Email: dcdprincipal@gamil.com Website: www.dahiwadicollege.in



Student Satisfaction Survey REPORT 2022-23

Criterion II Teaching-Learning and Evaluation

Rayat Shikshan Sanstha's,

Dahiwadi College Dahiwadi

Tal-Man, Dist-Satara-415508



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Academic Year: 2023-24

Introduction:

Rayat Shikshan Sanstha's, Dahiwadi college Dahiwadi reaccredited "A⁺⁺ grade by NAAC has clear focus on excellence in academics, co-curricular activities and an overall growth of all stakeholders. The IQAC committee takes regular feedback from students to ensure improvements wherever required and conducts Student Satisfaction Survey (SSS) for the academic year 2023-24 to monitor and analysis the student's perception about Teaching – Learning and evaluation process, which will help to upgrade the quality in higher education of college. This report will analyze the latter in a detailed manner.

• Methodology of Survey:

A standard multiple choice question format of the feedback pro-forma was devised by using the questionnaire on teaching-learning and evaluation recommended by the NAAC on Google form. It was an anonymous survey to maintain objectivity in the entire process. In this online survey, feedback was taken from a randomly across all programs viz. Commerce and Management, Science and Arts. The recorded student's response for this survey has analysed using software which will aggregate the response and generate the score of student satisfaction survey.

Phases of Student Satisfaction Survey:

The following are the Phases of Student Satisfaction Survey,

- Designing of an online questionnaire
- Collection of student feedback
- Interpretation and analysis of results
- o Communication of results to the Principal
- o Communication of results to person/in-charges/department concern
- Action Plan
- Action Taken Report

Overall Sample Size:

- Total no of students (UG + PG) enrolled in the college: 2199
- The responses were received from students across all disciplines offered by the college: 2014

• Analysis, interpretation and action taken:

Part I:

Q. A) Please confirm this is the first and only time you answer this survey.

Interpretation:

100 % respondents reported they filled this

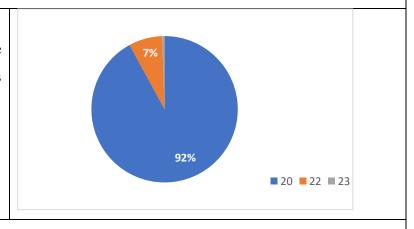
Form first time and only time this survey



Q. B) Age

Interpretation:

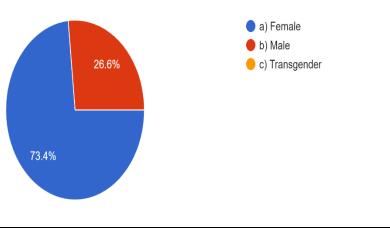
92 % respondents reported their age 20 years while 7 % of respondents report their age 22



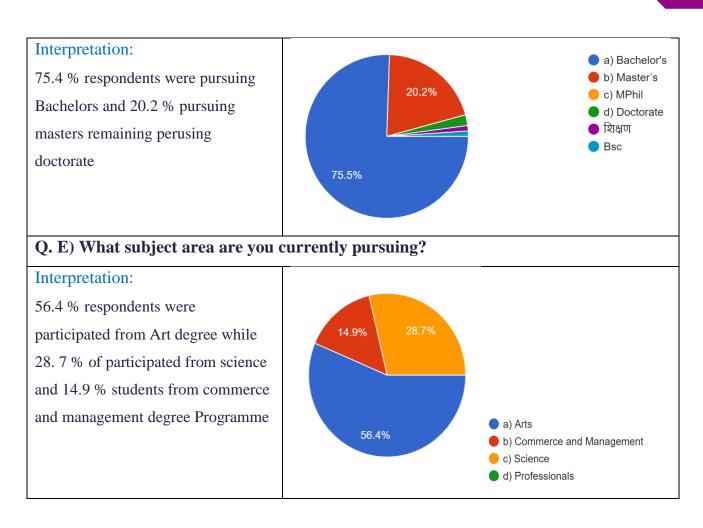
Q. C) Gender

Interpretation:

73.4 % respondents reported gender female while 26. 6 % of respondents report gender male



Q. D) What degree program are you pursuing now?

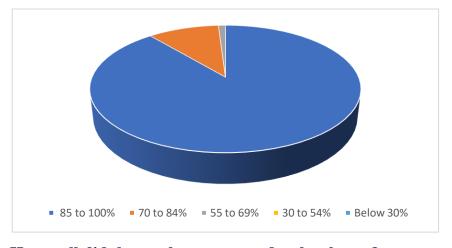


Part II: Student Satisfaction Survey on Teaching Learning Process

Feedback Q. 1: How much of the syllabus was covered in the class?

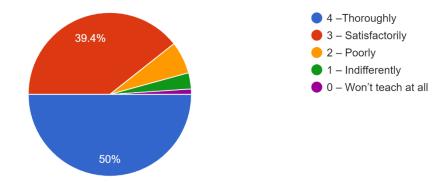
Response interpretation:

88 % respondents reported 85-100 % completion of syllabus while 11 % of respondents report 70-84 % in terms of the satisfaction received with syllabus was covered in the class while only 1 % respondents report 55-69 % coverage of syllabus.



Feedback Q. 2: How well did the teachers prepare for the classes?

89.4 % respondents reported good preparation did by the teachers and around 9 % were reported poor preparation for the classes.



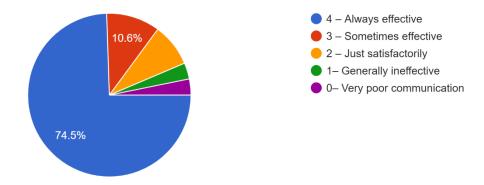
Action Taken:

The clear instruction were given by the head of department ton the respective subject teachers about preparation and HOD monitor the level of preparation of teachers for class.

Feedback Q. 3: How well were the teachers able to communicate?

Response interpretation:

75.1 % of respondents were reported the communication level to effective while 8.5 % reported just satisfaction level teachers' communication to students. 6.4 % respondent are not satisfied with the above statement.

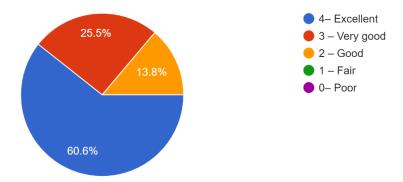


Action Taken:

The teacher's communication increased by using mentor mentee scheme.

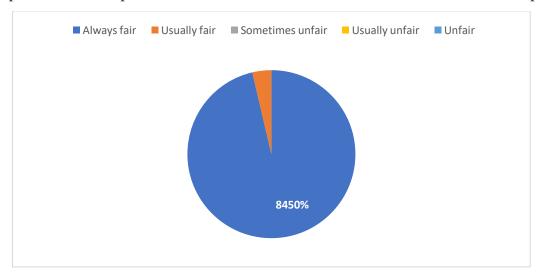
Feedback Q. 4: The teacher's approach to teaching can best be described as Response interpretation:

100 % of respondents report the satisfaction received in terms of the teacher's approach to teaching. This feedback is reflect the teachers view along their profession.



Feedback Q. 5: Fairness of the internal evaluation process by the teachers.

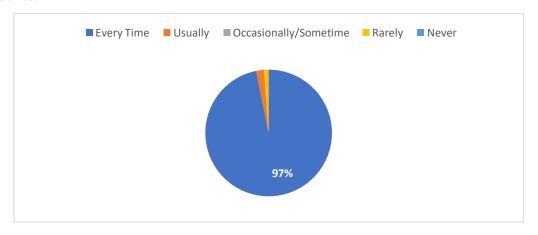
100 % respondent were reported the teachers maintain fairness in internal evaluation process.



Feedback Q. 6: Was your performance in Unit Tests/assignments/prelim examination discussed with you?

Response interpretation:

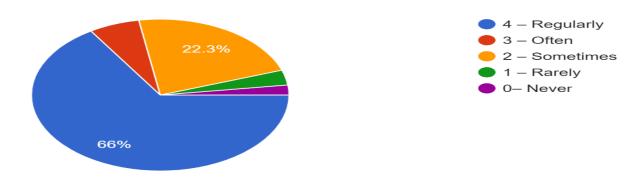
100 % respondent were reported the performance in unit tests/assignment/prelim discussed with students.



Feedback Q. 7: The institute takes active interest in promoting internship, student exchange, field visit opportunities for students.

Response interpretation:

66 % respondent were agreed with Regularly while 22.3 % agree with sometime and 6 % agree with oftenly institute takes active interest in promoting internship, student exchange, field visit opportunities for students. This part is key part of NEP 2020.



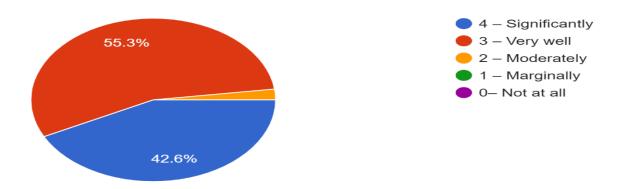
Action Taken:

The institute has decided to promote internship, student exchange, field visit opportunities for students from academic year 2023-24.

Feedback Q. 8: The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.

Response interpretation:

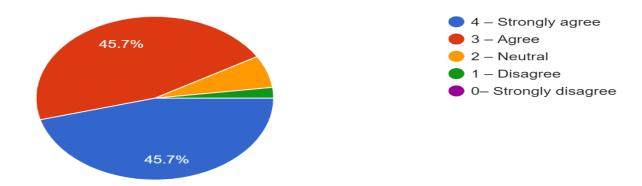
97.9 % respondent were reported significantly and very well with The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth while 2.1 % moderately agreed with this statement.



Feedback Q. 9: The institution provides multiple opportunities to learn and grow.

Response interpretation:

Most of the respondents were satisfied with the institution provides multiple opportunities to learn and grow



Feedback Q. 10: Teachers inform you about your expected competencies, course outcomes and programme outcomes.

Response interpretation: :

Most of the respondents were satisfied with the Teachers informed them about expected competencies, course outcomes and programme outcomes.



Action Taken:

All Head of Department instruct the teachers about the communication of POs and COs to the students to the first lecture of semester start. The teachers follow all the instructions.

Feedback Q. 11: Your mentor does a necessary follow-up with an assigned task to you.

Response interpretation: Most of the Students are satisfied with the required follow-up done by mentor to an assigned task.



Feedback Q. 12: The teachers illustrate the concepts through examples and applications.

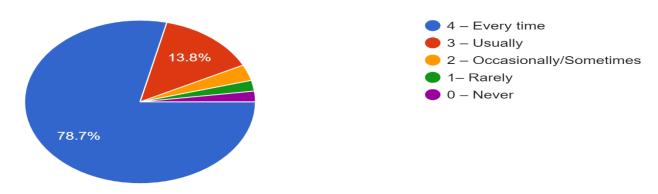
Almost all respondent were reported their teachers illustrate the concept throught examples and applications.



Feedback Q. 13: The teachers identify your strengths and encourage you with providing right level of challenges.

Response interpretation:

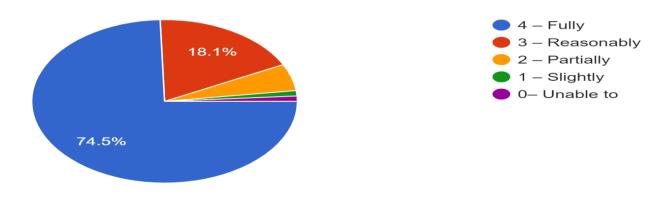
Most of the respondent were satisfied with teachers identified the strengths and encourage students with providing right level of challenges.



Feedback Q. 14: Teachers are able to identify your weaknesses and help you to overcome them.

Response interpretation:

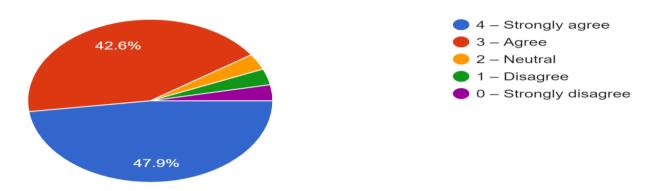
74.5 % respondent were reported the teachers able to identify the weakness and help them to overcome them while 18.1 % reasonably and 5.3 % respondent were partially agreed.



Feedback Q. 15: The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process.

Response interpretation:

90.5 % respondent were reported satisfaction with the institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process.



Feedback Q. 16: The institute/ teachers use student centric methods, such as experiential learning, participative learning and problem solving methodologies for enhancing learning experiences.

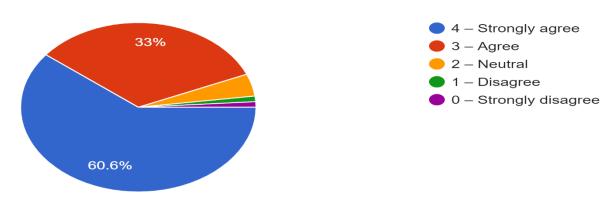
The satisfaction level of students with respect to student centric learning methods is around 92.6 %. It is also seen that some students are dissatisfied with this view.



Feedback Q. 17: Teachers encourage you to participate in extracurricular activities.

Response interpretation:

83.6 % respondent were agreed with above statement while 4.3 % were neutral. 2.2 % respondent disagree with above.



Feedback Q. 18: Efforts are made by the institute/ teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work.

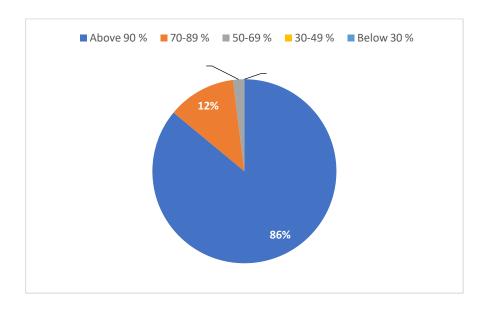
Response interpretation:

67% respondent were agree to a great extent and 24.5 % reported moderate level while 7.4 % chose somewhat agree with Efforts are made by the institute/ teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work.



Feedback Q. 19: What percentage of teachers use ICT tools such as LCD projector, Multimedia, etc. while teaching.

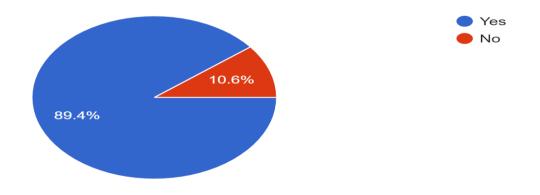
Most of the faculty members use ICT tools such as LCD projector, Multimedia, etc. while teaching.



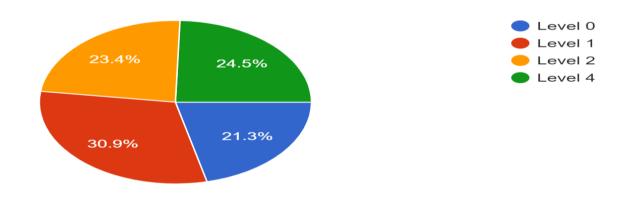
Feedback Q. 20: The Programme outcome, Programme specific outcomes and Course outcomes displayed on website and in campus.

Response interpretation:

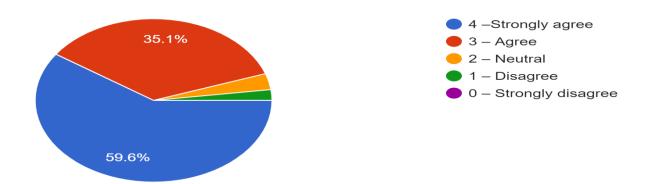
 $89.4\ \%$ respondent report "yes" for above Feedback.



Feedback Q. 21: Level of programme outcome achieved



Feedback Q. 22: The overall quality of teaching-learning process in your institute is very good.



Feedback Q. 23: Give three observation / suggestions to improve the overall teaching — learning experience in your institution.

Response interpretation:

The Positive observations- Excellent teaching improvement not necessary, Good teaching Always supportive teachers Helps in study also, Learning experience is good All teacher sportive Good environment for study

The suggestion is given by the respondent- More skill-oriented courses should be tought Use of ICT Tools, Arrange more examination

Action Taken:

- 1. The skill-oriented courses were offered and more students were promoted for advance skill course offered by renewed institutions.
- 2. The teachers instructed to use more ICT tools during teaching learning.
- 3. The examinations such as home assignments, quiz's, open book tests and surprise tests were arranged.

Feedback Prepared by: Mr. S. B. Kumbhar, Chairman Criterion II

Sign of IQAC Coordinator: Dr. A. N. Dadas, IQAC Coordinator

Coordinator
IQAC
Dahiwadi College Dahiwadi
Tal-Man, Dist-Satara (MS) 415 508

Sign of Principal: Dr. S. T. Salunkhe

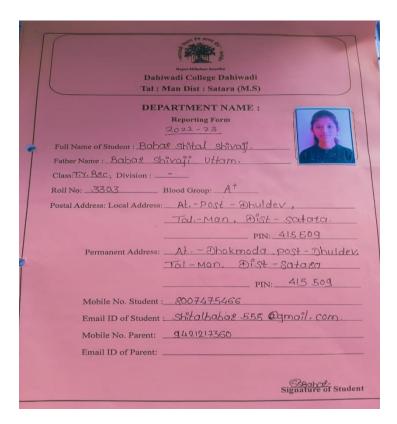


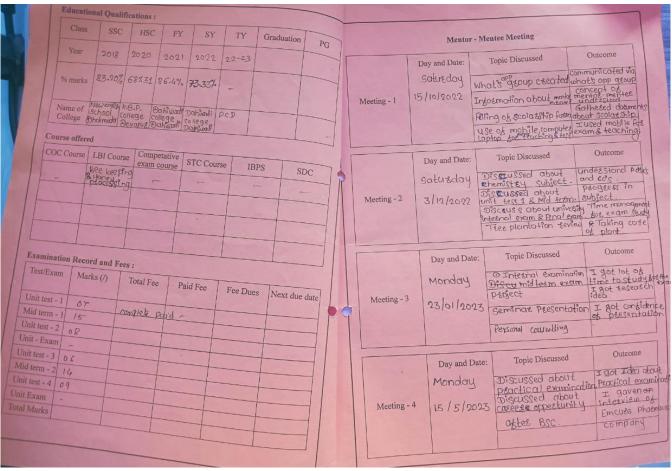
PRINCIPAL DAHIWADI COLLEGE, DAHIWAD TAL. MAN, DIST. SATARA.

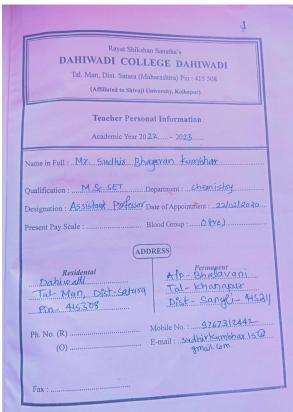
• List of Evidence of Action Taken

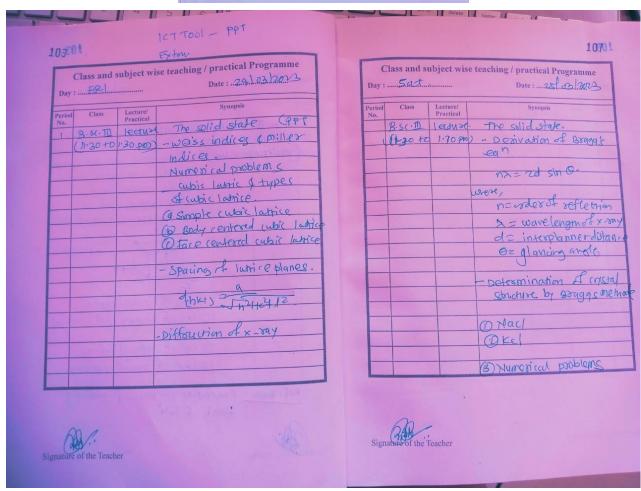
Sr. No.	Name of Document	Page No.		
1	HOD Meeting showing instruction given to teachers about	17		
1	preparation for the classes	17		
2	Mentor Mentee Report	18		
3	Faculty teaching diary lesson note			
4	Faculty communicate COs POs to the students			
5	Online Course offered by Infosys Springboard completed	21		
	list	21		
6	Advanced Excell course completed students list	22-23		
	The Teachers use ICT Tools-			
7	Blended Learning, Swayam Courses registration, YouTube	24-28		
	Videos etc.			
8	Record of home assignments	29		
9	Record of Quiz's	30		
10	Record of open book tests	31		
11	Record of surprise tests	32		
12	Subject Specific Numerical Problem Solving	33-35		

	Departmental meeting Date 102/01/2023,
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M.	Dimetable of com II, fall classes
	O segular proof cal & Theory lecture 9 of Classes.
	3 70 superior of minerily examinal in
	3 spill development courses y cac, chan term curse - spillabus, online lecture (Lps).
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	@ M-SC-I & internal examination
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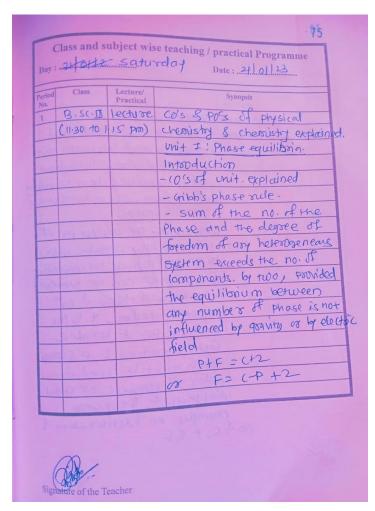








Rayat Shiksl DAHIWADI COLI Tal. Man, Dist. Satara (N (Affiliated to Shivaji	LEGE DAHIWADI
	nal Information
Designation : As sis-land Professor	Department:
Residental Dahiwahi Tal-Man, Dest-Catava Rn-415308 Ph. No. (R) (0)	Mobile No.:



Rayat Shikshan Sanstha's

Dahiwadi College Dahiwadi Tal. Man, Dist. Satara

Department of Mathematics

Online Course Completed Student List Offer by Infosys Springboard

Year 2022-2023

Sr. No.	Name of Course	Name of Student	No. Of Beneficiaries
1 Basics of		Vaishnavi Manij Bhojane	
		2. Jyoti Arun Bodake	
	Basics of Python	3. Komal Balaso Ghorpade	5
		4. Tanija Sunil Madane	
		5. Gauri Appaso Mane	
		Vaishnavi Manij Bhojane	
	Basics of Linear	2. Jyoti Arun Bodake	
2 A	Algebra using	3. Komal Balaso Ghorpade	5
	Python	4. Tanija Sunil Madane	
		5. Gauri Appaso Mane	

Department of Mathematics Dahiwadi College Dahiwadi Tal. Man, Dist. Satara,

DAHIWADI COLLEGE, DAHIWADI TAL. MAN. DIST. SATARA.

Rayat Shikashan Sanstha's

Dahiwadi College Dahiwadi

Tal. Man, Dist. Satara

Department of Mathematics and MSCIT Center

ADVANCED MS-EXCEL

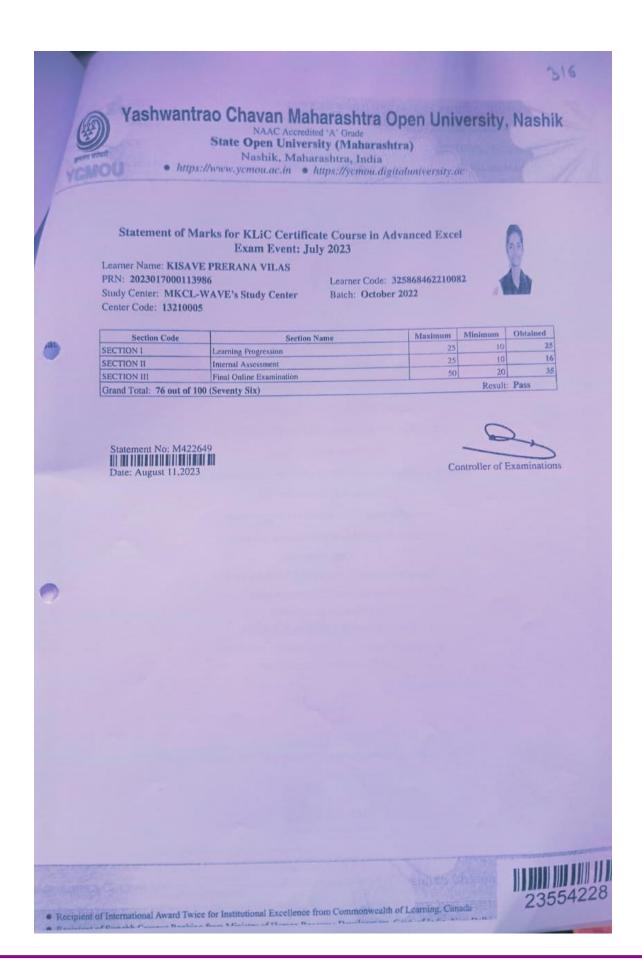
Register Student List (A. Y. 2022-23)

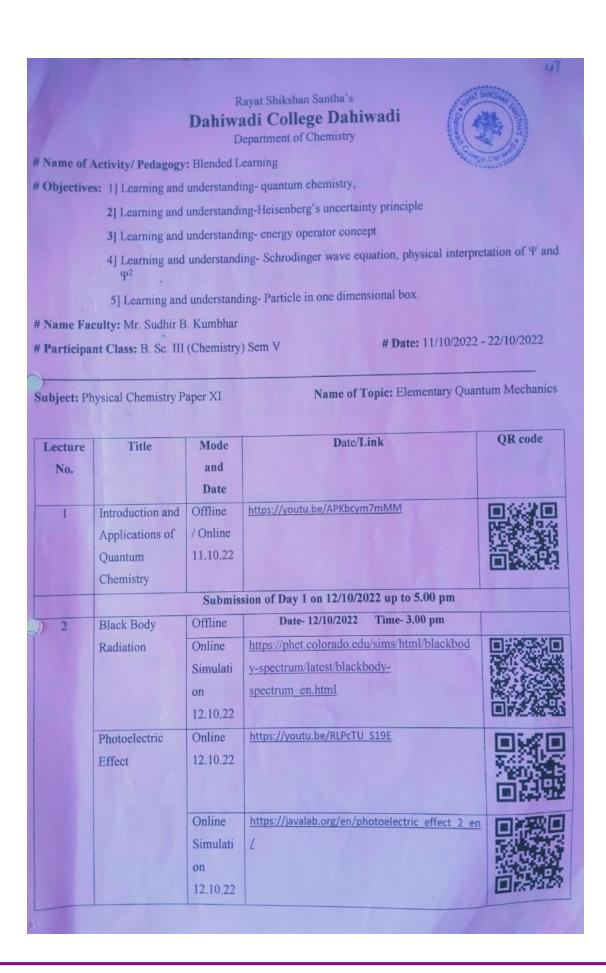
	Sr. No	o. Roll No.	Name of the Student	Signature
	1	3002	DADAS TUSHAR BIRU	-1-24
	2	3003	GODSE TRUPTI RAMESH	Riche
1	3	3006	KENGAR SAKSHI SHANKAR	A.ergro
	4	3007	KUMBHAR NIKHIL GORAKHNATH	Othumbhar
	5	3077	JAGADALE ARATI VIJAY	Fratto
	6	3079	POL NIKITA DASHARATH	40
	7	3083	JANGAM OMKAR SHANKAR	QT-
	8	3084	AWAGHADE AMRUTA DADASO	Amnulas
	9	3085	BORATE SHIVANI LAXMAN	Borate
	10	3086	KISAVE PRERANA VILAS	Ekisde
	11	3087	SASTE SHUBHAM RAJDNEDA	Sporte.
	12	3088	SHINDE SARVESHWAR POPAT	& Rinde
	13	3089	BALLAL AJINKYA DADASO	ABOURL.
	14	3092	KOLEKAR MEENA BAPU	Jung
	15	3093	MARGALE AKSHAY TATYASO	Royck
	16	3098	SHINDE SAKSHI SUNIL	Prince
	17	3099	SURYAWANSHI SHIVAM SURYAKANT	Sim
	18	3100	TAMBAVE GAURI DATTATRAY	Gare
	19	3101	ZIMAL OMKAR ASHOK	admos
	20	3104	JAGADALE SWAPNALI ASHOK	Jagadale.
	21	3107	MULANI NUJAT NAJIR	梅丰

Br. A.S. Wadile) (0-oodinator.

Head
Department of Mathematics
Dahiwadi College Dahiwadi
Tal. Man, Dist. Satara.







	Compton Effect	Online 12.10.22	https://youtu.be/Hh0A35bpHvg	見想
3	Duel nature of matter and energy: de-Broglie hypothesis	Online 13.10.22	https://youtu.be/jWQhiLSOuCM	里 際里
	Heisenberg Uncertainty Principle	Online 13.10.22 Offline demo on 14.10.22	https://youtu.be/ge-hT-70XAY	
	Subn	nission of D	ay 2 and Day 3 report on 14/10/2022 upto	5.00 pm
4	Concept of operator in quantum chemistry	Online 14.10.22	https://youtu.be/peZqaW9-kq8	
	Rules for Deriving Equation of Any Operator	Online 14.10.22	https://youtu.be/xqR1NadHwzs	
	Hamiltonian Operator Concept of Energy Operator	Online 14.14.22	https://youtu.be/zKnH2Mm5a04	
		Submission	n of Day 4 report on 15/10/2022 upto 5.00	pm
5	Schrodinger Wave Equation w. r. t. Space	Online 15.10.22	https://youtu.be/R5cTzr-cFZ4	
6	Well behaved wave function and interpretation of the Ψ and Ψ^2	Offline 15.10.22	Date-15/10/2022 at 11.30 am	Sales Sales
		Sub	mission of Day 6 report on 17/10/2022	I S ATT

		Particle in One dimensional box Wave function & Energy	Online 16.10.22	https://youtu.be/JanKorv8l.mk	
		Summary of topic Elementary Quantum Mechanics	Online 16.10.22	https://youtu.be/_inK9Lhj-J8	
			Submissi	on of Day 5 and Day 7 report on 17/10/2022	
	8	Numerical Problems	Offline	Date-20/10/2022	
	9	Discussion	Offline	Date- 21/10/2022	
		Session	Online	Date: 11/10/2022 to 21/10/2022 On Google Class Room	
	10	Unit Test [MCQ]	Online	Date- 22/10/2022	
	11	Feedback link	Online	Date 22/10/2022	THE RESERVE

For further reading refer following books:

- 1) Elements of Physical Chemistry- P. W. Atkins [Oxford University Press]
- 2) Advance Physical Chemistry- Gurudeep Raj [Goel Publishing House]
- 3) Principles of Physical Chemistry- Puri, Sharma and Pathnia [Vishal Publishing]
- 4) Quantum Chemistry- R. K. Prasad [New Age International Publication]
- 5) Introductory Quantum Mechanics- A. K. Chandra [McGraw Hill Education]
- 6) Text book of physical Chemistry- Naik, Yadav, More, Supale [Phadake Prakashan]

Date: 10/10/2022

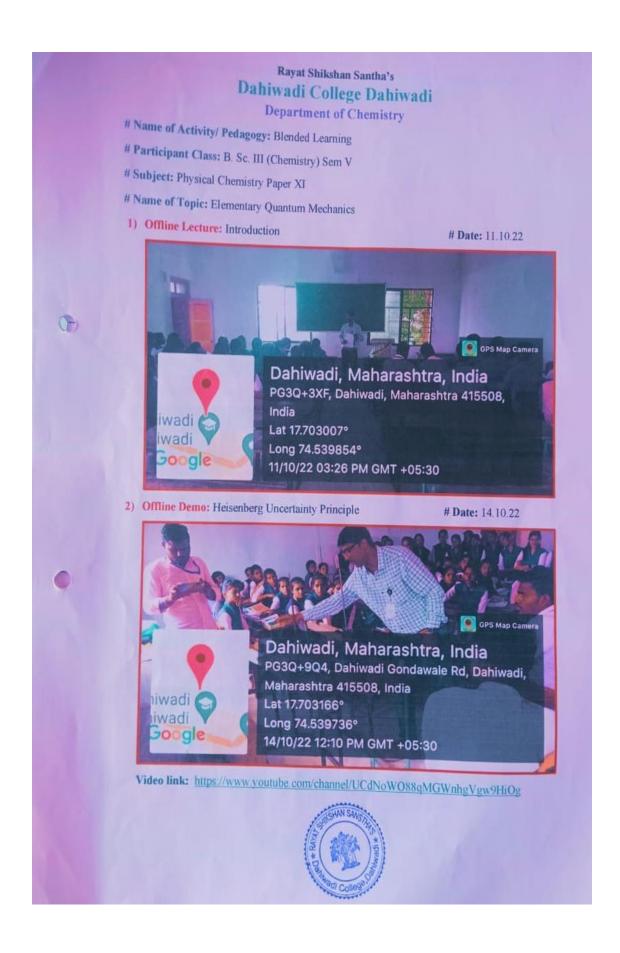
#Place: Dahiwadi

Sign of Faculty

(Mr. Sudhir B. Kumbhar)



Department of Chemistry Dahiwadi college Dahiwadi







Rayat ShikshanSantha's Dahiwadi Collage Dahiwadi Department of Computer Science Year 2022-23

Assignment Record B.Sc-III

Core Java and Advanced Java

Sr.No	Roll	Student Name	Assignment No 1	Assignment No	Assignment No 3
DIATO	No.		13/10/2022	10/12/2022	09/02/2022
1	3511	Babar shivani Manohar	✓	√	✓
2	3512	Babar Vaishnavi Tanaji	✓	✓	✓
3	3513	Balip Arpita Narayan	✓	√	√
4	3514	Chavan sohan santosh	1	AB	√
5	3515	Gholap Vishakha tanaji	✓	✓	✓
6	3516	Hange Pallavi Prakash		1	√
7	3517	Jadhav Shreya Chandrakant	✓	1	✓
8	3518	Jadhav Shubham Ganpat	√	AB	✓
9	3519	Jagadale Amar Ratnakar	1	AB	✓
10	3520	Jagadale Rohit Shrikrushna	1	1	√
11	3521	Jagdale Vikrant Shankar	1	1	✓
12	3522	Kachare Vishal Shashikant		. 1	1
13	3523	Kadam Abhishek Anandrao	✓	✓	✓
14	3524	Kale Sonali Prabhakar	✓	✓	√
15	3525	Kalsait Yash Dattatray	1	AB	√
16	3526	Kashid Rushikesh Subhash	✓	√	✓
17	3527	Katkar Saurabh Babaso	√	AB	✓
18	3528	Kharare Neha Rajkumar	AB	1	✓
19	3529	Kharat Kiran Kisanrao	1	✓	✓
20	3530	Kharat Sarika Namdev	1	√	√
21	3531	Kumbhar Shubham Kalidas	/		✓
22	3532	Lokhande Gauri Devidas	1	/	V
23	3533	Mahadik Priti Rajendra	1	/	1
24	3534	Nalawade Shubham Vijay	1	AB	V
25	3535	Nimbalkar Aishwarya	AB	/	V
26	3536	Pawar Pallavi Yuvraj	AB	1	/
27	3537	Pawar Shradha Sudhakar	/	/	

	28 3.	538 Pol Kajal Laxman	1	V	1	
_		539 Raje shashikant rajendra	V	AB	✓	
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					Department of C	computer Science



Rayat Shikshan Sanstha's **Dahiwadi College Dahiwadi**Tal. Man, Dist. Satara



Department of Mathematics

On the Occasion of National Mathematics Day-2022

(Birth Anniversary of a Genius Mathematician Srinivasa Ramanujan)

On the occasion of National Mathematics Day (22 December, 2022), Department of Mathematics and Statistics, Dahiwadi College Dahiwadi is organizing a Online Quiz Competition for B. Sc. I, B. Sc. II and B. Sc. III Mathematics students.

Date of Quiz Competition

22 December, 2022

Time

11:00 AM to 12:00 PM

Syllabus

General Mathematics

Place of Quiz

Online Platform, Google Forms

Prizes

1) Rank I (Rs. 301/- Memento and Certificate)

2) Rank II (Rs. 201/- Memento and Certificate)

3) Rank III (Rs. 101/- Memento and Certificate)

Mr. A. S. Wadile Convener and Head

Department of Mathematics



Prin. Dr. S. T. Salunkhe Chief Organizer



Rayat ShikshanSantha's Dahiwadi Collage Dahiwadi Department of Computer Science Year 2022-23

Open Book Record B.Sc-III

Core Java & Advanced Java

	Roll		Open Book No 1	Open Book No 2	Open Book No	
Sr.No	No.	Student Name	05/11/2022	13/12/2022	25/03/2023	
1	3511	Babar shivani Manohar	08	08	09	
2	3512	Babar Vaishnavi Tanaji	09	10	10	
3	3513	Balip Arpita Narayan	10	10	09	
4	3514	Chavan sohan santosh	09	08	08	
5	3515	Gholap Vishakha tanaji	10	10	09	
6	3516	Hange Pallavi Prakash	AB	09	09	
7	3517	Jadhav Shreya Chandrakant	09	10	09	
8	3518	Jadhav Shubham Ganpat	08	08	08	
9	3519	Jagadale Amar Ratnakar	10	08	AB	
10	3520	Jagadale Rohit Shrikrushna	10	08	08	
11	3521	Jagdale Vikrant Shankar	08	08	AB	
12	3522	Kachare Vishal Shashikant	08	08	AB	
13	3523	Kadam Abhishek Anandrao	10	08	10	
14	3524	Kale Sonali Prabhakar	08	09	09	
15	3525	Kalsait Yash Dattatray	AB	08	08	
16	3526	Kashid Rushikesh Subhash	08	08	AB	
17	3527	Katkar Saurabh Babaso	AB	AB	08	
18	3528	Kharare Neha Rajkumar	AB	09	09	
19	3529	Kharat Kiran Kisanrao	10	10	AB	
20	3530	Kharat Sarika Namdev	AB	09	08	
21	3531	Kumbhar Shubham Kalidas	AB	08	08	
22	3532	Lokhande Gauri Devidas	10	10	09	
23	3533	Mahadik Priti Rajendra	10	10	10	
24	3534	Nalawade Shubham Vijay	AB	08	AB	
	3535	Nimbalkar Aishwarya Dhanaji	10	10	09	
25		Pawar Pallavi Yuvraj	08	10	09	
26	3536	Pawar Shradha Sudhakar	08	09	09	
27	3537		09	10	09	
28	3538	Pol Kajal Laxman			AB	
29	3539	Raje shashikant rajendra	09	08	AD	



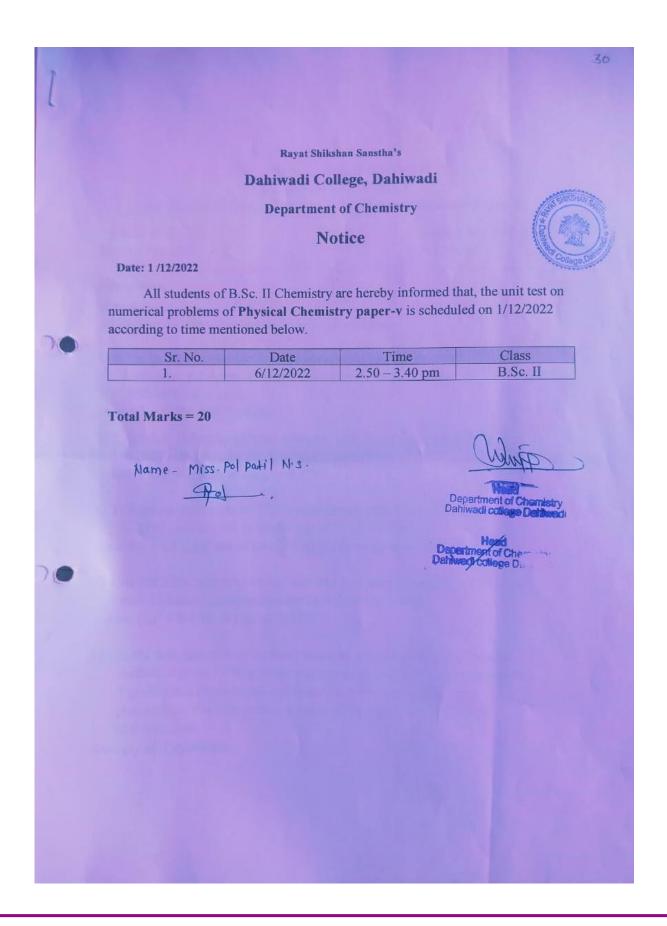
Rayat ShikshanSantha's
Dahiwadi Collage Dahiwadi
Department of Computer Science
Year 2022-23

Surprise Test Record B.Sc-III

Core Java & Advanced Java

			Surprise Test No 1	Surprise Test No 2
Sr.No	Roll No.	Student Name	12/11/2022	13/12/2022
	3511	Babar shivani Manohar	08	06
1	3512	Babar Vaishnavi Tanaji	04	06
2	3513	Balip Arpita Narayan	08	06
3	3514	Chavan sohan santosh	AB	07
4	3515	Gholap Vishakha tanaji	08	05
5	3516	Hange Pallavi Prakash	07	06
6	3517	Jadhav Shreya Chandrakant	08	05
7	3518	Jadhav Shubham Ganpat	07	08
8	3519		AB	07
9	3520	Jagadale Amar Ratnakar	AB	07
10	3521	Jagadale Rohit Shrikrushna	07	04
11	3522	Jagdale Vikrant Shankar	08	06
12	3523	Kachare Vishal Shashikant	500	07
13	3524	Kadam Abhishek Anandrao	07	03
14		Kale Sonali Prabhakar	AB	06
15	3525	Kalsait Yash Dattatray	07	07
16	3526	Kashid Rushikesh Subhash	To fe	AB
17	3527	Katkar Saurabh Babaso	06	04
18	3528	Kharare Neha Rajkumar	06	981177
19	3529	Kharat Kiran Kisanrao	07	07

		Dahiwadi College Dahiwadi		
		Department of Chemisrty		
		S.Y.B.Sc. Result 2022-23		
		Problem Solving		
Sr. No	o Roll No	Name of the Students	Mark	
1	3001	Bhise Pramod Dhulaji	16	
2	3002	Dadas Tushar Biru	12	
3	3003	Godse Trupti Ramesh	14	
4	3004	Gosavi Sanchita Anna	AB	
5	3005	Kalel Shamal Abaso	AB	
6	3006	Kengar Sakshi Shankar	AB	
7	3007	Kumbhar Nikhil Gorakhnath	18	
8	3008	Satre Aishwarya Gajanan	AB	
9	3009	Satre Tejashri Jagannath	14	
10	3010	Babar Pradnya Dhanaji	12	
11	3011	Gaikwad Mahesh Tarachand	AB	
12	3012	Gaikwad Supriya Sanjay	13	
13	3013	Ghadage Avantika Shrikrushna	11	
14	3014	Gharge Aarti Dhanaji	18	
15	3015	Gharge Anuradha Sanjay	AB	
16	3016	Jadhav Pratham Dhanaji	AB	
17	3017	Jagadale Anuja Balasaheb	AB	
18	3018	Kumbhar Devendra Jayvant	17	1
19	3019	More Pritam Popat	AB	
20	3020	Nadaf Anjum Aalam	AB	1
21	3021	Phadtare Ankita Vilas	12	1
22	3022	Shaikh Sana Salim	15	
23	3023	Bhosale Dipali Satish	14	1
24	3024	Dhembare Dipali Maruti	12	1
25	3025	Gosavi Ashwini Avinash	20	
26	3026	Jadhav Ankita Manohar	18	
27	3027	Jadhav Gauri Manohar	14	
28	3028	Jadhav Kiran Raghu	15	1
29	3029	Jagadale Viraj Bramhadev	16	
30	3030	Jagdale Aniket Balaso	12	
31	3031	Kalokhe Gauri Gopal	12	
32	3032	Khade Chaitali Sharad	14	
33	3033	Kolekar Rutuja Jindas	14	
34	3034	Kumbhar Harsh Sunil	11	معمد
35	3035	Mane Sukruta Namdeo	16	J. CHINSHA
36	3036	Mohite Akanksha Virochan	15	量
37	3037	Mulani Sana Yasin	11	制制



Rayat Shikshan Sanstha's

Dahiwadi College, Dahiwadi

Department of Chemistry

Unit Test on Numerical Problems of Physical Chemistry Paper-V

Class- B.Sc. - II

Date: 6 /12/2022

Time: 2.50 - 3.40 pm

Marks-20

Instructions:

1. Each Questions carries 4 Marks.

2. Use Scientific Calculator and log table for calculations.

Q.1 The range of α -particle from a particular radioactive element is 4.3 cm. Calculate the decay constant of radioactive element, if A=49.3, B=40.5 With half-life in years.

Ans: $\lambda = 5.370 \times 10^{-10} \text{ per yr.}$

Q.2 Absolute velocities of NH₄⁺ and NO₃⁻ ions at 298 k are 0.00076 & 0.0007 ms⁻¹ respectively. Calculate transport no. of ions.

Ans: $t_{NH4}^+ = 0.5205 \& t_{NO3}^- = 0.4795$

Q.3 Calculate the weight of ²³⁵U in equilibrium with 1 gm of ²³¹ Th. The half of 235 U is 7.2 x 10⁸ yr. while that of ²³¹ Th is 24.8 hr.

Ans: Nu = 1.1 x 109 gm of atom Weight of uranium = 2.587 x 1011 gm

Q.4 At 298 k the velocities of Ag⁺ and NO⁻ ions are 5.77 x 10⁻⁸ & 6.33 x 10⁻⁸ ms⁻¹. Calculate transport number of Ag⁺ and NO⁻ ions.

Ans: $t_{Ag}^+ = 0.4768 \& t_{NO3}^- = 0.5232$

Q.5 In the determination of surface tension of a liquid by the drop number method, it gives 55 drop while water gave 25 drops for the same volume. The densities of the liquid and water are 0.996 and 0.800 g/cm³ respectively. Find the surface tension of the liquid if that water is 72.0 dynes/cm.

Ans: y1 = 40.7 dynes/cm.