

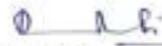


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**DECLARATION**

This is to declare that the information, reports, true copies of the supportive documents, numerical data, etc. submitted/presented in this file is verified by Internal Quality Assurance Cell (IQAC) and is correct as per the records. This declaration is for the purpose of NAAC accreditation of HEI for third cycle period 2018-19 to 2022-23.

  
Co-ordinator, IQAC

  
Principal

**PRINCIPAL**  
VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE  
Vikhroli (E), Mumbai - 400 083.

Date:- 10/11/2023

Place: - Vikhroli, Mumbai.





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**List of Supportive Documents (2.3.1.)**

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## 1. Project Work Samples

### a) BSC IT Project



### b) MSC IT Project





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MSCIT – Project

c) FYBCOM Project

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Kannamwar Nagar No.2, Vikhroli (East),  
Mumbai-400083.  
Batch Year (2022-2023): F.Y BCOM DIV-C

SEMESTER-II

Student Name  
Priya Vijay Zende

Professor Name  
Dr Reshma Anvekar

Project Name: The changing values & lifestyle in  
contemporary Indian Society.  
Roll no: 22210457



Student Sign

Class Teacher Sign

1

d) Project : TY. Bachelor in management studies.

Mr. Raj Rajeev Lokegaonkar

Department of Management Studies  
Vidya Vikas Education Society's  
Vikas College of Arts, Science & Commerce  
Kannamwar Nagar II, Vikhroli (East) Mumbai – 400083.

*Certificate*

This is to certify Mr. Raj Rajeev Lokegaonkar has worked and duly completed his Project Work for the degree of Bachelor of Management studies under the Faculty of Commerce in the subject of Project Report and his project is entitled, "A Study of consumer behavior towards social media marketing" under my supervision. I further certify that the entire work has been done by the learner under my guidance and that no part of it has been submitted previously for any Degree or Diploma of any University. It is his own work and facts reported by his personal findings and investigations.

Date of Submission: 21-03-2023

  
(Name & Signature of the Coordinator)  
Prof. Sarika Surve

  
(Name & Signature of the guiding teacher)  
Prof. Jayant Anant Naik

  
(Signature of External Examiner)



(Signature of Internal Examiner)

  
(Signature of PRINCIPAL)  
Hon. Dr. R.K. Patra



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e) Project of FYBCOM Economics



f) Department of Biotechnology: MSc Sem IV Project





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g) Project from Department of Chemistry





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## 2) Professional training certificates

Professional training for A.Y. 2018-19



Professional training for A.Y 2021-22





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**SHEETAL LABORATORIES**  
OCCUPATIONAL HEALTH CARE SERVICES  
AUTHORISED CERTIFYING SURGEON

Ms. SHEETAL BABAR  
Executive Director

Dr. UTTAM R. BABAR  
M.D.B.S., A.P.I.S.  
Specialist Physician

101, Shree Om Sadguru C.H.S. - Plot No. 122, Sector - New SO, Seawoods, Neral (W), New Mumbai-400 706.  
Mob : 9892181506 / 9820847879 • E-mail : sheetaluttam@gmail.com / uttambabar55@gmail.com

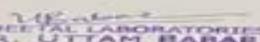
**INTERNSHIP CERTIFICATE**

This is to certify that Miss. Sayali Deepak Tatkare has successfully completed her Internship in Sheetal Laboratories, Seawoods From 5<sup>th</sup> May 2023 to 10<sup>th</sup> June 2023.

Her Internship duties familiarizing herself with Clinical Pathology, Biochemistry, Phlebotomy, Hematology and related fields. And her main focus was on Biochemistry.

During her period we found her performance to be good. She has demonstrated a positive attitude towards learning.

Yours Truly

  
SHEETAL LABORATORIES  
DR. UTTAM BABAR  
R.N. 42013, M.B.S., A.P.I.S.  
For Sheetal Laboratories



S4B-UOC MLT Roll No- 01

- PATHOLOGY
- X-RAY
- SONOGRAPHY
- DENTISTRY
- PHYSIOTHERAPY
- ECG
- STRESS-TEST
- 2D ECHO

Date: 29.11.2018

**EXPERIENCE LETTER**

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Kavita Achrekar has worked at our Pathology laboratory as a trainee technician for a period of 15 days from 13.11.2018 to 28.11.2018.

Ms. Kavita Achrekar is a very hard working and sincere lab technician. She has learnt and mastered basic technical skills in Hematology, Biochemistry and Clinical Pathology.

Wishing her good luck for her future endeavors.

  
DR. PANKTI HARIA  
MD, DNB (PATHOLOGY)

  
DR. SUNIL SASTE  
DIRECTOR



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### 3) Visits

#### a) Visit to Dnyandeep Cooperative credit Society(Political Science Department )

6.1\_POLITICALSCIENCE\_DA\_A.Y.2018-2019

#### DEPARTMENT OF POLITICAL SCIENCE

##### **Study Visit to Dnyandeep Co-operative Credit Society:**

Department of Political Science, organized a study tour to Dnyandeep Co-operative Bank on 23<sup>rd</sup> January, 2019 with an objective to provide an opportunity to the students to see the healthy practices of the prominent institutions outside the academic and other fields.

Indian banking system has undergone a number of remarkable changes during six decades of post-independence period. Though it is very difficult to present all the changes, an attempt is made herein under to present the important changes in Bank and Co-Operative Sector.



##### **Objectives of the Study Visit**

In the light of some of the problems of Co-operative Banks and also of their poor financial performance, the present study keeps the following as objectives.

- To study the working and growth of Co-operative credit society.
- To assess the Capital Adequacy, Reserves, Borrowings, Liabilities and level of Non-performing Assets of selected Co-operative Banks.
- To evaluate the efficiency and effectiveness of selected Co-operative Banks in mobilizing the deposits, lending advances, investments and recovery performance of selected banks,
- To assess the Operating Profit/Net Profit of these selected Co-operative Banks, and
- To suggest policy measures for improving the working of Co-operative Banks.



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The Co-operative banks have been established under Cooperative Societies Act of different states. The co-operative movement was started in 1949 with a view to provide financial assistance to agricultural sector. The co-operative movement in Maharashtra has played a significant role in the social and economic development of the state particularly in the rural areas. The Pravara Sugar Co-operative Factory Ltd., established in 1949, made a success. Agriculture is the leading activity of the rural area of the Maharashtra.



**Shri Vishwanath Govindrao Pawar**- Founder & Chairman brief about the History of Dnyandeep Co-operative Credit Society Ltd. is registered under Maharashtra Co-operative Society Act 1960, established on 2nd September 1978. To assist people in the society during their financial crisis, came forth with a resolution – Dnyandeep Co-operative Credit Society Ltd., which was founded with 300 members and now Rs. 13000 Share Capital. He also explain the expansion branches in various sectors of Mumbai. The institution is operational in 6 divisional offices that cover 91 branches and controlled by the Corporate Office at Mumbai. The organization is proud to possess an asset of exceptional trained staff with 620 employees and 825 self-employed personnel in the



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form of marketing representatives. To ensure up to the mark service, the institution imparts meticulous training to all its Members, Directors, employees and marketing representatives.



Dr. Vinay P Raut explained in his speech that “The Co-operative Banks have been performing well in mobilizing small rural savings and using the same, besides the funds mobilized from other sources, to finance the requirements of various growth sectors including agricultural sector”.



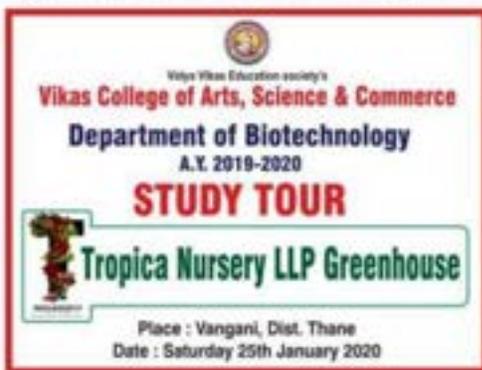
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**b) Visit to Tropica Nursery ( Biotechnology Department)**

**ACDEMIC YEAR 2019 -20**

**STUDY TOUR TO TROPICA NURSERY LLP, WANGAN, DIST. THANE**

Department of Biotechnology organized study tour to Tropica Nursery LLP, Wangani, Tal. Ambernath, Dist. Thane on 18<sup>th</sup> January 2020 & 25<sup>th</sup> 2020 for the students of classes F.Y.B.Sc. (Biotech), S.Y.B.Sc. (Biotech), T.Y.B.Sc. (Biotech), M.Sc. (Biotech) Part I and M.Sc. (Biotech) Part II. The Tropica Nursery is a specialist export oriented nursery with about 60 acres of irrigated land near village Wangani. Nursery currently grows a range of crops with *Adenium* and *Euphorbia* and is the world class growers of these plants.





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**c) Visit to N.D. Studio (Media Production Department)**

**“Industrial Visit to N.D. Studio Karjat”**

**18<sup>th</sup> October 2018**



Department of B.Voc Media Production organized students I.V. to N.D. Studios kartjat on 18<sup>th</sup> October 2018. Students got the first hand experience of Film Industry.



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**d) Visit to AMUL Dairy**

**A.Y. 2022-2023**

**INDUSTRIAL VISIT**

**I'm thrilled to share a brief recap of our recent Industrial Visit to AMUL Saturday, 17<sup>th</sup> February, 2023. The experience was incredibly insightful, offering our students a first-hand look into operations.**

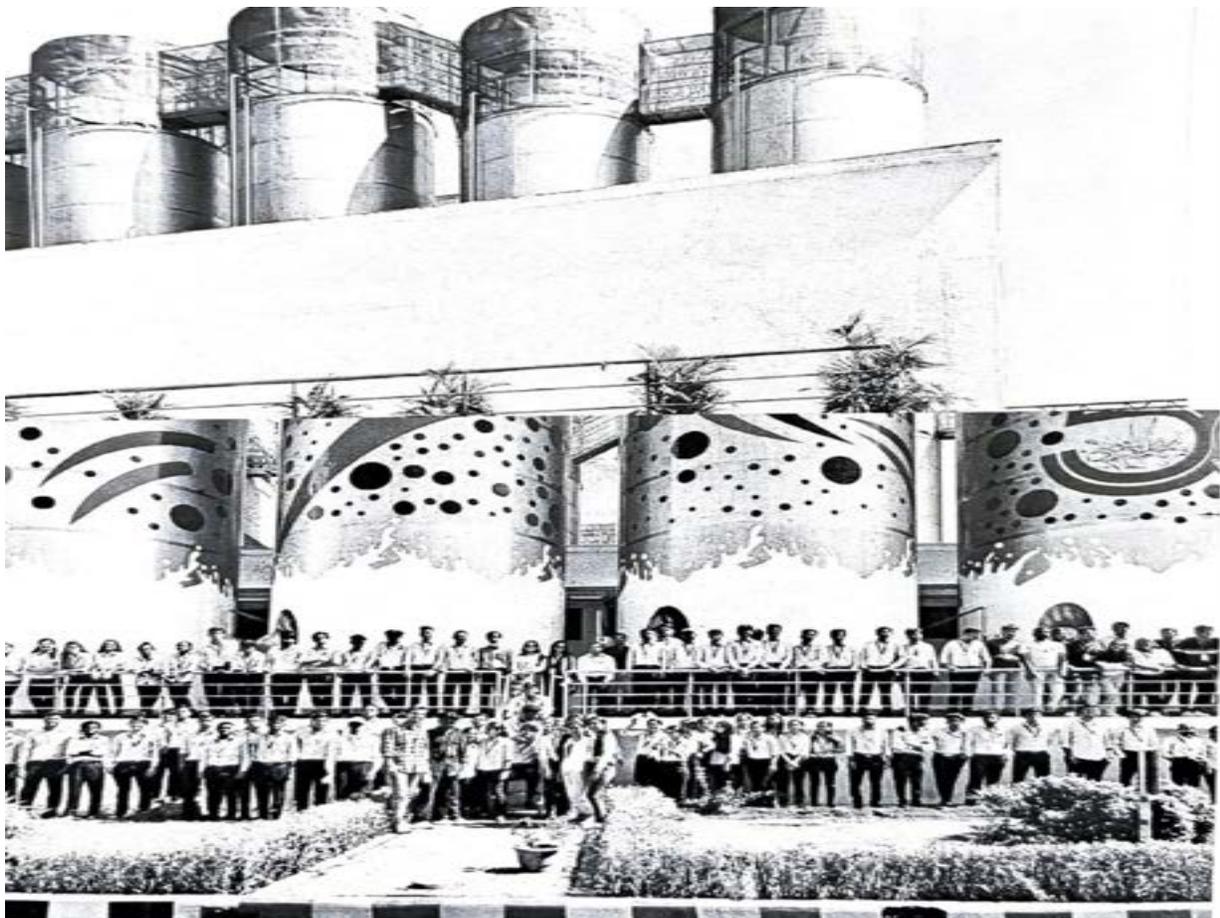
During the visit, students had the opportunity to:

- Witness manufacturing processes in action.
- Engage with industry professionals, gaining valuable career insights.
- Learn about safety protocols and quality control measures.

Overall, the visit was a resounding success, providing practical knowledge that will undoubtedly benefit our students in their academic and professional journeys.

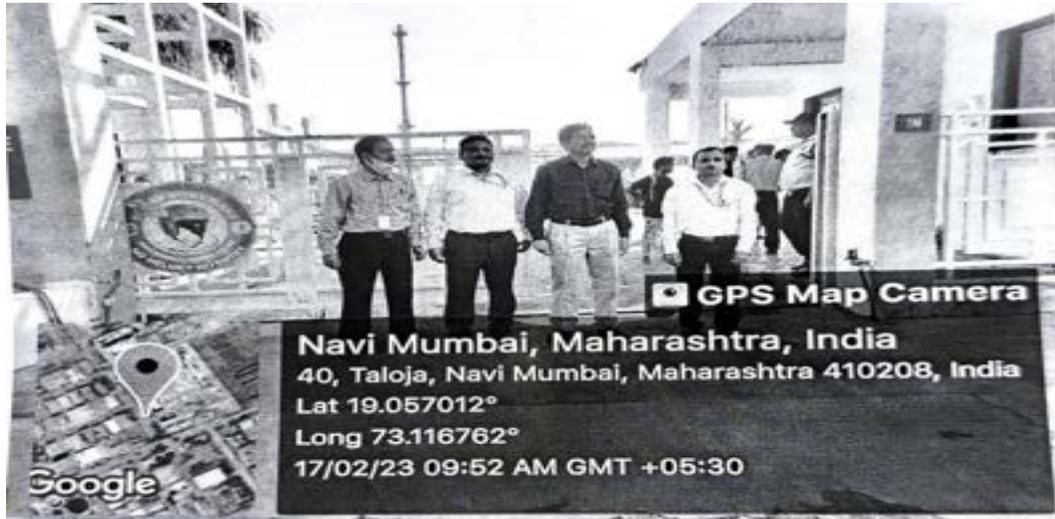


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### e) Visit to Parle Company

**A.Y. 2019-2020**

### **INDUSTRIAL VISIT**

**I'm thrilled to share a brief recap of our recent Industrial Visit to Parle Company, Saturday, 18<sup>th</sup> January, 2020. The experience was incredibly insightful, offering our students a first-hand look into operations.**

During the visit, students had the opportunity to:

Witness manufacturing processes in action.  
Engage with industry professionals, gaining valuable career insights.  
Learn about safety protocols and quality control measures.

Overall, the visit was a resounding success, providing practical knowledge that will undoubtedly benefit our students in their academic and professional journeys.





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**f) Visit to Soonabai Phirojsha Godrej Marine Ecology Centre (Botany Department)**

**Visit to "Soonabai pirojsha godrej marine ecology centre year" 2019-20.**

**Date:**

**Participants:**

- Mr. Hemant Karkhanis
- Dr. Geeta Nair
- Fybsc. Students

**Objective:**

In 1985, the Soonabai Pirojsha Godrej Foundation was set up to formalize the efforts of Godrej towards the conservation of the mangrove ecosystem of Vikhroli along the West bank of the Thane creek. This pioneering conservation initiative took roots way back in the 1940s...

Godrej acquired several hundred acres of land in 1948 for setting up an Industrial Garden Township for their business that was growing exponentially. This land comprised a large area of luxuriant mangroves along the eastern boundary skirting the Thane Creek. Considering the rich biodiversity of mangrove forests, Godrej took all efforts for protection right from the beginning. Realizing the importance of this usually neglected ecosystem, late Shri. Sohrabji P. Godrej and late Shri. Naoroji P. Godrej focused on conserving this vast ecologically sensitive area, striking a delicate balance between the industrial activities and nature conservation.

This is the first privately managed mangrove area in India and probably the first mangrove management project in the world to formally adopt ISO14001 standards for Environment Management System. This system has been amalgamated with the corporate environment policy of the parent company, Godrej & Boyce Mfg. Co. Ltd. and is looked at as a success story for the corporate environment.

Several short- and long term research projects have been undertaken including the biodiversity of Thane creek, vegetation mapping, satellite imagery studies, pollution of Thane creek etc. Researchers from various universities and organisations are encouraged to conduct research projects and surveys in Pirojshanagar mangroves. Regular mangrove plantation activities have been conducted since the project's inception. Studies reveal an 18% increase in vegetative cover due to conservation measures taken so far. This is an outstanding achievement since more than 50% of Mumbai's mangroves have been destroyed in the last 20 years.

The Mangrove Interpretation Centre (MIC) is situated in Udayachal Primary School, Vikhroli (total area = 475.3 square metres). The Centre is involved in educational activities such as nature trails, audio-visual shows and other activities related to the mangrove ecosystem. The objective of the MIC is to spread environmental awareness using mangroves as a platform. MIC has been largely responsible for promoting mangrove awareness in Mumbai and the State of Maharashtra.

**Photos of the Program.**





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**g) Visit to JJ Mahanagar Raktpedhi( BVOC MLT Department)**

**2. Visit to Sir JJ Mahanagar Raktpedhi, Parel.**

Date: 21<sup>st</sup> September 2019

Venue: Sir JJ Mahanagar Raktpedhi, Parel.

Attributes: Students were guided to equipment's used in the blood bank, various tests done after receiving blood, storage of Blood bags after grouping, monitoring the blood bags storage conditions.

Students- SYB VOC MLT – 34 Students

Staff : Asstn, Prof. Harshad Karle



Instruments and Equipment's used in Blood bank



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#### 4) Practicals Sessions

##### a) Laboratory Instruments -

##### i) Laboratory Instruments - Biotechnology Department

VIDYA VIKAS EDUCATION SOCIETY'S  
VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE

DEPARTMENT OF BIOTECHNOLOGY

INSTRUMENTS AT BIOTECHNOLOGY LABORATORIES

M.Sc. LABORATORY

		
GEL DOC SYSTEM	PCR MACHINE	INCUBATOR SHAKER
		
DEEP FREEZER	CO <sub>2</sub> INCUBATOR	LAMINAR AIRFLOW VERTICAL



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**M.Sc. LABORATORY**

		
<b>REFRIGERATOR</b>	<b>AUTOCLAVE 4</b>	<b>AUTOCLAVE 5</b>
		
<b>UV SPECTROPHOTOMETER</b>	<b>ULTRASONIC BATH SONICATOR</b>	<b>UV TRANSILUMINATOR</b>



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M.Sc. LABORATORY



**MAGNETIC STIRRER - 1 & 2 AND CYCLOMIXER**



**ELECTRONIC BALANCE**



**COOLING CENTRIFUGE**



**CELL COUNTER**



**ELECTROPHORESIS POWER PACKS**



**ELECTROPHORESIS UNIT ASSEMBLY**





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**B.Sc. LABORATORY**

		
<b>pH METER -cum - CONDUCTIVITY METER</b>	<b>HOT AIR OVEN -1</b>	<b>HOT AIR OVEN -2</b>
		
<b>INCUBATOR</b>	<b>WATER DISTILLATION UNIT</b>	<b>AUTOCLAVE 1</b>



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B.Sc. LABORATORY

		
<b>AUTOCLAVE 2</b>	<b>AUTOCLAVE 3</b>	<b>BOD INCUBATOR</b>
		
<b>REFRIGERATOR 2</b>	<b>COLORIMETERS - 1 &amp; 2</b>	<b>ELECTRONIC WEIGHING BALANCE</b>

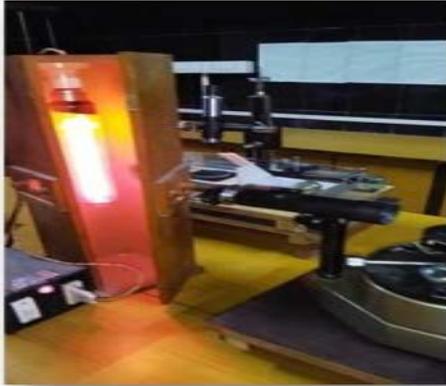


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ii) Instruments of Department of Physics

List/Photographs of Instruments

1. Newton's Rings



2. Spectrometer (Angle of prism)



3. LCR Series Resonance



6. Study of N and / Nor Gates



7. Lens Combination





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4. Spectrometer (Refractive Index)



5. C.R Circuit to determine index



**Laboratory**



1. Dark Room

2. Experiment Room





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iii) Laboratory Instruments - Chemistry Department

**Vidya Vikas Education Society's  
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Department of Chemistry  
List of Instrument in B.sc**

Date: 02/10/2023

Sr. No.	Instrument Name	Quantity	Instrument No.
	<b>B.Sc. Lab</b>		
1	Colorimeter	04	Vikas/B.Sc/Chem/Colorimeter/01,02,03,04
2	Conductivity meter	06	Vikas/B.Sc/Chem/Conductometer/01,02,03,04,05,06
3	Potentiometer	04	Vikas/B.Sc/Chem/Potentiometer/01,02,03,04
4	pH meter	06	Vikas/B.Sc/Chem/PH meter/01,02,03,04,05,06
5	Heating oven	01	Vikas/B.Sc/Chem/Heat.oven/ 01
6	Suction pump	01	Vikas/B.Sc/Chem/Suction pump/01
7	Centrifuge machine	03	Vikas/B.Sc/Chem/Centrifuge machine/03
8	Weighing balance	01	Vikas/B.Sc/Chem/weighing balance/01
9	Thermostat/Thermowaterbath	01	Vikas/B.Sc/Chem/Thermowaterbath/01
10	Distillation plant	01	Vikas/B.Sc/Chem/Dist plant/ 01
			Total: 28



PH meter 01.



PH meter 02



PH Meter 03.



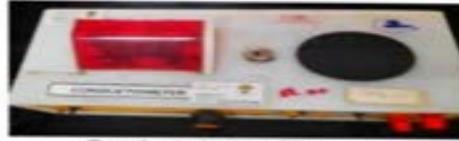
PH Meter 04.



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Conductometer 01.



Conductometer 02



Conductometer 03.



Conductometer 04



Colorimetry 01.



Colorimetry 02



Colorimetry 03.



Colorimetry 04



Weighing balance.



Suction Pump



Distilled plant



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**b) Computer Laboratory of IT and CS Department**

C



computer Lab-1

Computer Lab 2



Computer Lab 3





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c) Practical Journal, Journal Certificate Page, Journal Index Page and Attendance records

Index of journals

F.Y. Bsc

INDEX					
PARTICULARS OF THE EXPERIMENTS PERFORMED					
Sl. No.	Name of Experiment	Page No.	Date of Experiment	Date of Submission	Remarks
1.	LENS CONSTRUCTION	1	21/10/20		
2.	REFRACTION OF LIGHT	4	21/10/20		
3.	FLAT SPINAL SPECTRUM	7	21/10/20		
4.	SPECTROMETER (REFRACTIVE INDEX)	10	21/10/20		
5.	THERMISTOR CHARACTERISTICS	13	10/10/20		
6.	THERMAL OSCILLATION	15	21/10/20		
7.	SPECTROMETER (ANGLE OF PRISM)	17	21/10/20		

S.Y. B.sc

Sl. No.	Name of Experiment	Page No.	Date of Experiment	Date of Submission	Remarks
1.	Thin film interference	1	21/10/20		
2.	Newton's experiment of thin film	3	21/10/20		
3.	Thin film interference	4	21/10/20		
4.	Change in refractive index of a liquid	11	21/10/20		
5.	Change in refractive index of a liquid with different settings	12	21/10/20		
6.	Dispersion of white light	13	21/10/20		
7.	Dispersion of white light	14	21/10/20		
8.	Dispersion of white light	15	21/10/20		
9.	Dispersion of white light	16	21/10/20		
10.	Dispersion of white light	17	21/10/20		
11.	Dispersion of white light	18	21/10/20		
12.	Dispersion of white light	19	21/10/20		
13.	Dispersion of white light	20	21/10/20		
14.	Dispersion of white light	21	21/10/20		
15.	Dispersion of white light	22	21/10/20		
16.	Dispersion of white light	23	21/10/20		
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4.	Young's modulus by Kater's method	4	21/10/20		
5.	Law's Method	5	21/10/20		
6.	Adams's Law	6	21/10/20		
7.	LCR parallel resonance	7	21/10/20		
8.	Characteristics of an RC network and self-resonant frequency	8	21/10/20		
9.	Wheatstone's network	9	21/10/20		





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**SEMESTER - VI**

EXAM No. \_\_\_\_\_

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 Kankasar Nagar-2, Vikhroli (E), Mumbai-400 083.

**CHEMISTRY - DEPARTMENT**

Class : B.Sc. (Gen.) Roll No. 12-233

Term	Signature of In-charge	Date
First		
Second	<i>[Signature]</i>	<u>22/02/19</u>

**CERTIFICATE**

Certified that the experimental work as entered in this journal is as per Syllabus in Chemistry for B.Sc. Class prescribed by University of Mumbai and was done in the Chemistry Laboratory of Vikas College of Arts, Science & Commerce by student.

Shri/Ms. Prathibha Ranesh Kadam  
 of Class B.Sc. (Gen.) during the academic year 2018-2019  
 No. of Experiments completed 5 out of 5

<p style="text-align: center;"><b>EXAMINED</b></p> <p>Signature of In-charge          Date : <u>22/02/19</u></p> <p>Signature of Examiner          Date : <u>22/02/19</u></p>	<p style="text-align: center;"><b>Head of the Chemistry Department</b></p> <p><i>[Signature]</i>          Date : <u>23/02/19</u></p>
---	--

Non-Instrumental Experiments				
1.	01.12.2018	Estimation of magnesium & zinc	23 20 25	<i>[Signature]</i>
2.	8.12.2018	Estimation of reducing sugar glucose in honey	26 25 23	<i>[Signature]</i>
Instrumental Experiment				
3.	5.01.2019	Estimation of Cr(VI) using diphenylcarbazide	30 20 31	<i>[Signature]</i>
4.	20.01.2019	Potentiometry	32 31 37	<i>[Signature]</i>
5.	20.01.2019	pH - metry	36 20 40	<i>[Signature]</i>
			<i>[Signature]</i> 25/02/19	

Journal- Department of Chemistry



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Kannamwarnagar-2, Vikhroli (E), Mumbai-400083  
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Class: T.Y BSC College Roll No 213322  
Semester: VI Exam Seat No. —

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It is Certified that the experimental work as entered in this journal is as per the syllabus in Chemistry for T.Y.B.Sc. class prescribed by University of Mumbai and was studied at the Department of Chemistry of Vikas College of Arts, Science & Commerce by the bonafide student Mr./Ms. Ankita Sahani of class T.Y B.Sc. in the subject of Chemistry during the academic year 2021-22. No. of experiments completed 5 out of 5.

*Shree*  
In-Charge  
Date: 5/4/2022

*Shree*  
Head of Chemistry Department  
Date: 05/04/22

*Shree*  
Examiner  
Date of examination: 3/4/2022

**PARTICULARS OF THE EXPERIMENTS PERFORMED**

Expt. No.	Name of Experiment	Page No.	Date of Experiment	Date of Submission	Remarks
1	TO estimate the amount of Fe (II) present in the given solution by using salicylic acid colorometric titration.	1	21/01/22	3d3/22	<i>Shree</i>
2	Determination of HCl and CH <sub>3</sub> COOH in a mixture by conductometric titration using NaOH	6	4/01/22		<i>Shree</i>
3	To determine the number of electrons in the redox reaction between ferrous ammonium sulphate and ceric ammonium sulphate potentiometrically	14	11/01/22		<i>Shree</i>
	Instrumental Experiment- TO determine the amount of Iodine, chlorine, bromine in the mixture by potentiometric titration	18	25/01/22		<i>Shree</i>



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Sl. No.	Name of Experiment	Page No.	Date of Experiment	Date of Submission	Remarks
	To determine the energy of activation of acid catalyzed hydrolytic reaction of methyl acetate	26	28/09/22	30/9/22	Pass
	To determine molecular weight of high polyvinyl alcohol by viscosity measurement.	27			Pass

Department of Biotechnology

M.Sc. (Biotechnology) (Part II) Semester II, 2022-23  
Roll Number: 221601 Exam Seat Number: \_\_\_\_\_

UNIVERSITY OF MUMBAI  
VIDYA VIKAS EDUCATION SOCIETY'S  
VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE  
DEPARTMENT OF BIOTECHNOLOGY

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Certified that the experimental work as entered in this journal is as per the syllabus in the subject of Biotechnology prescribed by the University of Mumbai for the Semester II of the class M.Sc. (Biotechnology) (Part II) was conducted in the Laboratory of Department of Biotechnology of Vikas College of Arts, Science & Commerce by the bona-fide student Mr./Ms. Shubita Rishabh Thakur of class M.Sc. (Biotechnology) during the academic year 2022-2023.

Number of experiments completed \_\_\_\_\_ out of \_\_\_\_\_

[Signature] [Signature]  
TEACHERS TEACHER SUPERVISOR

HEAD OF DEPARTMENT

**CERTIFIED** Date: 28/07/23 **EXAMINED** Date: 28/07/23

Examiner (Sign): [Signature] Examiner (Sign): [Signature]



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**INDEX (SEMESTER II)**  
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8	Use of various primer designing and restriction site prediction tools.	41	29/6/23	SP
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11	Measure of dispersion: Standard value for the mean and proportion. Confidence limits for the mean and proportion.	76	01/7/23	SP
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 Vikas High School Road, Sector-10, Phase-2, Mulund East, Mumbai-400034

Department of B.Voc. S.E.E.T.

**CERTIFICATE**

This is to certify that Mr. Mr. Sacha Subhash Phad  
 with Seat No. 221214392 of B.Voc. S.E.E.T. Degree Semester VI, has satisfactorily completed the  
 practical course as prescribed by the University of Mumbai during the Academic year 2022-23

Signature of Teacher: \_\_\_\_\_  
 Signature of H.O.D.: \_\_\_\_\_

Signature of Examiner: \_\_\_\_\_  
**CERTIFIED**  
 Date 24 APR 2023

College Stamp/ Seal  
**EXAMINED**  
 Date 09 MAY 2023

**UNIVERSITY OF MUMBAI**  
**F.Y.B.voc.MLT ( SEMESTER II )**  
**PAPER 2**  
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### 5) BVOC Media Lab Photos and Studio



ICT Tool for Media





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ICT Tool for Media ( Media Soft ware)

Software for Media

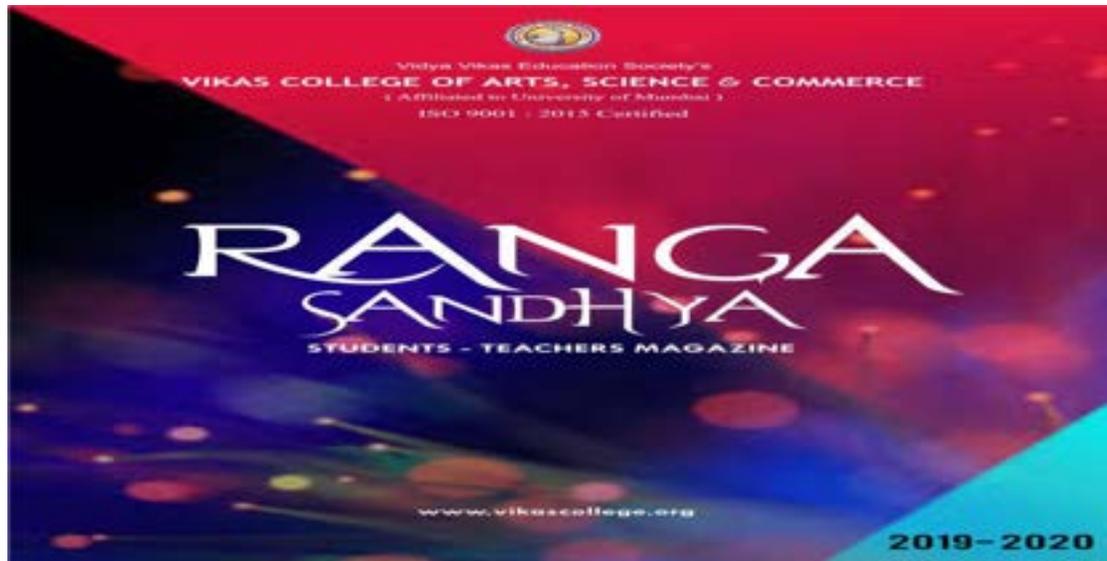




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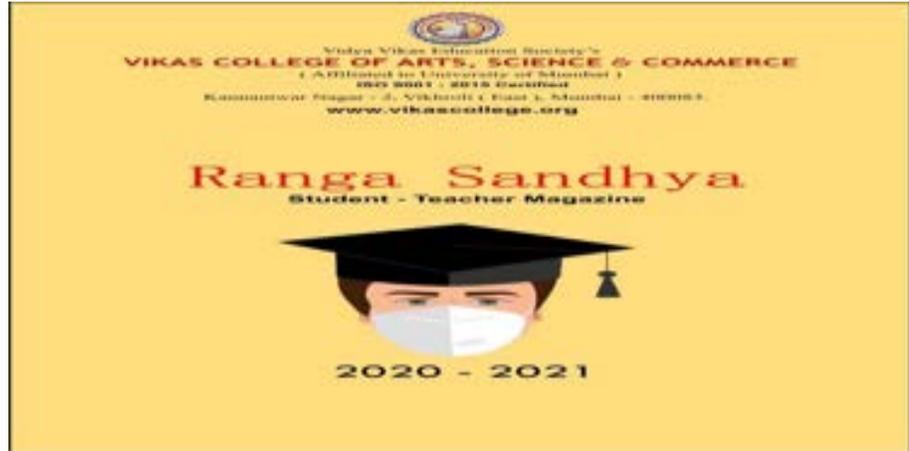
## 6) Magazines

### a) Rangasandhya





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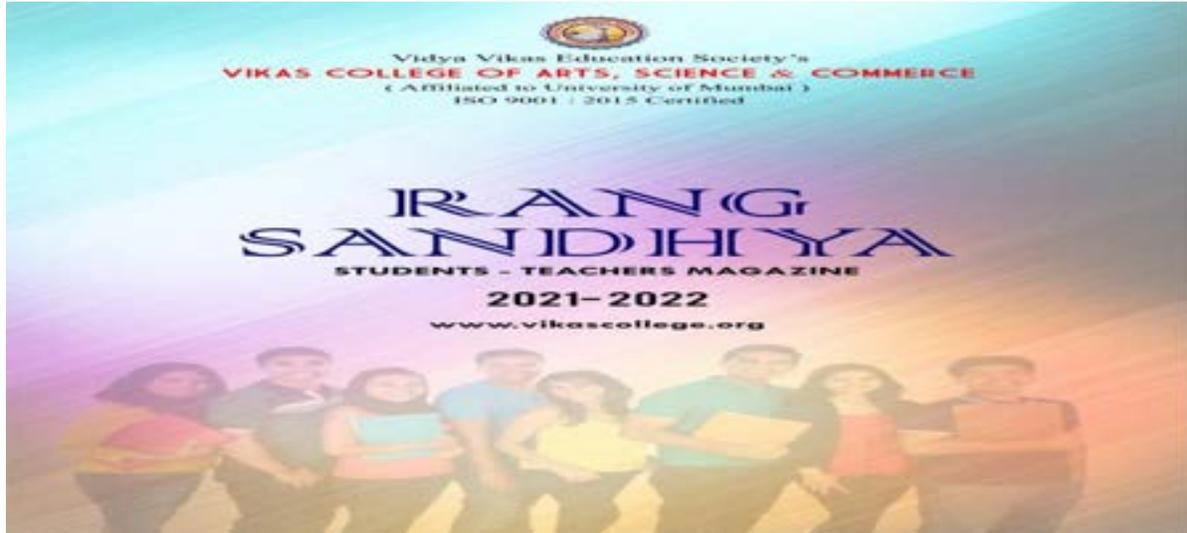
Editorial for the year 2020-21





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Cover Page for the year 2021-22



Editorial for A.Y. 2021-22



*Editorial Message*

Dear Students,

"Learning is a continuous process from the minute we are born, until we die." Vikas College provides a platform for every student to develop his learning skills through magazine. As you scan through the pages, it will enlighten you with the important milestones that College has achieved this year. Besides, our budding talents have expressed their thoughts, ideas, hopes, feelings, aspirations and convictions in a creative way. The Faculty members are sent to seminars, workshops to improve the skills required. This magazine should be a good source of guidance for faculty and coming batches of students in choosing activities of their choice in their future for building their career. I congratulate Teaching and Non Teaching staff, rd and students for bringing this edition of Magazine 2021 -2022. Wish you all the best.

**Happy Reading !!!!**

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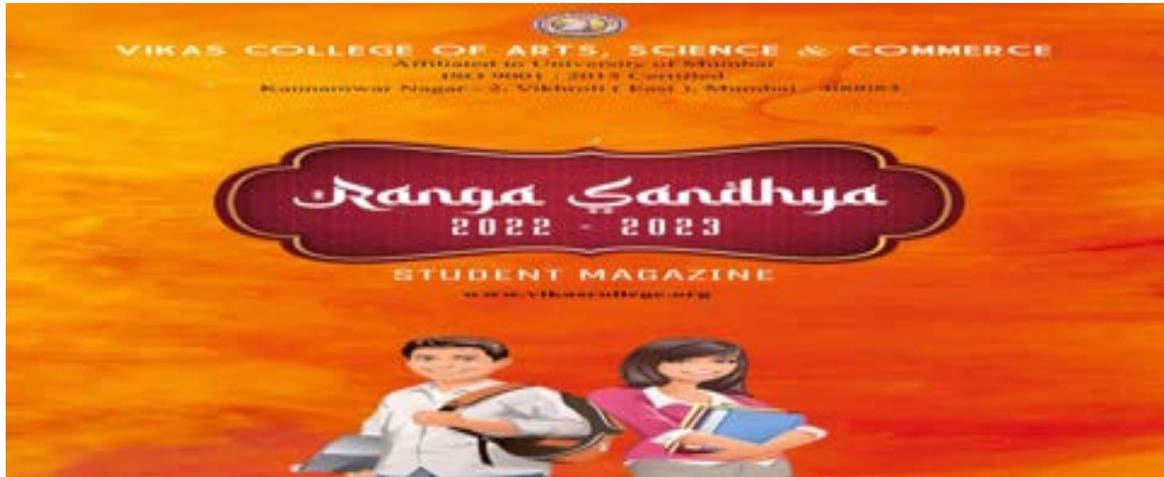
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Editorial A.Y 2022-23





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b) Wall Paper Magazine – Havi havi shi Hak

## Wall Paper Magazine

"HaviHavishi Haak," हवी-हवीशी हाक a wall-paper magazine that the Vikas Central Library publishes in collaboration with departments. It is released on special occasions or the birth anniversaries of well-known laureates. Generally students from college write some material in hand written or printed form in English, Hindi or Marathi and published at young age in Bhittipatrak! It also published a poems, articles etc. This practice serves as a platform for youngsters to showcase their creativity and literary skills.

**2018-2019**



This issue of wall paper magazine was released on occasion of "Reading Inspiration Day" on 10<sup>th</sup> October, 2018 in memory of Dr. A.P.J. Abdul Kalam. Editorial board is as follows:

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A special issue of wall paper magazine was released on occasion of "Marathi Bhasha Gaurav Din" on 27<sup>th</sup> February, 2019 in memory of Vishnu Vaman Shirwadkar (Kusumagraj). Editorial board is as follows:

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On the occasion of Reading Inspiration Day, to memorize Father of Green Revolution in India, great scientist late M. S. Swaminathan, pass away on 28<sup>th</sup> September 2023 and to share the success story of Chandrayaan - 3 mission of ISRO, Vikas College Library, Department of Biotechnology and Marathi Vangmay Mandal jointly published special issue of wall magazine "Havi Havishi Haak". Hon'ble Vice Principal Prof. Shaji Mathew unveiled the magazine at the lobby of Library. The displayed magazine consists of articles on the contribution of Dr. A. P. J. Abdul Kalam and Dr. M. S. Swaminathan in their respective fields to serve the nation and great achievement of Chandrayaan -3 landing on moon which is nicely depicted with the important information.



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**c) News and Views – Biotechnology Department**

**BIOTECHNOLOGY DEPARTMENT**  
*News & Views*



Biotech Wall Magazine

Biotech - News & Views  
(August 2020)

Students list of Editorial Team

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3. Mr. Ankit Singh [M. Sc. (Part I)]
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9. Ms. Akanksha Chavan [S.Y.B.Sc.]
10. Mr. Mayur Ahire [S.Y.B.Sc.]
11. Mr. Nikhil Pawar [F.Y.B.Sc.]
12. Mr. Jatin Parab [F.Y.B.Sc.]



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**7) Business proposal plan- Biotechnology Department**

Name: **Princi Prithviraj Jaiswar.**

Roll no: **212237.**

Standard: **S.Y. Biotechnology.**

Subject: **Entrepreneurship.**

USBT: **407**

Topic Name: **Bioresearch and diagnostic services.**

Company name: **BRDs PLC**



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1.2	Management of Bioresearch and diagnostics.
1.3	Customers of Bioresearch and diagnostics.
2	<b><u>Company Summary</u></b>
	2.1 Company Owner
	2.2 Why the Bioresearch and diagnostics is being started
	2.3 How this business will be started
	2.4 CAPITAL
3	<b><u>Products</u></b>
4	<b><u>Our Mission and Vision Statement</u></b>
5	<b><u>Marketing Analysis of bioresearch and diagnostics Business.</u></b>
6	<b><u>Our Target Market and Marketing Segmentation</u></b>
7	<b><u>Competitive Analysis</u></b>
8	<b><u>Sales Strategy</u></b>
9	<b><u>Job Roles and Responsibilities</u></b> <b><u>Chief Executive Officer – CEO (Owner)</u></b> <b><u>Production / Plan Manager</u></b> <b><u>Sales and Marketing Manager</u></b> <b><u>Accountant / Cashier</u></b> <b><u>Client Service Executive</u></b> <b><u>Production Workers / Machine Operators</u></b> <b><u>Distribution Process</u></b>
10	<b><u>SWOT Analysis.</u></b> <b><u>Strength:</u></b> <b><u>Weakness:</u></b> <b><u>Opportunities</u></b> <b><u>Threat</u></b>
11	<b><u>Our Pricing Strategy</u></b> <b><u>Payment Options</u></b>
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NAME: DHANASHRI BALKRISHNA CHOUGHULE  
STANDARD: S.V.BIOTECH  
ROLL NO: 212203  
SUBJECT: ENTREPRENEURSHIP DEVELOPMENT  
TOPIC: BUSINESS PLAN PROPOSAL PROJECT  
NAME OF THE PRODUCT: OVERALL HEALTH MONITORING SYSTEM  
NAME OF THE COMPANY: BLOSSOM HEALTH  
PROFESSOR IN- CHARGE: Prof. YOGESH SALVI  
NAME OF COLLEGE: VIKAS COLLEGE OF ARTS, SCIENCE AND COMMERCE

**CONTENTS:**

- Executive summary
- Company description
- The product
- Market
- Competition
- Marketing and sales
- Core team
- Organization structure
- Risks and mitigation
- Financials



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**8) Presentations by the students**

**a) Presentations by BAF Department**

**DEPARTMENT OF BAF**

Departmental Activities include PowerPoint presentation, interactive sessions. PowerPoint presentations play a crucial role in enhancing learning outcomes and promoting academic success for students across various disciplines.





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**b) Presentations by Chemistry Department**

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DEPARTMENT: Chemistry  
(2019-2020)

Organized post graduate students "Research meet" on 20/7/2019 for undergraduate and postgraduate students

Guest: Dr. Arun Kadu (University of Mumbai) Dr. Shilpa Patil (University of Mumbai)

**PG Research meet:**





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## 10) Interactive sessions for Students and their participation in Webinars and Seminars

### a) Seminar on -Career options after graduation

#### 1. Seminar on "Career options after graduation"

Date: 08/02/2023

Time: 2pm to 4 pm

Venue: Seminar hall 1<sup>st</sup> floor

Resources person: Dr. Milind Vinod

Profile : FCA|CPA|MFT|MBA|FINANCE|FHEA|B.CPM|LLB(Gen)|ICWA(inter)  
SIBM Asst.Professor Adjunct SP Jain ex Heriot Watt University

Participants: T.Y.BMS students

#### ➤ Agenda of Seminar

- a) Career after Graduation
- b) How to decide the right career options for Management graduates
- c) Go for an internship
- d) How to crack CET

#### ➤ Out-Comes of Seminar

Third year management students gain knowledge on:

Career Counselling helps them understand the career options that they have, and how to pursue them. Career Counselling helps them understand their own strengths and weaknesses with regard to their present course or profession, and lets them know what career they would be suited for.

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Vikhroli (E), Mumbai  
ISO 9001:2015 certified Institution  
**DEPARTMENT OF MANAGEMENT STUDIES**  
ORGANISE  
**Seminar on**  
**"Career Options after Graduation & Cracking CET"**  
CAREER options  
**RESOURCE PERSON**  
**Dr. Milind Vinod**  
SIBM Asst. Professor  
Adjunct SP Jain  
ex Heriot Watt University  
WEDNESDAY, 8TH FEBRUARY, 2023 AT 2:30 PM  
DR. R. K. PATRA  
Principal  
DR. VINAY P. RAUT  
Secretary, V.V.E.S.



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 Vikas College of Arts, Science & Commerce

T.Y.B.M.S. "Seminar on How to Crack Common Entrance Test" 8 February-2023 By Prof. Shyamakant Surve

Roll No	Name	Sign
223582	Saleshi Shidu Pakhore	Saleshi
223575	Saloni Santosh Khair	Saloni
223530	Shruti Falguni Talwar	Shruti
223529	Divya Divyansh Patil	Divya
223574	MIYURI AJIT JADHAV	Miyuri
223586	Siddhi Sunil Pimple	Siddhi
223569	Rashmi Santosh Gangale	Rashmi
223568	Deepesh Mahendra Gaikwad	Deepesh
223573	Jayal Mohd Shafiqe Mushtaq	Jayal
223587	Katrina Prampal Gangurde	Katrina
223591	Faizan Tajal Shaikh	Faizan
223594	Prathmesh Mohideb Kamble	Prathmesh
223510	SHANTANI PRAKASH KODAM	Shantani
223529	HOORLE KARI'S SHAIKH	Hoorele
223552	Iqbaan Sultan Shaikh	Iqbaan
223595	Gayawan S. Yadav	Gayawan
223593	Pooja P. Pakkar	Pooja
223587	Safal Rajesh Salve	Safal
223581	Sakshi Vinod Nemane	Sakshi
223561	Ankita Ashokan	Ankita
223565	Priyalekha Krishnappa Chetty	Priyalekha
223615	Kritanvi Yashwantrao Joshi	Kritanvi
223578	Rhauika Vilhnu Lakde	Rhauika
223567	Rakhi Santosh Favadre	Rakhi
223572	Priya Umakant Gupta	Priya
223524	Sabika P. Rane	Sabika
223517	Aarshi Dadasaheb Lahare	Aarshi
223585	Pranali Abhi Pawar	Pranali
223592	Branika Raju Jagtap	Branika
223584	Mahesh Akram Patel	Mahesh
223590	Snehal Prakash Wagh	Snehal
223576	Huda Rahim Khan	Huda
223509	Yogita Gopalkrishanath Jadhav	Yogita
223521	Rohit Dilip Pakhore	Rohit
223595	Tanisha Mukund Wankhede	Tanisha
223518	Nikhil Sunil Mane	Nikhil
223507	Suyat Anand Gaud	Suyat
223580	Sakshi Prakash mane	Sakshi
223619	Neha Rajendra Jaiswal	Neha
223565	Harsh Milind Badle	Harsh
223624	Raj Rajeev Lokgankar	Raj
223643	Disha Karunesa Tripathi	Disha
223519	Smruti Ram Marade	Smruti
223573	Sameer Ishiyaque Qureshi	Sameer
223510	Bhisham Gautam Chadge	Bhisham
223642	Balk Sanjay Chhadge	Balk
223620	Chetan Mahendra Elmhilp	Chetan
223634	Anuresh Anay Sutar	Anuresh
223504	Aniket Jabardast Ganak	Aniket
223562	Vaibhav Shankar Atmadkar	Vaibhav
223631	SUDEEP SHAILENDRA PATSHAR	SUDEEP
223533	Anvi-Sudhita Tiwari	Anvi
223527	Pankaj Kumar Kal	Pankaj
223623	A. Ksh. E. J. Shelar	A. Ksh. E. J.
223621	Sitesh Anandhakar Kumbhakar	Sitesh
223511	Shulthan Kishor Kadam	Shulthan
223507	Sumedh Divakar Acharya	Sumedh
223625	Krishna Nityanand Tripathi	Krishna



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## b) Guidance lecture on Abstract reasoning

**Report on "Guidance Lecture on "Abstract Reasoning" by Prof. Shymkant Surve dated 14/02/2023.**



People who have strong abstract reasoning tend to be better at learning new skills adapting and adjusting their approaches, seeing the big picture and thinking strategically. It is also one of the cognitive abilities that has been consistently linked to better work performance and leadership effectiveness and abstract reasoning help students to crack various entrance exam.

Knowing the importance of Abstract reasoning Vikas College with collaboration with Sihagad Institute arrange special guidance lecture on "Abstract Reasoning" The Resources person for the seminar was Prof. Shymkant Surve .Seminar were attend by all faculty of BMS Dept and third year Bms studens(no of students 64).

**Profile of Resource Person Prof. Shymkant Surve .**

**Asst Professor (Marketing)|B.Sc (Mumbai) ,M.M.M(Mumbai), D.P.R(RPICM Mumbai**



### ➤ Agenda of Seminar

- To make students develop the ability to quickly reason with information to solve new , unfamiliar problems.
- Independent of any prior knowledge
- It includes lateral and flexible thinking, logical reasoning Generating solutions beyond the most obvious.

Seminar started exactly at 4 PM. Welcome speech were given by Coordinator of BMS Dept, Prof Sarika Surve and session was handover to resource person Prof. Shymkant Surve .Sir explain students about

Information on abstract reasoning skills, which help you to solve new, unfamiliar problems, seeing the big picture and thinking strategically. It is also one of the cognitive abilities that has been consistently linked to better work performance and leadership effectiveness and abstract reasoning help students to crack various entrance exam.

➤ Agenda of Seminar

➤ To make students develop the ability to quickly reason with information to solve new, unfamiliar problems.

➤ Independent of any prior knowledge

➤ It includes lateral and flexible thinking, logical reasoning Generating solutions beyond the most obvious.

The seminar started exactly at 4 PM. Welcome speech were given by Coordinator of BMS Dept, Prof Sarika Surve and session was handover to resource person Prof. Shymkant Surve .Sir explain students about



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**Approval Letter for on "Guidance Lecture on "Abstract Reasoning " by Prof. Shymkant Surve dated 14/02/2023.**

Date : - 10th February, 2023

To,  
Principal,  
Vikas College of Arts, Science & Commerce,  
Vikroli( E) - 400083

Subject: - A Kind permission for conducting A Guidance Lecture on "Abstract Reasoning "

Respected Sir,

I am writing this letter with reference to our personal conversation in the meeting dated 7/02/2023 about arranging special guidance lecture the time required for this guidance lecture is approx. 2hrs ( 4pm to 6pm). The **Guest Speaker** will be Prof. Shymkant Surve he is Asst Professor(Marketing), completed his graduation in science B.Sc(Mumbai). We required your support and positive response from your .

Topic: - **"Abstract Reasoning "**  
Date & Time: - 14-02-2023 at 4pm  
Resource Person - Prof. Shymkant Surve  
Beneficiary Students - Students of TYBMS & TYBAF  
Profile details of resource person is attached

Thanking you in advance.

Yours Sincerely  
Sarika Surve

**Banner on "Guidance Lecture on "Abstract Reasoning " by Prof. Shymkant Surve dated 14/02/2023.**



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**DEPARTMENT OF MANAGEMENT STUDIES**  
ORGANISE

Seminar on  
**"Guidance Lecture on "Abstract Reasoning "**

**RESOURCE PERSON**  
Prof. Shymkant Surve  
Asst Professor (Marketing) | B.Sc (Mumbai) ,M.M.M(Mumbai), D.P.R(RPICM Mumbai)

TUESDAY, 14<sup>th</sup> FEB, 2023 AT 4.00 pm

DR. R.K. PATRA  
Principal

DR. VINAY P. RAUT  
Secretary - V.V.E.S.



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**Photos on "Guidance Lecture on "Abstract Reasoning " by Prof. Shymkant Surve dated 14/02/2023.**





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**Attendance for "Guidance Lecture on "Abstract Reasoning " by Prof. Shymkant Surve dated  
 14/02/2023.**

Vidya Vikas Education Society's  
 Vikas College of Arts, Science & Commerce  
 T.Y.B.M.S. "Seminar on Project Evaluation Technique" 14 February by Dr. Milind Vinod

223572	Sakshi Anshu Babhane	Present
223573	Saloni Santosh Phare	Present
223574	Charish Polaswar Talwar	Present
223575	Divya Divyanshu Phansav	Present
223576	Divya Divyanshu Phansav	Present
223577	Madhi Sauri Simple	Present
223578	Shubani Santosh Gangale	Present
223579	Deepak Mahendra Gokhad	Present
223580	Aradhya Mahesh Chafare Mule	Present
223581	Kashvi Pranshu Bhangale	Present
223582	Pratik Rajat Jadhav	Present
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223700	Pratik Rajat Jadhav	Present



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### c) Seminar on Growth Mantra to become successful Entrepreneur

#### **Report on Seminar on "Growth Mantra to become successful entrepreneur"**

Being an entrepreneur requires taking on significant responsibility and comes with significant challenges and potential rewards understanding its importance for management students, Bachelors of Management Studies of Vikas College, has arranged a one day Seminar on "Growth Mantra to become Successful Entrepreneur" held in the college seminar hall on 15<sup>th</sup> March 2019.

The Resources person for the seminar was Dr. Amit Rane.



**Profile of Resource Person :** He is awarded Ph.D. in management, MMM, and is a diploma holder in office automation from C-DAC. He has been working for last 12 years as visiting faculty for management programs, affiliated to reputed universities. He's also a successful Entrepreneur and authorized channel partner of Godrej Interio & Godrej Security Solution companies.

Attendee : S.Y.BMS and T.Y.BMS students (Total No of Students = 67) , All faculties of BMS Department , Vice Principal S.Mathew.

#### ➤ Agenda of Seminar

- To provide knowledge about the startup business and how they become a very successful within a short period of time.
- For any successful business the basic requirement of consistency, dedication, passion and knowledge.
- How to become a successful Entrepreneur
- How to face competition from the existing successful Entrepreneurs.

Seminar started exactly at 2:30pm – 5:00pm. Welcome speech were given by Coordinator of BMS Dept, Prof Sarika Surve and session was handover to resource person Dr.Amit Rane. As per agenda of Seminar Dr.Amit Rane then spoke to the students telling them of the importance of setting up personal goals in life and how it helps make their vision for the future clearer. Sir, were enthusiastic to create awareness amongst the students about career option available to them after completing their bachelor degree. He also spoke about the career option as an entrepreneur. Further on growth mantra Dr. Rane said, it is easy to create a company and it is easy to prosper as well, but the real challenge lies in sustaining a company, which is also the underlying factor that decided whether you are successful or not. He discussed about the four pointers by Gundeve Sri Sri Ravi Shankar i.e.

- Develop your intuitive abilities
- Focus on innovation
- Create a sense of belongingness among co-workers
- Believe in yourself

Overall the programme helped the students to have a better understanding of the opportunities that could be offered by Apprenticeship, Entrepreneurship and Higher education. Various questions were asked by students which were very effectively answered by resource person. The entire session was very interactive.

#### ➤ Out-Comes of Seminar

Seminar helps students understand the entrepreneurship career options that they have, and how to pursue it. The Seminar helps students to develop entrepreneurial abilities by providing background information about support systems, skill sets, financial and risk management. So that future budding entrepreneurs can make right decisions for starting and running a venture. It provided an indepth knowledge on how to become a successful entrepreneur.



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Prof Sarika Surve Coordinator of BMS Dept, delivered the vote of thanks which marked the end of the formal session.

**Approval Letter**

Date : 14<sup>th</sup> March, 2019

To,  
 Principal,  
 Vikas college of Arts, Science and commerce,  
 Vikhroli (e)-400 083

Subject: Request for your kind approval for conducting seminar on **Growth mantra to become successful entrepreneur.**

Respected Sir,

I am writing this letter on the behalf of BMS dept. of our college to seek your permission for conducting seminar on **Growth mantra to become successful entrepreneur.** The date for the same is 15<sup>th</sup> March and the time needed is approximately 1.30hrs (1.30pm-5.00pm). DR. Amit Rane will be the guest speaker, he is awarded Ph.D. in Management, MMM, and is a diploma holder in office automation from C-DAC. He has been working for last twelve years as VISITING FACULTY for Management programs, affiliated to reputed Universities. He's also a successful Entrepreneur and authorized channel partner of Godrej Interio & Godrej Security Solution companies. It will be beneficial to SVBMS & TVBMS students to gain knowledge from their expertise and experience. We need your support to carry on such initiative. I am hoping for a positive response from your end.

Topic : **Growth mantra to become successful entrepreneur.**

Date and Time: 18/01/2019

Resource Person: Dr Amit Rane

Beneficiary: Students of S.Y.BMS & T.Y.BMS

Profile detail of resource person is attached.

Thanking you in advance,

Your sincerely,

Sarika Surve

BMS Dept.

*(Signature)*

Vidya Vikas Education Society's  
 Vikas College of Arts, Science & Commerce  
 Seminar on "Growth Mantra on becoming Successful Entrepreneur". Dated: 15/03/2019 By Dr. Amit Rane

Sl. No.	Roll No.	Name	Sign
1	182525	KHILPARI SIDDHESH DEVIRAS SUSHMA	Ashwini
2	182526	JILLELA ANSHIKA KUMAR	Arjun
3	182527	SUREJA CHAUHAN	Arjun
4	182528	KHAN TALAL	Arjun
5	182529	SHRUTI S. ROSE	Arjun
6	182530	Sekar Ontar	Arjun
7	182531	Pranali Mayur	Arjun
8	182532	Pranali Mayur	Arjun
9	182533	Shrutika Vithal	Arjun
10	182534	MADHVI DEEPAH CHANDRAVATI	Arjun
11	182535	Shrutika Vithal	Arjun
12	182536	Shrutika Vithal	Arjun
13	182537	Shrutika Vithal	Arjun
14	182538	Shrutika Vithal	Arjun
15	182539	Shrutika Vithal	Arjun
16	182540	Shrutika Vithal	Arjun
17	182541	Shrutika Vithal	Arjun
18	182542	Shrutika Vithal	Arjun
19	182543	Shrutika Vithal	Arjun
20	182544	Shrutika Vithal	Arjun
21	182545	Shrutika Vithal	Arjun
22	182546	Shrutika Vithal	Arjun
23	182547	Shrutika Vithal	Arjun
24	182548	Shrutika Vithal	Arjun
25	182549	Shrutika Vithal	Arjun
26	182550	Shrutika Vithal	Arjun
27	182551	Shrutika Vithal	Arjun
28	182552	Shrutika Vithal	Arjun
29	182553	Shrutika Vithal	Arjun
30	182554	Shrutika Vithal	Arjun
31	182555	Shrutika Vithal	Arjun
32	182556	Shrutika Vithal	Arjun
33	182557	Shrutika Vithal	Arjun
34	182558	Shrutika Vithal	Arjun
35	182559	Shrutika Vithal	Arjun
36	182560	Shrutika Vithal	Arjun
37	182561	Shrutika Vithal	Arjun
38	182562	Shrutika Vithal	Arjun
39	182563	Shrutika Vithal	Arjun
40	182564	Shrutika Vithal	Arjun
41	182565	Shrutika Vithal	Arjun
42	182566	Shrutika Vithal	Arjun
43	182567	Shrutika Vithal	Arjun
44	182568	Shrutika Vithal	Arjun
45	182569	Shrutika Vithal	Arjun
46	182570	Shrutika Vithal	Arjun
47	182571	Shrutika Vithal	Arjun



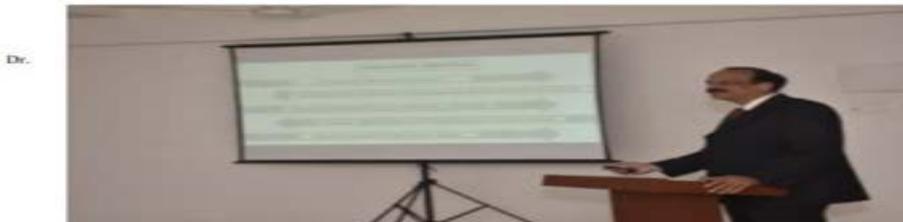
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## 11) Use Of ICT Tools For Seminars Presentations

Resource person using Powerpoint presentations for Seminars

**RESOURCE PERSON FOR THE SEMINAR.**

**DR. SUNIL KARVE**



Sunil Karve is distinguished educationist, social activists, corporate trainer & researcher with more than two decades of experience. He is a Chairman of Ad-hoc Board of Studies in Banking & Finance, Investment management of University of Mumbai and former member of Adhoc Board of Studies in Trade, Transport & Industry. He is a member Research Recognition Committee in Commerce & Management & also a member of screening committee for Postdoctoral Fellowship proposals of Savitribai Phule Pune University. He has delivered lectures and published on different aspects of commerce and management. He is an approved guide of university of Mumbai, SNDT and other Indian universities. He has successfully guided M.PHIL and Ph.D. Scholars and worked as external examiner for Viva Voc. ,for the students of class T.Y.BMS and T.Y.BAF.

After working for more than two decades as a director of management institute conducting MMS & PGDM programmes, and now he is currently working as a principal in Ramji Assar Vidyalaya Wadi Trust's Laxmichand Golwala College of Commerce and Economics, Ghatkopar College is reaccredited by NAAC.

Seminar were attended by approximately 49 students of BMS. All faculties of BMS department. Principal of Dr.R.K.Patra, Vice Principal S.Mathew.

Welcome speech was given by BMS co-ordinator Mrs. Sarika Surve and session was handover to guest speaker.

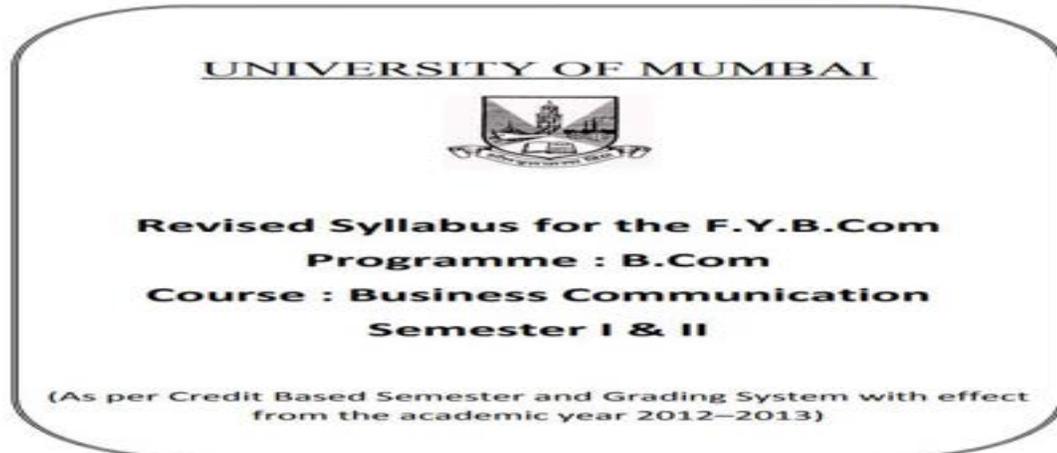
Dr Sunil Karve in very friendly manner communicate with students and explain each and very minute details of research work with powerpoint presentation. The session was a wonderful interactive session where the attendee interacted with the speakers clarifying their doubts and asking interesting questions.



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## 12) Syllabus of BCOM For Case Study

AC- 19-3-2012  
Item No. 4.35



### 6. Introduction to Business Ethics

2

- Concept and Interpretation
- Importance of Business Ethics
- Personal Integrity at the workplace
- Business Ethics and media
- Computer Ethics
- Corporate Social Responsibility

Teachers can adopt a case study approach and address issues such as the following so as to orient and sensitize the student community to actual business practices:

- Surrogate Advertising
- Patents and Intellectual Property Rights
- Dumping of Medical/E-waste
- Human Rights Violations and Discrimination on the basis of gender, race, caste, religion, appearance and sexual orientation at the workplace
- Piracy
- Insurance
- Child Labour

### Unit 2: Business Correspondence

#### 1. Theory of Business Letter Writing

2

- Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block
- Principles of Effective Letter Writing
- Principles of effective Email Writing

#### 2. Personnel Correspondence

10

- Statement of Purpose
- Job Application Letter and Resume
- Letter of Acceptance of Job Offer, Letter of Resignation
- [Letter of Appointment, Promotion and Termination, Letter of Recommendation (to be taught but not to be tested in the examination)]

### Unit 3: Language and Writing Skills

#### 1. Commercial Terms used in Business Communication

#### 2. Paragraph Writing

8

- Developing an idea, using appropriate linking devices, etc
- Cohesion and Coherence, self-editing, etc [Interpretation of technical data, Composition on a given situation, a short informal report etc.]

#### Activities

1. Listening Comprehension
2. Remedial Teaching
3. Speaking Skills: Presenting a News Item, Dialogue and Speeches
4. Paragraph Writing: Preparation of the first draft, Revision and Self – Editing, Rules of spelling.
5. Reading Comprehension: Analysis of texts from the fields of Commerce and Management

4



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### 13) Online Quiz During Pandemic



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विद्या विना न विद्यायाः सोसायटी  
विद्या विना न विद्यायाः सोसायटी  
विद्या विना न विद्यायाः सोसायटी

राजर्षी शाहू महाराज यांच्या १८७ वी जयंती व  
सामाजिक न्याय दिवानिमित्त  
मराठी वाङमय मंडळ व ज्ञान स्रोत केंद्र (ग्रंथालय)  
आयोजित  
**प्रश्नमंजुषा**  
सहभागासाठी लिंक :  
<https://tinyurl.com/78yw2jx2>  
अखिरीर दि. २८ जून ते २८ जून २०२१

**सूचना:**  
ई-प्रश्नमंजुषासाठी विद्यार्थी २००० रुपय किंवा अधिक  
प्रश्नमंजुषा फक्त मराठीभाषीय विद्यार्थीसाठी आहे.

श्री. उदय कुलकर्णी  
अध्यक्ष  
श्री. अशोक शिंदे  
अध्यक्ष, मराठी वाङमय मंडळ  
श्री. अरुण के. पाटील  
अध्यक्ष  
श्री. राजेश कुमार  
अध्यक्ष, दि. वि. सं. सं. सं. सं. सं.

QUIZ: Rajarshi Shahu Maharaj was an influential figure in Indian history, particularly in the state of Maharashtra. On occasion of Samajik Nyay Din on 26<sup>th</sup> June, 2021 Online Quiz is organized through Google forms. The questions are based on his social, educational, political work. This quiz link is circulated through Whats app group. More the 200 students are participating in this activity. E-certificates also given online through their email IDs. The certify'm platform is used to send the e-certificates.

Uday U. Kulkarni  
Librarian



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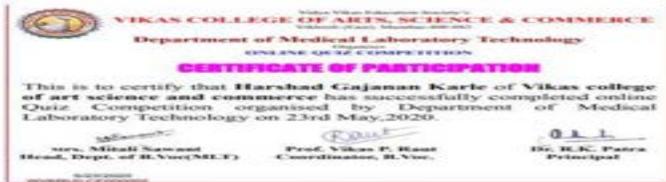
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Vikas College of Art's, Science and Commerce  
Department of BVOC MLT  
A.Y. 2019-2020

**1) Intercollegiate "Online Awareness quiz"**

Date: 24<sup>th</sup> May to 27<sup>th</sup> May 2020

Online Session

Quiz of 20 questions for 100 marks, 282 certificates were mailed to staff and students.



**2) Intercollegiate " World Blood Donor Day"**

Date: 14<sup>th</sup> June to 17<sup>th</sup> June 2020.

Online session

Quiz of 20 questions for 100 marks, 222 certificates were mailed to staff and students.



Vidya Vikas Education Society's  
Vikas College of Art's, Science and Commerce  
Department of Biotechnology

**ONLINE QUIZ AND ELOCUTION COMPETITIONS**

Department organized Intradepartmental Online Competitions on the occasion of Independence Day 15<sup>th</sup> August 2020. Elocution competition and Quiz Contest were conducted.

Topics for Elocution Competition:

1. Contribution and Growth of Women in Sports in India,
2. How Can E-Technology help Indian Farmers come out of distress,
3. nationaleducationPolicy2020 : Idealistic or Implementable

Topics for Online Quiz Competition:

Scientific Research Institutes in India and their contribution in Science

. Around 47 students for Quiz Contest and 31 students for Elocution Competition from B.Sc. and M.Sc. classes participated in the quiz contest. The winners and the participants for both the competitions were offered with the certificates.

All the students of M.Sc. (Biotech) (Part II) completed the online Certificate Course on Bacterial Genomes: Disease Outbreaks and Antimicrobial Resistance from Wellcome Sanger Institute in the month of April 2020.



## 14) RTools , Scilab and Biotech Soft ware for Bioinformatics practicals SCI Lab tool For IT

Write a Scilab Code to find the real root of the equation  $x^3 - x - 1 = 0$  using bisection method correct to four places of decimal.

**Scilab Code:**

```
//bisection method
clc;
clear;
defm('y=f(x)', 'y=x^3-x-1');
x1=1,x2=2; //f(1) is negative and f(2) is positive
d=0.0001; //for accuracy root
c=1;
printf('Successive approximations \t x1\t \tx2\t \tm\t \tf(m)\n');
while abs(x1-x2)>d
    m=(x1+x2)/2;
    printf(' \t%f\t%f\t%f\t%f\n',x1,x2,m,f(m));
    if f(m)*f(x1)>0
        x1=m;
    else
        x2=m;
    end
    c=c+1; //to count number of iterations
end
printf('The solution of equation after %i iteration is %g',c,m)
```

**Output:**

```
Scilab 6.0.2 (19 Oct 2016) Console
Startup execution:
Loading initial environment
--> exec('E:\FYIT\bisection.sce', -1)
Successive approximations      #1          #2          #3          #4          #5          #6          #7          #8          #9          #10         #11         #12         #13         #14         #15
1.000000      2.000000      1.500000      1.500000      1.250000      1.250000      1.375000      1.375000      1.312500      1.312500      1.343750      1.343750      1.328125      1.328125      1.320312
1.000000      1.000000      1.500000      1.500000      1.250000      1.250000      1.375000      1.375000      1.312500      1.312500      1.343750      1.343750      1.328125      1.328125      1.320312
1.250000      1.250000      1.500000      1.500000      1.375000      1.375000      1.312500      1.312500      1.343750      1.343750      1.328125      1.328125      1.320312      1.320312      1.324219
1.312500      1.312500      1.375000      1.375000      1.343750      1.343750      1.328125      1.328125      1.320312      1.320312      1.324219      1.324219      1.326172      1.326172      1.325195
1.312500      1.312500      1.343750      1.343750      1.328125      1.328125      1.320312      1.320312      1.324219      1.324219      1.326172      1.326172      1.325195      1.325195      1.324707
1.320312      1.320312      1.324219      1.324219      1.326172      1.326172      1.325195      1.325195      1.324707      1.324707      1.324829      1.324829      1.324651      1.324651      1.32477
1.324219      1.324219      1.326172      1.326172      1.325195      1.325195      1.324707      1.324707      1.324829      1.324829      1.324651      1.324651      1.32477      1.32477      1.32477
1.324707      1.324707      1.324829      1.324829      1.324651      1.324651      1.32477      1.32477      1.32477      1.32477      1.32477      1.32477      1.32477      1.32477      1.32477
1.324707      1.324707      1.324829      1.324829      1.324651      1.324651      1.32477      1.32477      1.32477      1.32477      1.32477      1.32477      1.32477      1.32477      1.32477
The solution of equation after 15 iteration is 1.32477
--> |
```



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**R-TOOL - ICT Based tool**

**Data Set : 34,47,1,1,57,24,34,19,19,50,28,1,34.**

For the above data calculate :

- Mean
- Median
- Mode
- Quartiles
- Range
- Inter quartile range

Also plot the Histogram.

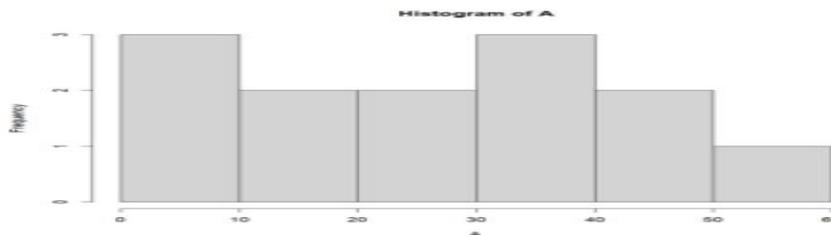
Source Code :

```
1 cat("\014")
2 #Print Data Set : 34,47,1,1,57,24,34,19,19,50,28,1,34")
3 #Print A
4 A<-c(34,47,1,1,57,24,34,19,19,50,28,1,34)
5 #mean
6 x<-mean(A)
7 #Print C=mean=")
8 #Print C)
9 #median
10 #median(A)
11 #Print C=Median=")
12 #Print C)
13 #mode
14 B<-table(A)
15 #names(B)
16 #as.numeric(C)
17 #as.numeric(B)
18 #find(X=Y)
19 #xval<-max(Y)
20 #print(C)
21 #print(C)
22 #print C= Mode : ")
23 #Print C= Mode : ")
24 #Print C= Mode : ")
25 #Print C= Mode : ")
26 #Print C= Mode : ")
27 #Print C= Mode : ")
28 #Print C= Mode : ")
29 #Print C= Mode : ")
30 #range
31 #range(A)
32 #Print C= Range : ")
33 #Print C)
34 #quartiles
35 #quartiles(A)
36 #Print C=Quartiles of A=")
37 #Print C)
38
```

```
40 #interquartile range
41 i<-IQR(A)
42 print("Interquartile Range of A =")
43 print(i)
44 #Histogram of A
45 hist(A)
46
47
48
```

**Output :**

```
[1] "Data Set : 34,47,1,1,57,24,34,19,19,50,28,1,34"
[1] "Mean="
[1] 26.84615
[1] "Median="
[1] 28
[1] "Mode : "
[1] "1"
[1] "34"
[1] "Range : "
[1] 1 57
[1] "Quartiles of A : "
0% 25% 50% 75% 100%
1 19 28 34 57
[1] "Interquartile Range of A ="
[1] 15
```





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## a) MSC Biotchnology - ICT Tool For Bioinformatics

### 1) EMBL

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Bioinformatics EMBL EBI Hinxton	Cell Biology and Biophysics EMBL Heidelberg
Developmental Biology EMBL Heidelberg	Directors' Research EMBL Heidelberg
Epigenetics and Neurobiology EMBL Rome	Genome Biology EMBL Heidelberg
Structural Biology EMBL Grenoble	Structural Biology EMBL Hamburg
Structural and Computational Biology EMBL Heidelberg	Tissue Biology and Disease Modelling EMBL Barcelona

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All Databases Search

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**Popular Resources**

- PubMed
- Bookshelf
- PubMed Central
- BLAST
- SickleCell
- Genomes
- SNP
- Gene
- Protein
- PubChem

**NCBI News & Blog**

- NIH Genetic Testing Registry (GTR): Annual Review Process Ensures High-quality Data
- RefSeq Release 225 Now Available
- Check out RefSeq release 225, now available online and from the FTP site. View and access RefSeq data.
- Universal Reference Numbers for 1q Domains Now Available in NCBI's 3D Structure Viewer



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3) CATH/ Gene 3D

**CATH / Gene3D v4.3**  
151 million protein domains classified into 5,871 superfamilies

Search by keywords, PDB code, 3D term, etc.

CATH annotations for the 21 model organisms predicted by AlphaFold (v2) are available to download (doi:10.1038/s43993-023-04488-9). Core classification files for the latest version of CATH-Plus (v4.3) are available to download. Daily updates of our very latest classifications are also available.

- 3D Structure**  
Find out what 3D structure your protein adopts.
- Protein Evolution**  
Learn about a particular protein family and how it evolved.
- Protein Function**  
Investigate the function of your protein.
- Conserved Sites**  
Look at protein sites that are highly conserved and...
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**What is CATH-Gene3D?**  
CATH is a classification of protein structures downloaded from the Protein Data Bank. We group proteins into families and superfamilies when there is sufficient evidence they have diverged from a common ancestor.

**Latest Release Statistics**

	CATH-Plus 4.3.0	CATH (daily snapshot)
PDB Release	01-07-2019	2 months

4) SCOP

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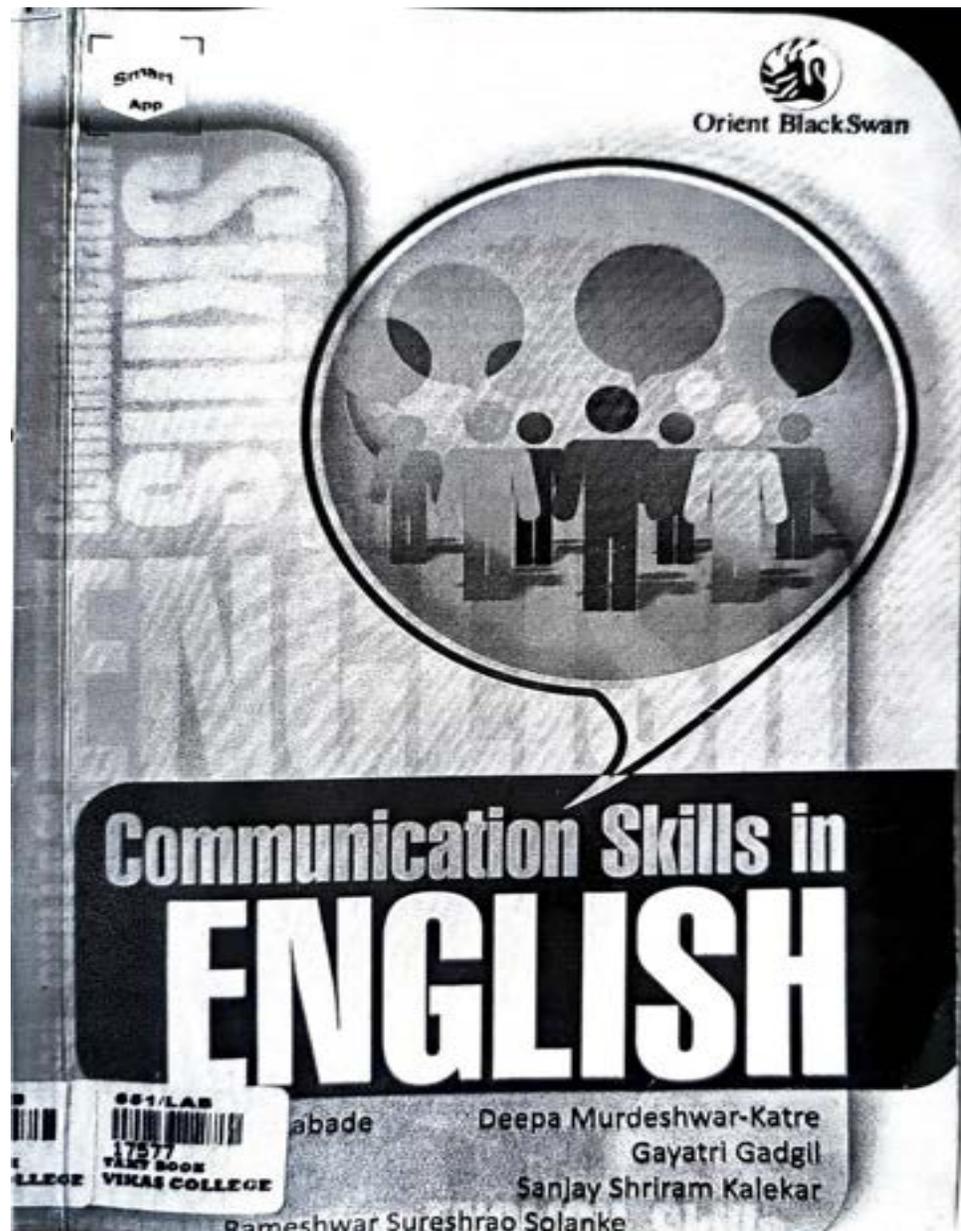
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## 15) Listening and Speaking Skills exercises in English





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Oral and written skills in English have become an essential part of our lives today. A team of authors from University of Mumbai has worked together to prepare this book for students of FYBA, that provides both theoretical foundation and practical exercises so as to help the learners hone their oral and written skills in English. This book aims to assist students across geographies to learn to communicate in English, while maintaining the desired academic standard. The text is accompanied by an app that hosts listening passages.

**Contributors**

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