

Shri Shivaji Education Society's Board for Higher Education Vidyanagar Karad.





YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

course code-CCF-03

DEPARTMENT OF BIOTECHNOLOGY

SHORT TERM COURSE

BIOLOGICAL DATABASES IN COMPUTERS

2023-24

Index

Total Students: 20

Duration: 03 Months

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Course Co-ordinator
Department of Biotechnology

Chavan College of School Bioter Welcey

Yeshwantrao Chavan College of Science, Karad

Date: 07/11/2023

All the Students of the B. Sc. II are hereby informed that the Department of Biotechnology is going to run a short-term course entitled as "Biological Databases In Computers" Interested Candidates enrol their names to Mrs. V. R. Patil(course Co-ordinator) on or before 25th November 2023.



YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD

Department of Chemistry

Short Term Course

"Biological Databases in Computers"

Year 2023 - 2024 Name of the Enrolled Students

Date: 01/11/2023

Sr. No.	Roll No.	Name of the Students	Signature
1	1198	Bhosale Vedant Ganesh	B.V.G.
2	1199	Desai Vaishnavi Jagannath	Vaishnau
3	1200	Katwate Gayatri Pramod	trowne
4	1201	Salunkhe Atharv Arvind	Asslankhe
5	1202	Sanya K Prasannan	Donne
6	1203	Awale Tejaswini Nitin	Sawale
7	1204	Jadhav Isha Ravindra	Tachar
8	1205	Jadhav Pavan Vijay	P. Jaddon
9	1206	Kumbhar Sejal Anil	tambharr
10	1207	Parave Rasika Sambhaji	Reparave
11	1208	Patil Amruta Vijaykumar	Ratil
12	1209	Pawar Sakshi Kumar	Axpende
13	1210	Pawar Shreya Bapurao	avors
14	1211	Kadam Prathamesh Ashok	gradam.
15	1212	Lokhande Shruti Samadhan	Slokela.
16	1213	Mutwalli Nabil Asif	Dimer.
17	1214	Patel Saniya Sikandar	Janier.
18	1215	Sankpal Pranali Dipak	Bankeal
19	1198	Bhosale Vedant Ganesh	B. V. C+
20	1199	Desai Vaishnavi Jagannath	U.Z.D



Certificate course In "Biological Databases in Computers" Year 2023-2024

Date: 01 /11/2023

1. Class : B. Sc. II

2. Duration of the Course : 3 Months

3. Capacity : 20

4. No. of Students Enrolled : 20

5. Theory Examination : Last week of February.

6. Practical Examination : First week of March

Course Co-ordinator

Short Term Course

Course Co-ordinator Biotech. Department



YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD

Department of Biotechnology

Short Term Course

"Certificate Course in Biological Databases in Computers"

Year 2023-2024

Theory/Practical Time Table

Dec. 2023 to Feb.2024

- Lect. Time	Wed	Thru		
8.50-9.40	G32	G32		
	VRP	SSN		
	G32	G32		
9.40-10.30	JSP	VRP		
9.40-10.30	JSP			

Pract. Time	SAT
8.50-9.40	Biotechnology Lab
9.40-10.30	VRP/SSN/JSP

N.B.

1 Bracketed Numbers denotes Lecture Hall Numbers.

2 All concerned should note and follow.

3. G: Lecture hall In Golden Jubilee Building

Course Co-ordinator

Short Term Course

Course Co-ordinator Biotech. Department



YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD Department of

Short Term Course

"Certificate Course in Biological Databases in Computers"

Year 2023-2024

Date: 28 /11/2023

All the students those who are enrolled their names for this course are hereby informed that their theory lecture is going to start from 1st Dec. 2023. All concerned should note and follow



Short Term Course

"Certificate Course in Biological Databases in Computers"

Year 2023-2024

Final Exam Question Paper

Marks: 30 Q.1 Choose the correct alternative given below (20)1. Which of the following scientists created the first Bioinformatics database? c) Richard Durbin d) Michael.J.Dunn a) Dayhoff b) Pearson 2. Which of the following is protein data base a) Gene bank b) PIR c) DDBI d) EMBL 3. Which of the following is an example of Homology and similarity tool? a) BLAST b) RasMol c) EMBOSS d) PROSPECT 4. Which of the following tools is used for the identification of motifs? a) BLAST b) COPIA c) PROSPECT d) Pattern hunter 5. The identification of drugs through the genomic study is called_____. b) Pharmacogenomics c) Pharmacogenetics d) Cheminformatic a) Genomics 6. Which of the following are not the application of bioinformatics? (a) Drug designing (b) Data storage and management (c) Understand the relationships between organisms (d) None of the above 7. The term Bioinformatics was coined by ____ (a) J.D Watson (b) Pauline Hogeweg (c) Margaret Dayhoff (d) Frederic Sanger



8. What is Internet?

- a) a single network b)a vast collection of different network
- c) interconnection of local area of network d)none of the above

9. The basic operations performed by a computer are

A) Arithmetic operation B) Logical operation C) Storage and relative D) All the above

10. Software in computer

A) Enhances the capabilities of the hardware B) Increase the speed of central processing unit C) Both of above D) None of above

Q.2) Answer the following in short

(10)

- 1. Write classification of computers
- 2. Write introduction to databases



Yashwantrao Chavan College of Science, Karad Department of Biotechnology Short Term Course 2023-24

Biological Databases in computers Practical Examination

Q.1. Browse primary and secondary Databases

(20 marks)

Q. 2. Explore different types of databases

(20 marks)



Yashwantrao Chavan College of Science, Karad

Department of Biotechnology

Short term Course - Biological Databases In Computers (2023-24)

Mark list

Roll. No.	Name of Student	Mid-course exam (Out of 30)	Final Exam (Out of 30)	Practical Exam (Out of 40)	Total (Out of 100)
1198	Bhosale Vedant Ganesh	21	24	40	85
1199	Desai Vaishnavi Jagannath	22	25	40	87
1200	Katwate Gayatri Pramod	21	20	40	81
1201	Salunkhe Atharv Arvind	21	24	40	85
1202	Sanya K Prasannan	25	25	40	90
1203	Awale Tejaswini Nitin	19	27	40	86
1204	Jadhav Isha Ravindra	21	28	40	89
1205	Jadhav Pavan Vijay	21	26	40	87
1206	Kumbhar Sejal Anil	17	24	40	81
1207	Parave Rasika Sambhaji	21	25	40	86
1208	Patil Amruta Vijaykumar	21	26	40	87
1209	Pawar Sakshi Kumar	25	20	40	85
1210	Pawar Shreya Bapurao	19	25	40	84
1211	Kadam Prathamesh Ashok	21	27	40	88
1212	Lokhande Shruti Samadhan	21	19	40	80
1213	Mutwalli Nabil Asif	22	20	40	82
1214	Patel Saniya Sikandar	21	24	40	85
1215	Sankpal Pranali Dipak	21	20	40	81
1198	Bhosale Vedant Ganesh	25	27	40	92
1199	Desai Vaishnavi Jagannath	19	28	40	87



Yashwantrao Chavan College of Science, Karad

Department of Biotechnology

Short term Course - Biological Databases In Computers (2023-24)

CO Attainment

Average Attainment	Target Attainment level	Remark
3	Level 5	Target achieved

Course code	Course Title	% of students above 60 % of Final exam marks	Level of attainment Final exam	80% of attainment Level in Final exam (I)	attainment above 80 % of mid-course exam		20% of attainment Level in mid-course exam (II)	Attainment of course(I+II)
Short term	Biological Databases in Computers	93.00	3	2.4	75.00	2	0.4	2.8

By using below attainment levels 1,2,3 for the Percent of students in B						
	For internal exam					
Level 1	Less than 60% of students scoring more than average marks					
Level 2	60% - 80% of students scoring more than average marks					
Level 3	more than equal to 80% of students scoring more than average marks					



Short Term Course

"Certificate Course in Biological Databases in Computers"

Year 2023 - 2024

Result

No. of Students Enrolled	No. of Students Appeared	Pass	Fail	Result	
20	20	20	00	100	



Short Term Course

"Certificate Course in Biological Databases in Computers"

Year 2023-2024

Report

For this course Total 20 students are enrolled and 20 students are appeared for the exam. This course was conducted in Dec. 2023 to Feb. 2024. Department of Biotechnology Satisfactorily conducted this course.



Career Oriented Courses/ Certificate Courses/ Add on Courses / Value Added Courses/ Skill Based Courses/ Short Term Courses Year 2023- 24

Sr. No.	Name of Add on / Certificate Programs Offered	Duration of the Course	Number of the Students Enrolled
1.	Biological Databases in computers	3 Months	20



Department of Biotechnology

Short Term Course

"Certificate Course in Biological Databases In Computers"

Year 202**3**-202**4**

Attendance Sheet December

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Roll	Name of the Students	Dates and Signature of the Students									
No.	No.										
		2-12	6-12	7-12	9-12	13-12	14-12	16-12	20-12	21-12	23-12
3001	Adsule Prathamesh Bhaskar	PhA	PPA	RbA	RbA	EPA	Pla	BPA	Lbp	PhA	Plot
3002	Bhosale Harshvardhan Ajay	Abhan	Habbot	HAbho	HOBBOS	HAbbas	HABLOS	HAbh_	HABLOSON	HABLO	HAbhood)
3003	Chavan Sanjana Anil	D.	D:	D.	D.	3.	\$2.	D.	M.	9 .	D.
3004	Chavan Sanskar Pratap	Sc.	PC	Sec	&c	pe	Se	&c	8.	8℃	PC
3005	Jadhav Madhura Sudhakar	T.2.M	Ms.J	MISI	M.S.J	T.S.M	I.S.M	M.S.I	M.S.I	TISM	M.S.Z.
3006	Jadhav Rutuja Vikram	RNJ	RNJ	Control Control Control		641		RVJ	RUJ	RVJ	RVJ
3007		shrite		shrita		spritis		smith	-	shrity	Shrity
3008	Kale Saniya Dayanand	S.D. Kale	S.D. Kale	S.D. Kale	S.D. kale	5.0.xale	s.O. rale	5:Dixare	S.O. Xale	S.D. Lair	6. D. Kale
3009	Kolhapure Sayali Vidyasagar	\$	\$	\$	\$	\$	\$	\$	\$	(5	6
3010	Kumbhar Nikhil Chandrakant	Necumbhar	Vicknupax	Mckumbha		Nickumbhora		Nekumbh	r McKrunghr	Kekum	Nckumbhan
3011	Latey Riya Ranjit	Water)	Kaley	Kedel	Kaleed	Westers.	Kary.	Wester	Keeted	Tous	Koders
3012	Patil Manasi Arvind	Mostil	Modil	Martin	Mapatil	Mpattil		Mpatel	Moute	Madid	Mpati
3013	Patil Vedashri Sanjay	V-P	VP	NP	4.4	V.P	V-P	V.P	V-P	V-P	ViP

3014	Salunkhe Rutuja Krushnat	(A)	B	B	P	B	B	B	P	B	₽.
3015	Shinde Pranali Shankarrao	PSS	PSS	PSS	PSS	PSS	P33	PSS	PSS.	PSS	PSS
3016	Tate Utkarsha Vasant	THE	THE	THE	The	TW	TW	TH	JUL,	TUY	JW.
3017	Thorat Shivam Dattatray	8.	8.	8.	8.	8.	S	S.	S.	2	Si
3018	Varpe Rutuja Shivaji	RSV.	RSV-	RSV.	RSU.	RSV.	100	RSU.	RSV.	RS.V	RSV.
3019	Yadav Vaishnavi Prakash	Northran	Olaighnour	Obithon	Maistrai	Ooi show	Vaishrai	VI. N-	Vighnow		Vaithrai
3020				Rugyeel	Rugued	Rugued	Rugued	Rugred	Rughed	Rugued	Rugues



Department of Biotechnology

Short Term Course

"Certificate Course in Biological Databases In Computers"

Year 2023-202

Attendance Sheet

Roll	Name of the Students			D	ates and	d Signatu	ire of the	Stude	nts		
No.											
		27-12	28-12	30-12	3-1	4-1	6-1	10-1	11-1	13-1	17-1
3001	Adsule Prathamesh Bhaskar	Ppp	lbA	RIDA	PhA	PAP	eld	Clos	Class	PLOP	PER
3002	Bhosale Harshvardhan Ajay	HAMA	HABLOR	HABHA	HABHISM	HARter	Harost	HABhose	LABHOS	HABLO	TO CHOROLF
3003	Chavan Sanjana Anil	9	D.	D!	A.	0	9.	Br.	D.	9	8
3004	Chavan Sanskar Pratap	Fe	Sec	55	SC	Sc	SC	\$c	\$c	Sc	\$C
3005	Jadhav Madhura Sudhakar	M.S.T.	T.S.M	T.S.M	M.S.T.	M.S.J.	T.S.M	T.2.PT	M.S.T	M-S. J	T.2.M
3006	Jadhav Rutuja Vikram	RVZ			RUJ	BNI			RUJ	BNJ.	RNJ
3007	Kajave Shritej Rajaram	Smita					shritel	Shrind	shrita	Shritel	
3008	Kale Saniya Dayanand	S.D.Kale	S.D.Kale	5 No kale	S.D.Kale	S.D.Kale	S.D. Kale	50. Kale	S.D.Kale	5.0.kak	5. Pikale
3009	Kolhapure Sayali Vidyasagar	\$	8	\$	\$	\$	\$	\$	\$	æ	\$
3010	Kumbhar Nikhil Chandrakant	Nckrimpor	Nckumbar	Mckumbha		Nekumbhar	Nckumbhar	Nckumbho	n Nckumbha	Netumbha	Nekumbharr
3011	Latey Riya Ranjit	Wales	Newy	Roto	Newberg	Westerd	Hodey	Noted	March	Koley	Motey
3012	Patil Manasi Arvind	Mpatij	Maritil	MApode	Mpotil	Metu	Martin	Marti	Mpati	Martie	Mati
3013	Patil Vedashri Sanjay	V-P	V-P	V-P	N-6	V.P	V-P	N.P	NEP	1.19	V-P

3014	Salunkhe Rutuja Krushnat	₽,	\mathcal{P}	\$	B	Q	D .	R	B	₽.	D .
3015	Shinde Pranali Shankarrao	P35.	PSS	PSS	PSS _	baz -	PSS	PSS	PSS	PSS .	DSS
3016	Tate Utkarsha Vasant	THE	TIM	JW.	THE	J.	TW	IN	TUP	Z#	D.
3017	Thorat Shivam Dattatray	8	S.	5	8-	S.	S.	S	2	S.	3.
3018	Varpe Rutuja Shivaji	RSV.	RSU.	RSV.	RSV-	RSV.	P8V.	RSV.	RSV.	P3V.	RSV.
3019	Yadav Vaishnavi Prakash	Milhrout	Voilbras			0-2			~	P-	Volikhoar
3020	Mane Rugved		Rughled	Righter	RIGNEST	Rughad	Rughed	Righted	Rughled	Rughed	Rugical



Department of Biotechnology

Short Term Course

"Certificate Course in Biological Databases In Computers"

Year 202**3**-202**4**

Attendance Sheet

Attendance sheet											
Roll	Name of the Students		Dates and Signature of the Students								
No.											
		18-1	24-1	25-1	27-1	1-2	3-2	7-2	8-2	10-2	14-2
3001	Adsule Prathamesh Bhaskar	CAB	EbA	RIGH	CBA	lop	POA	ROA	RAPA	LBA	-BBA
3002	Bhosale Harshvardhan Ajay	HAbber	HOW	HAMP	HADHOS	HABLES	HABLE	HARM	HODIO	HADLOS	
3003	Chavan Sanjana Anil	D.	D :	D.	D :	Di	Ø=	2:	D .	D.	9 .
3004	Chavan Sanskar Pratap	SK	SX	Sis	Se	\$c	Sp	Sec	Se	Sc.	Sec
3005	Jadhav Madhura Sudhakar	MSI	MSI	MSI	MSI	MS-7	T.2.M	T.2-M	I.2.M	T.S.M.	M.S.J.
3006	Jadhav Rutuja Vikram		. 0	RNZ	K12	K12	RVJ	STATE OF THE PARTY	RVJ	RVJ	RVJ
3007	Kajave Shritej Rajaram		Shrital	shrital	shritel			shritel	Shriti	Shrift	shritik
3008	Kale Saniya Dayanand	S.D.Kale	s.D. Kale	5.0. Kale	s.O.kale	S.D. Kale	S.D.Kale	S.D.Kale	5.0.1×ale	S.D. Kale	s.O. kale
3009	Kolhapure Sayali Vidyasagar	\$	Œ	\$	\$	\$	\$	\$	\$	\$	\$
3010	Kumbhar Nikhil Chandrakant	Neburnbar	NCKnupax	NCKumbar	Nekumbar	Mckauppa	NCKlimbhan	Nckumber	Noruhhar	To the Court of th	-Nekumhhar
3011	Latey Riya Ranjit	Westery.	Water	Wales	Kaly	Waster	Madeed	Waley !	Newy	Wester	Worky
3012	Patil Manasi Arvind	Mpatty	Mpaty	Mostil	Moutil	Mpatil	Meadil	Mpatil	Mpatil	Martin	Moatil
3013	Patil Vedashri Sanjay	V.P	N-6	N-P	V.P	4.4	4.4	N-P	N-P	V-P	V.P

3014	Salunkhe Rutuja Krushnat	₩.	₩,	Ø,	A .	R ,	B	B.	P	\$	A.
3015	Shinde Pranali Shankarrao	PSS	PSS	PSS	PSS.	PSS	PSS	PSS	PSS	PSS	PSS
3016	Tate Utkarsha Vasant	THE	THE	THE	THE	TV	DV-	TW	THE	THE	THE
3017	Thorat Shivam Dattatray	3	3	9.	5.	S	ج.	S.	S	5-	Si
3018	Varpe Rutuja Shivaji	RSU.	RSV.	PSV.	R9V-	RSV.	RSV.	RSV.	,	RSV.	RSV.
3019	Yadav Vaishnavi Prakash	Valhori	Joshran		~ /			V	0	07	10
3020	Mane Rugved	Proved	Righted	Righted	Rygled	Rughled	Ryglad	Righted	Rughled	Rughed	Royled



Short Term Course

"Certificate Course in Biological Databases in Computers"

Year 2023–2024

Sr.No.	Criteria	Excellent	Good	Average	Poor
1.	Curriculum Content	12	08	-	-
2.	Gratification about Lecture	15	05	_	_
3.	Gratification about Practical	17	03	_	_
4.	Hands on Training	20	_	-	_
5.	Knowledge get from the course	11	09	_	_
6.	The course if beneficial for Students and Parents	20	-	-	-



Estd.:

II Be one with the downtrodden and the underprivileged II

Shri Shivaji Education Society, Vidyanagar, Karad Board for Higher Education's, Vidyanagar Karad's

Yashwantrao Chavan College of Science, Karad

Vidyanagar, Karad - 415 124.

• An ISO 9001 : 2015 Certified College Reaccredited B⁺⁺ Level by NAAC, Bangalore.





Short Term Course Cottificate of Completion

Tadhay Isha Ravindoa
This is to certify that Mr./Miss Gurse (3 Months) in Biological
of Class conducted by the department of
Databases in Computers 2003-2024
Biotechnology during the academic year 2023 - 2024
Head of the Department Head of the Department
Course Co-ordnator Head of the Dopulation

II Be one with the downtrodden and the underprivileged II

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Short Term Course Certificate of Completion

Pawas Satelie Keronars
This is to certify that Mr./Miss has Completed Short Term Course (3 Months) in Biological
conducted by the department of
Databases in Compaters
Biotechnology during the academic year 2023 - 2024
3

Head of the Department

Estd.:

II Be one with the downtrodden and the underprivileged II

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Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Powor Shoeyd Boot of Class B.Sc II has Completed Short Term Course (3 Months) in conditions and conditions are conditionally as a second conditions and conditions are conditionally as a second conditions are conditionally as a second conditions are conditionally as a second condition and conditions are conditionally as a second condition are conditionally as a second condition and conditions are conditionally as a second condition and conditions are conditionally as a second condition and conditional conditions are conditionally as a second condition are conditionally as a second	Biological ucted by the department of
Databases 10 Coroputers condition Biotechnology during the academic year 2025 - 2024	

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Short Term Course Cottlicate of Completion

Kadows Prothomesh Ashok
This is to certify that Mr./Miss The Lowert Town Course (3 Months) in Biological
of Class B-Sc T has Completed Short Term Course (conducted by the department of
of Class conducted by the department of
Databases in Computers conducted by the department of
Biotechnology during the academic year 2003 - 2024
Biotechnology auring the neutrons

Course Co-ordnator

Head of the Department

II Be one with the downtrodden and the underprivileged II

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Yashwantrao Chavan College of Science, Karad

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Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Toutwall Nobil 1815	
This is to certify that Mr./Miss has Completed Short Term Course (3 Months) in Riccing the Course (3 Months) Riccing the C	ological
of Class conducted by t	the department of
Databases in competers	
Biotechnology during the academic year 2023 - 2029	40

Course Co-ordnator

tQAC Co-ordinator

Course Co-ordnator

 $\ensuremath{\mathfrak{l}}$ Be one with the downtrodden and the underprivileged $\ensuremath{\mathfrak{l}}$

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of Class B.Sc T. has Completed Short Term Course (3 Months) in Biol	logical
	ie department of
Biotechnology during the academic year 2023 - 2024	
	and the same of th

Head of the Department

Course Co-ordnator

 $\ensuremath{\text{II}}$ Be one with the downtrodden and the underprivileged $\ensuremath{\text{II}}$

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Vidvanagar, Karad - 415 124.

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Short Term Course Certificate of Completion

This is to certify that Mr./	MissJadhay	Pavan Vijay	
of Class B.Sc II	has Completed Short Tern	ı Course (3 Months) in	Biological
Databases	o Coroputeos	conducted	d by the department of
Biotechnology dur	ing the academic year 2023 -	2024	
Course Co-ordnator	Head of the Department	IQAC Co-ordinator	Principal

 $\scriptstyle\rm II$ Be one with the downtrodden and the underprivileged $\scriptstyle\rm II$

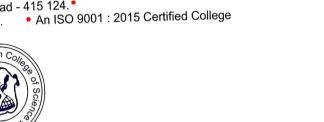
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Yashwantrao Chavan College of Science, Karad

Vidvanagar, Karad - 415 124.

Reaccredited B⁺⁺ Level by NAAC, Bangalore.







Short Term Course Cottificate of Completion

This is to certify that Mi	r./Miss. Patl	Associta	Vilayk	umare
of Class B. SC II	has Completed SI	hort Term Course (3	Months) in _	Biological
	in Coropa			d by the department of
Databases	,			
Biotechnology di	uring the academic year	2025-2029		
	λ.	λ		9/

Course Co-ordnator

Head of the Department

Estd.:

Course Co-ordnator

 $\scriptstyle \text{II}$ Be one with the downtrodden and the underprivileged $\scriptstyle \text{II}$

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 An ISO 9001 : 2015 Certified College





Short Term Course Certificate of Completion

This is to certify that I	yr./Miss. Kurobhar	Sejal	Anil	
of Class B.Sc II	has Completed Short Ter	m Course (3 Mon		
Databases	in Corputers		conducted by	y the department of
Biotechnology	during the academic year 2023.	- 2024		
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Course Co-ordnator	Head of the Department	IQAC Co-o	ramator	Principal

 $\scriptstyle II$ Be one with the downtrodden and the underprivileged $\scriptstyle II$

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Short Term Course Certificate of Completion

This is to certify that Mr./M	iss. Parave has Completed Short	Rasika Term Course (3 Mo	Scrobbaji onths) in Biological
Databases in	Computers	, *	_ conducted by the department of
Biotechnology durin	g the academic year 200	3 - 2024	
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Course Co-ordnator

Head of the Department

HOAC Co-ordinator

Principal