

R.P. GOGATE COLLEGE OF ARTS AND SCIENCE AND R. V. JOGALEKAR COLLEGE OF COMMERCE, RATNAGIRI

ANNUAL PROGRESS REPORT SUPPORTED UNDER STAR COLLEGE SCHEME

1.	Name of the College:	R. P. Gogate College of Arts and Science and R. V. Jogalekar College of Commerce, Ratnagiri
2.	Name of Coordinator: Designation Address:	Dr Vivek Vasant Bhide Assistant Professor

Designation, Address:	Assistant Professor,
Phone Nos.	Gogate Jogalekar College, Ratnagiri-41561
	9421139296

3. Assessment duration: 01/04/2022 to 31/03/2023 Duration in years: One year

4. Details of Departments Supported

Sr. No.	Name of Department	Courses	Regular Faculty members		
		(B.Sc./M.Sc./PG			
		Diploma, certificate			
		etc.) offered			
			Total = 24		
			With Ph.D.	Without	
				Ph.D.	
1.	Zoology	B.Sc. Ph. D.	02	04	
2.	Chemistry	B.Sc. M.Sc. Ph. D.	06	02	
3.	Physics	B.Sc. M.Sc. Ph. D.	03	02	
4.	Botany	B. Sc. Ph. D.	01	04	

- 5. Number & Date of Advisory committee meeting: 21/04/2023
- 6. Qualitative improvements due to DBT support. Please highlight 5 salient points (Within 500 words)
 - 1. The Star College Scheme has empowered all four departments to acquire new types of equipment and enhance infrastructure facilities significantly. This has resulted in improved performance simultaneously, allowing students to independently handle instruments. Consequently, there has been an increase in students' interest in pure sciences and a boost in their confidence levels.
 - 2. Students got to try out new and advanced experiments to encourage a love for research. Thanks to better labs and equipment, students now do experiments on their own, making learning more personal. Special guest speakers, like researchers and industry experts, were invited to share their knowledge with both students and teachers. To create scientific awareness, all departments have organized various exhibitions on the occasion of National Science Day 28th February.
 - 3. Useful Workshops and Programs: Money from the grant helped to organize various workshops and programs for students. Some interesting programs included learning about biological sciences, using technology in biology (Bioinformatics), understanding how to do research (Research Methodology), identifying plants, working with DNA (Electrophoresis and Molecular Biology),



preserving fruits, making herbal cosmetics, growing plants, and doing tiny experiments in chemistry (Microscale Techniques).

These programs aimed to give students practical skills and spark their interest in different subjects.

- 4. **Hands-on Learning and Job Opportunities:** Students had a cool chance to learn practical things and experience different subjects. The college got financial help to take students on trips to actual industries, showing them how what they learn in class is used in real jobs. More of these trips happened, and they were especially helpful for students who might not have many resources. These trips helped them learn and allowed them to connect with people in the industry, making it easier for them to find jobs later on.
- 5. The increased number of industrial and field visits under this scheme broadened students' perspectives and facilitated networking opportunities. Particularly, these visits proved instrumental in assisting economically disadvantaged students, providing them with a platform for academic development and enhancing their employability skills.
- 7. Any Novel aspect introduced or planning to be introduced during the Scheme duration.

During the DBT STAR College Scheme, we've been working to improve our education. We've added new things to make learning more interesting and in line with the latest in science education. These changes are meant to make studying more enjoyable and encourage us to keep getting better. We've already started some cool projects, and we have more exciting plans for the future.

- **Collaborative Research Projects**: Plans are underway for collaborative research projects, bringing students from different departments together for interdisciplinary research. This fosters teamwork and a holistic understanding of scientific principles.
- Enhanced Digital Learning Resources: Responding to the role of technology in education, we're improving digital resources. This includes developing online modules, and multimedia content to supplement traditional teaching methods.
- **Student-Led Initiatives**: Empowering students, we're exploring initiatives like student research clubs and science outreach programs. This allows students to showcase independent projects, fostering a sense of responsibility and initiative.
- 8. Lessons learnt / difficulties faced/suggestions if any, in implementing the programme and utilising the DBT grant. (Max 3 points within 300 words).

Lessons Learned:

- Basic equipment facilities were expanded.
- Research aptitude was fostered and developed.
- Introduction of research projects for first- and second-year students across all participating departments.
- Encouragement for students to participate and present papers in conferences/seminars.
- Fostering relationships with eminent subject experts in all departments.
- Improvement of infrastructure facilities in all participating departments.

Difficulties Faced:

• Lack of clear-cut and well-defined demarcation of the amount to be utilized under each head (recurring, contingency, etc.).



• Organizing additional sessions for students beyond their regular schedule was a significant challenge, addressed through efficient planning and time management.

S. No	Indicator	Pro	e-suj	pport						Du	rin	ng /Af	ter S	Supp	ort	;		Rem arks
		Department of Zoology																
		Tot	al =	300								= 200						
			= 10		F =	= 194	ł			M=	-44			F=	156	5		
		S C	S T	OB C	G	S C	S T	OB C	G	S C	S T	OB C	G	S C	S T	OB C	G	
		10	1	30	65	14	-	89	91	4	2	14	24	12	3	54	87	
							De	partm	ient o	f Ch	em	istrv			1			
		Tot	al =4	400								= 280						
		Μ	= 13	8	F =	=252				M	= 1	10		F =	=17	0		
1.	No. of	S C	S T	OB C	G	S C	S T	OB C	G	S C	S T	OB C	G	S C	S T	OB C	G	
	students	21	-	57	60	11	1	97	143	12	3	30	65	6	1	100	63	
	admitted						D	epart	ment	of P	hys							
		Tot	tal =2	200				•	-			= 85						
		Μ	= 62		F =	=113				Μ	= 4	0		F =	=45			
		S	S	OB	G	S	S	OB	G	S	S	OB	G	S	S	OB	G	
		C 5	Т	C 27	30	C 9	T 1	C 42	61	C 3	Т	C 12	25	C 2	T	C 15	28	
		5	-	21	50	,	-				- Pote		25	2	-	15	20	
		Department Total = 300					Total = 150											
				F-	F = 142			M = 22 $F = 128$										
		M = 78 S S OB		$\begin{array}{c c c c c c c c c c c c c c c c c c c $					G	S S OB G								
		Č 5	т Т	C 27	45	C 13	т -	C 60	69	C 4	T 2	C 09	07	C 5	т Т	C 54	68	
2.	No. of	_	olog		43	15			09	4	2	09	609	-	1	34	08	
2.	students	20	olog	y	90%				00%									
	passing out	Chemistry			85%			52%										
	(%)																	
	students	Ph	ysic	90%			62 %											
	Admitted /passing	Botany 100%					100%											
	/passing out (pass %)	20	ullj		100%													
3.	Drop-out	Zo	olog	У			2	%					1	%				
	rates		emi				3	%		2%								
		Ph	ysic	5			4	%		2%								
		Botany 2%				1%												
4.	No. of	Zo	olog	у			0)4		04								
	students			stry			1	0		10								
	opting for		ysic					3		02								
	M. Sc.		tany)3										
5.	Average	_	olog		1			%		1				5%				
	marks			stry	1)%		1				3%				İ

9. Key performance indicators:



		Physics	58%	62%	
		Botany	66%	68%	
6.	No. of	Zoology	60	64	
	hands-on	Chemistry	60	64	
	experiment s being	Physics	60	64	
	conducted	Botany	60	70	
7.	No. of new	Zoology	Nil	05	Anne
	experiment	Chemistry	Nil	01	xure-
	S	Physics	Nil	Nil	<u> </u>
	introduced	Botany	Nil	Nil	
8.	Publication	Zoology	Nil	Nil	
	(Scopus	Chemistry	Nil	Nil	
	indexed)/p	Physics	Nil	Nil	NIL
	atents if any	Botany	Nil	Nil	
9.	Training	Zoology	03	03	Anne
	received by	Chemistry	04	_	xure-
	faculty	Physics	03	-	<u> </u>
		Botany	03	04	
10.	Exhibitions /seminars/ training	Zoology	03	07	Anne
		Chemistry	01	03	<u>xure-</u> III
	courses	Physics	01	04	
	conducted	Botany	04	08	
11.	Books/jour	Zoology	Nil	06	Anne
	nals	Chemistry	Nil	Nil	xure-
	subscribed	Physics	Nil	Nil	<u> </u>
	from grants	Botany	Nil	Nil	
12.	Outreach	Zoology	02	Nil	Anne
	activities	Chemistry	02	Nil	xure-
	(Popular	Physics	02	01	<u> </u>
	lectures)	Botany	02	01	
13.	College				
	mentored		Nil	Nil	
	to apply for				
	DBT Star				
	college				
1.4	grants	7.0.01	02	02	A mm c
14.	Invited	Zoology	02	03 02	Anne xure-
	lectures	Chemistry	02		<u>VI</u>
		Physics Botony	01	Nil 02	
		Botany	02	02	



10. Self-evalu	ation		
Department	*Objective (as stated in a proposal)	% achieved	Reasons for Under-achievement / If achieved, state in quantitative metrics
	To inculcate need-based skilled courses to the learners.	75	1.5 (In the university- affiliated system, designing was not possible, but we are planning to do so in autonomous status.)
>	To cater hands-on training of instruments to learners.	100	2.0
Zoology	To undertake interdisciplinary research projects.	75	1.5 (Interdisciplinary projects for students are ongoing but not yet completed.)
	To organize workshops, seminars, and conferences for teachers and research scholars.	100	2.0
	Introduce practical modules aligning with industry demands, that help students to learn skills needed for jobs in Zoology.	75	1.5 (Practical modules are prepared but need editing)
	To impart basic experimental skills relating to chemistry to the learners.	100	2.0
	To cater hands-on training of instruments to learners.	100	2.0
ry	To inculcate interdisciplinary research culture among learners.	75%	1.5 (The interdisciplinary projects for students are currently ongoing.)
Chemistry	To organize workshops, seminars, and conferences for learners and teachers.	75%	1.5 (A few workshops were conducted and more are planned in the coming year)
	Teach students about using environmentally friendly practices in chemistry experiments. (green chemistry)	100	2.0
Physics	To inculcate need-based skilled courses to the learners.	75	1.5(In the university- affiliated system, designing was not possible, but we are



L	\downarrow \Box \downarrow		plannir to do so in autonomous status.)
	To cater hands-on training of instruments to learners.	100	10
	To undertake interdisciplinary research projects.	75	1.5
			(The projects for students are going on)
	To organize workshops, seminars, and conferences for teachers and research scholars.	100	1.5 (Workshops were conducted, and there are plans to conduct more in the future.
	Introduce courses that enhance students' proficiency in using computational tools and software relevant to physics.	75	1.5 (Modules are designed and will be included in the syllabus
	To inculcate need-based skilled courses to the learners.	75%	1.5 (In the university- affiliated system, designing was not possible, but we are planning to do so in autonomous status.)
	To cater hands-on training of instruments to learners.	100	2.0
Botany	To undertake interdisciplinary research projects.	75	1.5 (Students have been assigned interdisciplinary projects, but as of now, they are not yet completed.
	To organize workshops, seminars, and conferences for teachers and research scholars	100	2.0
	Integrate courses that focus on sustainable and eco-friendly practices in botany.	100	2.0

Not opened Under process Opened but not mapped on PFMS

Y

Account is functional

Remarks if, any:

12. Sanctioned Budget details:



Total	Total Released	Expenditure	Balance as on	Remarks if any
Sanctioned	Budget		31.12.2023	
Budget				
Grants for creation of capital assets (Non- recurring)	36.53322	34.81697	1.71625	Balance grant (NR) refunded through Bharat Kosh
Grants-in-aid General (Recurring)	12.00	12.16219	Nil.	Over and Above Expenditure (16219/-) against head-wise sanctioned grant is born by the college.
Total	48.53322	46.97916	1.71625	

V Course Coordinator (With Seal) (With Seal)



nstitution Arts & Science and R. P. Gogate College of Arts & Science and R. V. Joglekar College of Commerce. Ratnagin



ANNEXURE -I NEW EXPERIMENTS INTRODUCED IN THE FY: 2022-23

ZC	ZOOLOGY: New Experiments Conducted (5)					
1	Collection of water samples and identification of zooplankton.	B.Sc. I /Sem. I	https://rb.gy/29cb9s			
2	Culture of Artemia as a live feed.	B.Sc. I /Sem. III	https://rb.gy/vebzum			
3	Writing of an abstract from the given research paper.	B.Sc. I /Sem. IV	https://shorturl.at/JN PV9			
4	Preparation of permanent histological slides.	B.Sc. I /Sem. V	https://shorturl.at/yE Z08			
5	Preparation of Artificial fish feed.	B.Sc. I /Sem. VI	https://rb.gy/3zn251			

ZOOLO	ZOOLOGY: PROJECTS (2)						
Sr. No	Project Title	Class	Name of student /Supervisor				
1.	Ichthyofaunal diversity from Ganeshgule, Ratnagiri, west coast of Maharashtra. <u>https://shorturl.at/lxEKX</u>	F.Y. B. Sc.	Ms. Sharvari Umesh Todankar Ms. Rakhi Sndip Rangankar Ms. Tanvi Subodh Rangankar / Ms. Bhakti Salkar				
2.	Species diversity of birds in and around Kasheli, Ratnagiri. <u>https://shorturl.at/qstT8</u>	F. Y. B. Sc.	Mr. Prasad Promod Sutar and Mr. Pranav Bhalchandra Sutar / Ms. Mohini Bamane				

CHEMISTRY: New Experiments Conducted (01)					
1.	Monitoring of chemical reactions using thin-layer	B.Sc. I/Sem. IV			
	chromatography (TLC) No of Beneficiaries- 48	https://shorturl.at/sEQWZ			

ANNEXURE -II

LIST OF TRAINING COURSES/WORKSHOPS/CONFERENCES ATTENDED BY THE FACULTY DURING FY: 2022-23

DEPARTMENT: ZOOLOGY

	Title	Date	Proofs
			(Hyperlinked)
Nam	e: Dr. Madhura Mukadam		
1.	One-Day Gender Sensitization Workshop	21 st Feb. 2023	http://tinyurl.com/3fruzxsp
2.	International Conference on Beyond Access	23 to 25 th Feb.	http://tinyurl.com/2tvnd8da
	and Parity" Complicating the Narrative of		
	Gender equality in Higher education in		
	India.		
Nam	e: Ms. Mohini Bamane		
1	Accidents do not happen accidentally	11 th Oct. 2022.	http://tinyurl.com/5bwjunn5
2	Popularising the science of DNA barcoding	7 th -9 th Dec. 2022	
3	Bioinformatics tools & their applications	4 to 5 th Feb.2023	



4.	One-Day Gender Sensitization Workshop	21st Feb. 2023	http://tinyurl.com/3v9njv6b
5.	International Conference on Beyond Access	23 to 25th Feb.	
	and Parity" Complicating the Narrative of		
	Gender equality in Higher education in		
	India.		
Na	me: Dr. Amruta Bhave		
1	Accidents do not happen accidentally	11 th Oct. 2022.	http://tinyurl.com/yckswu2p

DEPARTMENT: BOTANY

	Name	Title	Date	Proofs (Hyperlink ed)
1.	Mr. Sharad Anandrao Apate	Accidents do not happen accidentally	11 th Oct. 2022.	
2.	Dr. Sonali Santosh Kadam Rujuta Parag Godbole Priyanka Amol Shinde-Avere Mr. Paresh Ganpat Gurav	Accidents do not happen accidentally	11 th Oct. 2022.	http://tinyur
3.	Dr. Sonali Santosh Kadam Rujuta Parag Godbole Priyanka Amol Shinde-Avere Mr. Paresh Ganpat Gurav	Maharashtra State Development of Educators and Enhancement in Delivery (MS-DEED) Programme	3 rd to 5 th April 2023	<u>l.com/r5fkp</u> <u>e3b</u>
4.	Dr. Sonali Santosh Kadam Rujuta Parag Godbole Priyanka Amol Shinde-Avere Mr. Paresh Ganpat Gurav	Bioinformatics tools & their applications	4 to 5 th Feb.2023	

ANNEXURE -III

EXHIBITIONS /SEMINARS/TRAINING COURSES CONDUCTED/ VISITS DURING FY: 2022-23

	Title	Date	Resource Persons	No. of Beneficiaries		
Departi	nent of Zoology					
Trainin	gs					
1.	Research techniques in	9 th May to	Dr. Madhura Mukadam	10		
	biological sciences	13 th May	Mr. Ambadas Rodge	http://tinyurl.co		
		2022	Ms. Mohini Bamane	<u>m/2du7pffc</u>		
Worksh	Workshops					
1.	Bioinformatics Tools and	4th and 5th	Experts from Codon	28		
	Applications	Feb. 2023	Biosciences, Goa	http://tinyurl.co		
				<u>m/2wrc6847</u>		
2.	Preparation of Permanent	13th Feb.	Dr. Madhura Mukadam	30		
	Histological slides	2023 to 14th	Mr. Ambadas Rodge	http://tinyurl.co		
		Feb. 2023	Ms. Mohini Bamane	m/ev9akrd6		
3.	Electrophoresis and	23rd Feb.	Dr. Amruta Bhave	30		
	Molecular Biology	2023 to 25th	Ms. Bhakti Salkar	http://tinyurl.co		
	techniques	Feb. 2023		m/4nx8juec		
Semina	r					
1.	Coastal Wetlands of India:	2nd Feb.	Dr. Mahua Saha,	97		
	Threats and Solutions	2023	Scientist, NIO	http://tinyurl.co		
				<u>m/2w54j2nf</u>		



			Dr. Deepak Apte, EX- Director, BNHS, Mumbai	
Field Vis	sits			
1	Visit to Histopathology Museum of B.K. Walawalkar Hospital, Dervan	19 th Aug. 2022	Mr. Ambadas Rodge Ms. Mohini Bamane	31 http://tinyurl.com/sxyb <u>6uvd</u>
2	Field visit at cage culture, Gurav-wadi, Gaonkhadi and Mangrove safari at Pavas.	16 th Jan. 2023	Mr. Ambadas Rodge Ms. Mohini Bamane	20 https://shorturl.at/iNQ TZ

	Title	Date	Resource Persons	No. of Beneficiaries
Departm	ent of Chemistry			
Worksho	ops			
1.	Research grants from RGSTC	21/09/2022	Dr. V.V. Mahajani	20 https://shorturl.a t/hknJ3
2.	Microscale Techniques in Chemistry	11/12/2022	Dr. A. M. Kulkarni	24 https://shorturl.a t/egCT6
Field Vis	its	•		
1.	Midspray Pvt. Ltd. (Cipla) Goa	21/01/2023	-	28 https://shorturl.a t/cgmU3

	Title	Date	Resource Persons	No. of Beneficiaries
Departn	nent of Physics			Denenciaries
Trainin	Ŭ			
1	Exploring the world of	06/01/23 to	Dr Shirish Pathare,	34
	science with experiments	08/01/23	Mr. Chetan Mandloi,	http://tinyurl.co
	-		HBCSE TIFR	m/yn4dutpd
Exhibiti	ons	•		
1	Project and Book	02/02/2023	-	51
	Exhibition			http://tinyurl.co m/yc2nvttm
Field Vi	sits			
1	Study visit to Railway	02/03/23	Mr. Kove -Station	15
	Station -Ratnagiri		Superintendent	http://tinyurl.co
			-	m/yjsuvcs7
2	Study visit to Pilot Balloon	17/02/23	Mr R. B. Sonar –	16
	Observatory, Nachane,		Meteorologist-A, Pilot	http://tinyurl.co
	Ratnagiri		Balloon Observatory	m/44wn8ttf

Sr. No.	Title	Date	Resource Persons	No. of Beneficiaries
Departm	ent of Botany			
Training	g courses			
1.	Fruit preservation and	23^{rd} to 30^{th}	Shri. Sharad Apate	23
	processing certificate	June 2022	Priyanka Shinde-	http://tinyurl.com/4
	course		Avere	<u>6n6rvfc</u>



-		t o the state		
2.	Herbal cosmetics	10^{th} to 17^{th}	Dr. Sonali Kadam	24
	certificate course	Sept & 19 th to	Smt. Rujuta Godbole	http://tinyurl.com/3
		22 nd Oct. 2022		fbkt26e
3.	Plant propagation	09^{th} to 17^{th} Jan.	Shri. Sharad Apate	39
	practices certificate	2023	Dr. Sonali Kadam	http://tinyurl.com/4
	course			<u>d3rmfte</u>
Worksh	lops			
1.	Plant Identification	06^{th} to 07^{th}	Prof. Milind Sardesai	22
		Feb. 2023		http://tinyurl.com/
				mv2p98nt
Exhibit	ions			
1.	Mangroves and	26 th July 2022	-	125
	Mangrove-Associated			https://rb.gy/tz6cek
	Plants			
2.	Medicinal plants	24th and 25th	-	255
	-	August 2022.		https://shorturl.at/l
		C		CPZ4
Visits:				• · · · · · · · · · · · · · · · · · · ·
1.	Field visit to Amba	16 December	Mr. Apate Sharad	35
1.	Ghat	2022	Mrs. Godbole Rujuta	http://tinyurl.com/y
			5	ck8t7a8
2.	Field visit to Ranpar	23 July 2022	Mr. Apate Sharad	29
		-	Mrs. Shinde-Avere	http://tinyurl.com/3
			Priyanka	sbvrbj4

ANNEXURE -IV

BOOKS PURCHASED/ JOURNALS SUBSCRIBED IN FY: 2022-23

DEPARTMENT: ZOOLOGY

S. No.	Title	Qty	Author	Publisher
1.	Maharashtrachi	1	Swapna Prabhu, Deepak	Srushti Conservation
	Kandalvan Sampada		Apte and Nishigandha	Foundation
			Pednekar	https://shorturl.at/ivGNQ
2.	Maharashtrachi Sagar	1	Vishal Bhave, Atul Sathe	Srushti Conservation
	Sampada		and Deepak Apte	Foundation
				https://shorturl.at/ivGNQ
3.	The Essentials of Forensic	1	K. S. Narayan Reddy and	Jaypee Brothers Medical
	Medicine & Toxicology		O.P. Murty	Publ. Ltd.
				https://shorturl.at/flwLU
4.	Curious Researcher: A	1	Bruce Ballenger	Pearson Education Ltd.
	Guide to Writing			https://shorturl.at/nyTU
	Research Papers			<u>X</u>
5.	Research and Publication	1	Debabrata Basu, Samarpan	Concept publishing
	Ethics: A textbook		Chakraborty and Aditya	company
			Sinha <u>https://shorturl.at/rvHS4</u>	
6.	Writing Quality Research	1	Pawan Singh and Baseem	Bpb publications
	Papers		Khan	https://shorturl.at/bqERY



ANNEXURE -V

OUTREACH INTERDISCIPLINARY ACTIVITIES DURING FY: 2022-23

DEPARTMENT: PHYSICS

Sr. No.	Name of Activity	Date/s		Beneficiaries
1	Come and Learn Physics	25/02/23	85	http://tinyurl.com/5nfc5ya3
DEDAT	TMENT. DOTANU			

DEPARTMENT: BOTANY

Sr. No.	Name of Activity	Date	Beneficiaries
1.	Nature Walk for the members of Paryavaran Janiv - Jagruiti Mandal, Abhyankar – Kulkarni Jr. College, Ratnagiri	21/08/ 2022	85 https://shorturl.at/GIRX6

ANNEXURE -VI

INVITED LECTURES DURING FY: 2022-23

DEPARTMENT: ZOOLOGY

Sr.	Торіс	Resource Person	Date	Beneficiaries
No.				
1	Microplastics in	Dr. Mahua Saha, Principal	2 nd Feb. 2023	75
	Wetlands possible	Scientist, COD, NIO, Goa.		https://shorturl.at/
	threat to the ecosystem.			vyzW2
2	Climate Change and	Dr Deepak Apte, Director,	2 nd Feb. 2023	75
	Migratory Birds	Shrusti Conservation		https://shorturl.at/
		Foundation, Pune		<u>agjxB</u>
3	Freshwater Ecosystems	Dr Unmesh Katwate,	10 th Jan. 2023	50
	of the Western Ghats	Scientist B, Bombay Natural		https://shorturl.at/
		History Society of India		dhEL4

DEPARTMENT: CHEMISTRY

Sr. No.	Торіс	Resource Person	Date	Beneficiaries
1	Green Jobs in the Environmental	Dr Saraf	06/12/2022	150
	Sector			https://shorturl.at/lpCFQ
2	Am I on the right path	Dr. Prabodh	12/10/2022	200
		Choube		https://shorturl.at/ivNO0

DEPARTMENT: BOTANY



Sr. No.	Торіс	Resource Person	Date	Beneficiaries
1	Carnivorous Plants	Milind Sardesai	6 th Feb. 2023	108 https://shorturl.at/bjlN8
2	Biodiversity conservation: Importance and opportunities	Dr. Anuradha Upadhye	9 th Jan. 2022	75 https://rb.gy/jucwt7