	Sanika · S · Kesarkan	FYBSc.	Sanika
99	Glayatri Nitin Sathe	FYBSC	Cros
68	Peiyanka kisan Patil	FYBSC	Batil-
218	Monosi Sachin Woghchouze	FYBSC	Pour
98	Yadav Anchal Rojesh	FyBsc.	Anchal
202	Vanshita B. Errande.	FYBSC	Penole
1-6	Soniya J. Chaulan	Sybsc	chaulus.
140	Tanvi: H. Patil	SYBSC	aril.
128	-Ayesha Shaikn	SYBSC	shipshi.
	Reshma Singh	SYBSC	Quit _
129	ISHRAT KHAN	5115°C	Jehr-1
123	Akshala. Raikar.	SyBsc.	June
79	Vais mavi. Katamaware	SYBSC	(Batamar
81	Bhumika. B. Barang	SYBSC	( ana
49	Rachana · R. Gangarvane	FYBSC	Of ardware
97	Tuba Naseem Khan	FYBSc	4
01	Zenia D'Souza		July Comments
209	Pacenay Mishing	FYBSC	1,033
290	Gay ahi Anil Mali	791536	Sus.
		PYBSC	G.And.

#### Report of Certificate Course-Macromolecules in Foods

Department of Microbiology conducted a certificate course on Macromolecules in Foods during 2019-20 to prepare the students for competitive exams. The fee for the course was Rs. 500/-

A total of 25 students had registered for this course. The course was co-ordinated by Dr. M.K. Dhaliwal. The following are the details of the course.

No. of sessions allotted (each session of 3 hrs)	10
No. of sessions completed	10
Total Fee credited	Rs. 12500/-

List of the students enrolled for this course is attached herewith.

Head.

Department of Microbiology

To,
The Principal,
B.K. Birla College (Autonomous),
Kalyan.

#### Subject: <u>Deposition of the fee collected in Certificate course Macromolecules in Foods</u>

Respected Sir,

Dept. of Microbiology conducted certificate course on Macromolecules in Foods during the academic year 2019-20 from September 2019 to March 2020. The fee for the course was Rs. 500/-. Twenty-five students had registered for the course and an amount of Rs. 12500/- was collected as the total fee.

Kindly deposit the said amount.

Head,

**Department of Microbiology** 

Date: 14/03/20

To,
The Principal,
B.K. Birla College (Autonomous),
Kalyan.

### Subject: Remuneration bill of Certificate Course Macromolecules in Foods

Respected Sir,

Department of Microbiology conducted certificate course on Macromolecules in Foods during the academic year 2019-20 from September 2019 to February 2020.

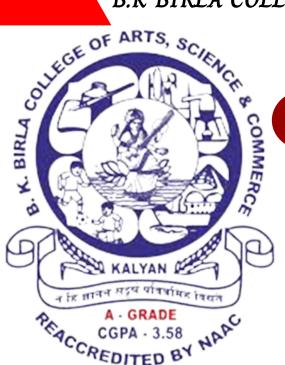
#### Details of the course:

Sr.	Name of the Faculty	No. of hours	Remuneration
No.		,	
1.	Dr. M.K. Dhaliwal	15	Rs. 4500/-
2.	Ms. Lata Patnaik	7.5	Rs.1125/-
3.	Ms. Farheen Shaikh	7.5	Rs.1125/-
4.	Non-teaching staff remuneration	-	Rs. 1000/-
5.	Examination		Rs. 1000/-
	Total	30	Rs. 8750/-

Encl: Attendance sheets of the course

Head,

Department of Microbiology



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

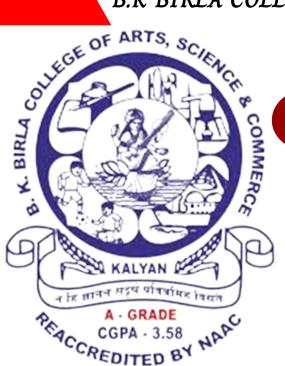
### Vanshita Balasaheb Erande

FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MD

Course Coordinator



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

Yadav Anchal Rajesh

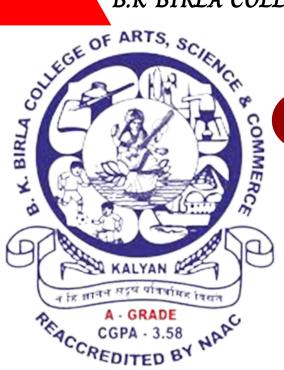
FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MD

Course Coordinator

Dr. Avinash Patil



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

### Sanyukta Kardekar

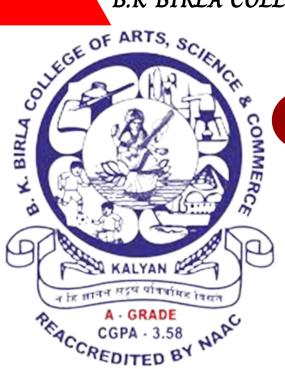
FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MD

Course Coordinator

Dr. Avinash Patil



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

### Manasi Waghchaure

FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN

MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY

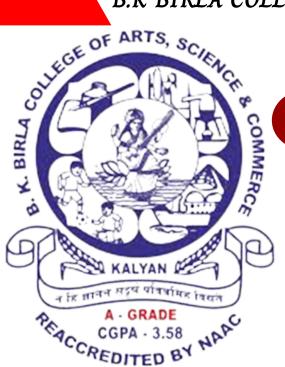
DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MO

Course Coordinator

Dr. Avinash Patil



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

### Manjiri Anil Mhatre

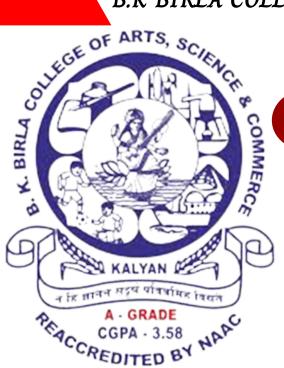
FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MD

Course Coordinator

Dr. Avinash Patil



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

### Mayur Dewanand Sonkusare

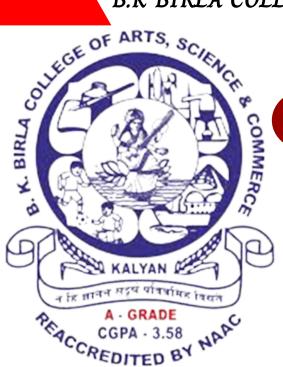
FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MO

Course Coordinator

Dr. Avinash Patil



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

### Harshada Anurath Gharde

FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MD

Course Coordinator

Dr. Avinash Patil



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

Gayatri Anil Mali

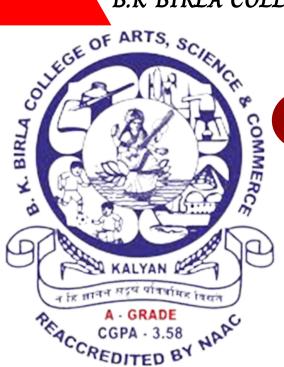
FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN
MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY
DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MD

Course Coordinator

Dr. Avinash Patil



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

### Pranay Bidyanath Mishra

FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN

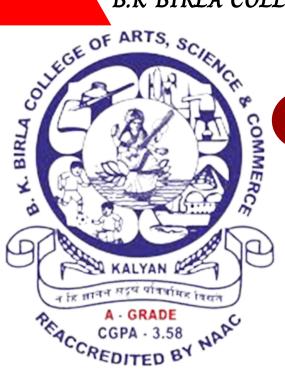
MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY

DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MD

Course Coordinator



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

Zenia D'souza

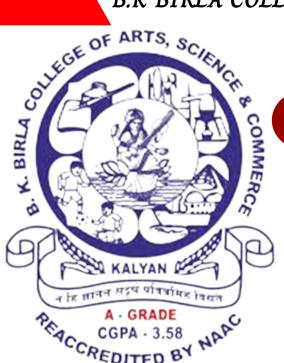
FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MO

Course Coordinator

Dr. Avinash Patil



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

### Rachana Ramesh Gangawane

FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN

MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY

DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MO

Course Coordinator

Dr. Avinash Patil



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

Tuba Khan

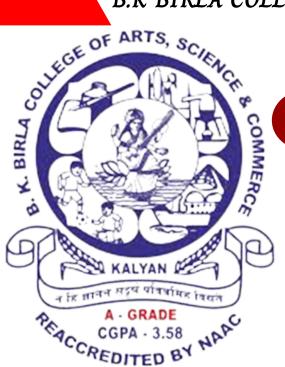
FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MD

Course Coordinator

Dr. Avinash Patil



# CERTIFICATE

of Completion

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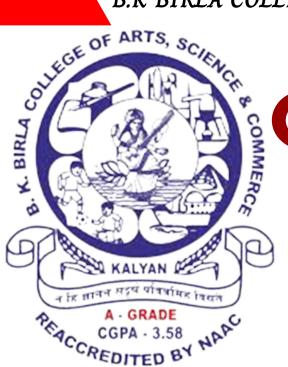
### Khan Ishrat Asmatullah

FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MD

Course Coordinator



# CERTIFICATE

of Completion

WE ARE PROUDLY PRESENT THIS TO

Tanvi Patil

FOR SUCCESSFULLY COMPLETING CERTIFCATE COURSE IN MACROMOLECULES IN FOOD CONDUCTED BY DEPARTMENT OF MICROBIOLOGY DURING THE ACADEMIC YEAR 2019-20

DR. M. K. Dhaliwal

MD

Course Coordinator

Dr. Avinash Patil



# CERTIFICATE

of Completion

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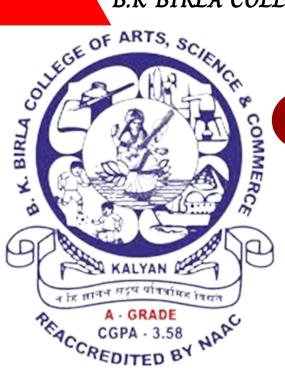
Ayesha Shaikh

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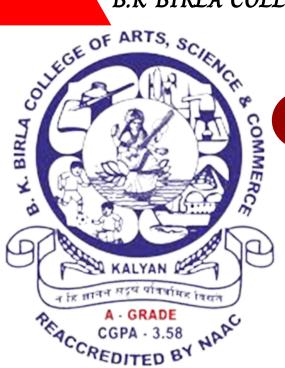
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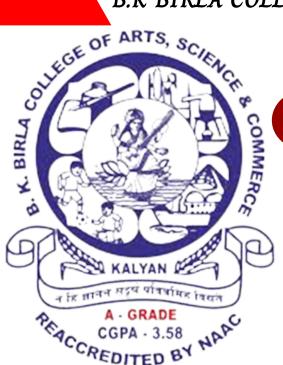
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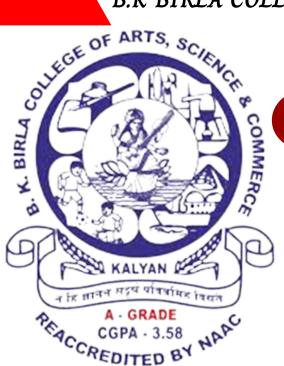
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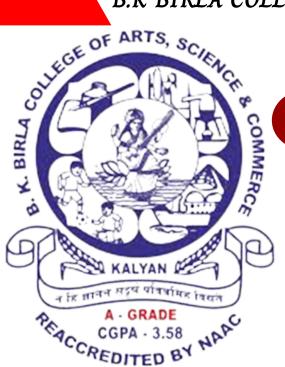
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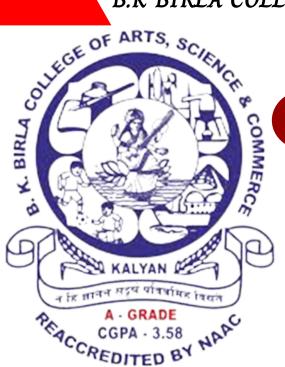
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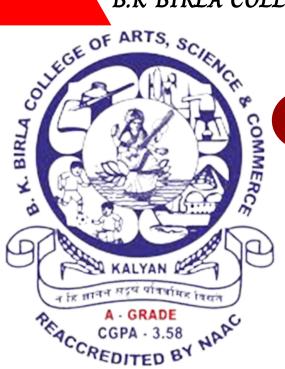
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