Criterion 1 – Curricular Aspects (QlM 1.3.2)

1.3.2 Percentage of students undertaking project work/field work/internships

Academic Year 2021-2022

Number of Students Undertaking Projects

No. of Students Undertaking Projects	**Department of Chemistry**		
	Semester IV	**Semester VI**	**Total**
	101	57	158
	Department of Commerce		
	00	31	31
	Total		**189**

Number of Students Undertaking Field Visit

No. of Students Undertaking Field Visits	**Visit**	**No. of Students**
	Department of Botany	
	Field visit	57
	PD Agricultural University, Akola	50
	Department of Commerce and Economics	
	CA office	25
	ICM Computers	32
	Anita Gruh Udyog	36
	Total	**201**

1.3.2 Percentage of students undertaking project work/field work/internships (Data for the latest completed academic year)

Criterion 1 – Curricular Aspects (QlM 1.3.2)

Number of Students Undertaking Internship

	Class	Place of Internship	No. of Students benefited
No. of Students Undertaking Internship	B. A. II nd year	Mauliputra Producer Company Ltd. Nandura	36
	B. A. II nd year	Nandura Agro Farmer Producer Company Ltd. Nandura	44
	B. A. III rd year	Rana Bakery, Nandura	40
	B. A. III rd year	Kisan Automobiles (Bajaj Services)	30
	B. Com. I st year	Priyadarshini Nagari Sahkari Pathsanstha, Nandura	52
Total			**202**

Total number of students undertaking projects/field visits/internships

No. of Students Undertaking Projects	No. of Students undertaking Field visits	No. of Students undertaking Internship	**Total**
189	193	202	**584**

IQAC Coordinator
Shri Pundlik Maharaj Mahavidyalaya
Nandura(Rly) Dist. Buldana(M.S.)

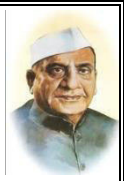
Principal
Shri Pundlik Maharaj Mahavidyalaya
NANDURA-443 404 Dist.Buldana

S.P.M. College, Nandura (Rly.) SEAL

1.3.2 Percentage of students undertaking project work/field work/internships (Data for the latest completed academic year)

ACADEMIC YEAR 2021-2022

(STUDENTS UNDERTAKING PROJECTS)



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Department of Chemistry

Date: 05/01/2022

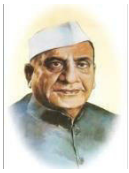
Notice

All the students of B. Sc. 2nd year and B. Sc 3rd year are informed hereby to submit your projects with respective advisors by March 10th, 2022.

Note: Failing to submit by deadline may cause disciplinary action.

Dr. S. D. Tarale

Head
Department of Chemistry
Shri Pundlik Maharaj Mahavidyalaya
Nandura(Rly) Dist. Buldana(M.S.)



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Project Allotment List (Department of Chemistry)

Project Assignment topic summer -2022, Department of Chemistry

Class- B.Sc-III, Sem-VI

Sr. No.	Roll number	Student Name	Name of Project Assignment Topic
1	21AB516739	Aaliya Nazeer Shaikh Nazeer	Valence bond theory
2	21AB516740	Abhidnya Devendra Narwade	Valence bond theory
3	21AB516741	Abhishek Rajendra Shingote	Valence bond theory
4	21AB516742	Afratarab Mohammad Sadique	Valence bond theory
5	21AB516743	Ajay Anil Wankhade	Valence bond theory
6	21AB516744	AKASH GOPAL GAWANDE	Spectrophotometeric Technique
7	21AB516745	ALFIYA ISHRAT AYYUB KHAN	Spectrophotometeric Technique
8	21AB516746	AMOL VIJAY JUMDE	Spectrophotometeric Technique
9	21AB516747	Ankita Vijay Wankhade	Spectrophotometeric Technique
10	21AB516748	Anuradha Omprakash Bhojane	Spectrophotometeric Technique
11	21AB516749	ARSHAD AHMED KHAN ANSAR ALI KHAN	Paper Chromatograhpy
12	21AB516750	ARSHIYA PARVEEN SYED RASHEED	Paper Chromatograhpy
13	21AB516751	Farhin Anjum Shaikh Arif Qureshi	Paper Chromatograhpy
14	21AB516752	GAUTAM GAJANAN INGLE	Paper Chromatograhpy
15	21AB516753	Gulnaz Parveen Abdul Sattar	Paper Chromatograhpy
16	21AB516754	HUSNA ARA MOHAMMAD HAROON	Organometallic Chemistry
17	21AB516755	Jayashri Vijay Ghanokar	Organometallic Chemistry
18	21AB516756	Kartiket Laxman Ghanokar	Organometallic Chemistry
19	21AB516757	Khan Musharra Javed Ali Khan	Organometallic Chemistry
20	21AB516758	KHANSA WALIYA AKBAR KHAN	Organometallic Chemistry
21	21AB516759	Khushnuma Aafrin Mohammad Fayaz	Bio-inorganic Chemistry
22	21AB516760	Krushna Rajesh Gawande	Bio-inorganic Chemistry
23	21AB516761	Mohammad Azim Shaikh Mehboob Qureshi	Bio-inorganic Chemistry
24	21AB516762	Mohammad Gazi Nazeer Ahmad Qureshi	Bio-inorganic Chemistry
25	21AB516763	mohammad umair farooque mohammad rafique	Bio-inorganic Chemistry
26	21AB516764	MOHD Rehan SK RASHID	Uv- Spectroscopy
27	21AB516765	Mukhtar Khan Asfaque Khan	Uv- Spectroscopy
28	21AB516766	NILESH MURLIDHAR SHITRE	Uv- Spectroscopy
29	21AB516767	Nilesh Nivrutti Lande	Uv- Spectroscopy
30	21AB516768	Nitin Dnyaneshwar Ghanokar	Uv- Spectroscopy
31	21AB516769	PAVAN RAMESHWAR INGLE	IR- Spectroscopy
32	21AB516770	Pooja Ramesh Raut	IR- Spectroscopy
33	21AB516771	Pranav Baliram deokar	IR- Spectroscopy
34	21AB516772	PUJA DURYODHAN INGLE	IR- Spectroscopy
35	21AB516773	Rauziya Rohi Abdul Mannan	IR- Spectroscopy
36	21AB516774	Rekha Gajanan Gawhad	Nuclear Chemistry
37	21AB516775	SABA AFREEN SAYYED KHALIL	Nuclear Chemistry
38	21AB516776	Sadiya Imran Ayyub Khan	Nuclear Chemistry
39	21AB516777	Saima Tabassum Mohammad Jameel Shaikh	Nuclear Chemistry
40	21AB516778	Sanket Jagannath Thakare	Nuclear Chemistry
41	21AB516779	SANKET KAILASRAO TAYADE	Electrochemistry
42	21AB516780	SHAFIQUE KHAN BASHEER KHAN	Electrochemistry

Sr. No.	Roll number	Student Name	Name of Project Assignment Topic
43	21AB516781	Shaikh Azim Shaikh Aziz	Electrochemistry
44	21AB516782	Shaikh Faizan Shaikh Ismail	Electrochemistry
45	21AB516783	Shaikh Nadim Shaikh Wakil	Electrochemistry
46	21AB516784	Shaziya Anjum Waseem Khan	Mass Spectroscopy
47	21AB516785	Shirin Akhter Ashfaque Ahmad	Mass Spectroscopy
48	21AB516786	Shital Gajanan Malthane	Mass Spectroscopy
49	21AB516787	SURAJ SUBHASH INGLE	Mass Spectroscopy
50	21AB516788	Suvarna Raghunath Sonagare	Mass Spectroscopy
51	21AB516789	Swapnil Ravindra Khete	NMR- Spectroscopy
52	21AB516790	Swati Suresh Satao	NMR- Spectroscopy
53	21AB516791	Syed Shahebazuddin Seyd Moinuddin	NMR- Spectroscopy
54	21AB516792	TAUFIQUE KHAN YUSUF KHAN	NMR- Spectroscopy
55	21AB516793	Vinayak Gajanan Jumde	NMR- Spectroscopy
56	21AB516794	VINAYAK NIMBAJI BAJODE	NMR- Spectroscopy
57	21AB516795	Zubiya Mahvash Ansaruddin Syed	NMR- Spectroscopy

S.P.M. College, Nandura (Rly.) SEAL

Head
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Nandura(Rly) Dist. Buldana(M.S.)

A Project Assignment

On

"Valence Bond Theory"

Submitted to

Sant Gadge Baba Amravati University, Amravati

In

Bachelor of Science

Submitted by

Abhidnya Devendra Narwade
(Roll No.: 21AB516740)
B.Sc.-III (Semester-VI)

Under the Guidance of

Dr. S. D. Tarale
Assistant Professor
Department of Chemistry

Dr. S. D. Tarale
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2021-22

Table of Contents:

1. Introduction
2. History
3. Theory
4. Modern Approaches
5. Applications
6. Reference

Valence bond theory

In chemistry, **valence bond (VBT) theory** is one of the two basic theories, along with molecular orbital (MO) theory, that were developed to use the methods of quantum mechanics to explain chemical bonding. It focuses on how the atomic orbitals of the dissociated atoms combine to give individual chemical bonds when a molecule is formed. In contrast, molecular orbital theory has orbitals that cover the whole molecule.[1]

History

Lothar Meyer in his 1864 book, *Die modernen Theorien der Chemie*, contained an early version of the periodic table containing 28 elements, classified elements into six families by their valence—for the first time, elements had been grouped according to their valence. Works on organizing the elements by atomic weight, until then had been stymied by the widespread use of equivalent weights for the elements, rather than atomic weights.[2]

In 1916, G. N. Lewis proposed that a chemical bond forms by the interaction of two shared bonding electrons, with the representation of molecules as Lewis structures. The chemist Charles Rugeley Bury suggested in 1921 that eight and eighteen electrons in a shell form stable configurations. Bury proposed that the electron configurations in transitional elements depended upon the valence electrons in their outer shell.[3] In 1916, Kossel put forth his theory of the ionic chemical bond (octet rule), also independently advanced in the same year by Gilbert N. Lewis.[4][5] Walther Kossel put forward a theory similar to Lewis' only his model assumed complete transfers of electrons between atoms, and was thus a model of ionic bonding. Both Lewis and Kossel structured their bonding models on that of Abegg's rule (1904).

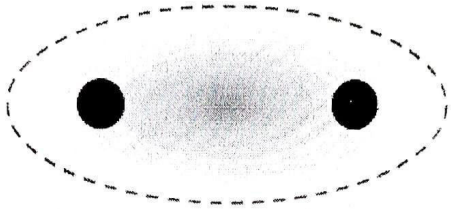
Although there is no mathematical formula either in chemistry or quantum mechanics for the arrangement of electrons in the atom, the hydrogen atom can be described by the Schrödinger equation and the Matrix Mechanics equation both derived in 1925. However, for hydrogen alone, in 1927 the Heitler–London theory was formulated which for the first time enabled the calculation of bonding properties of the hydrogen molecule H_2 based on quantum mechanical considerations. Specifically, Walter Heitler determined how to use Schrödinger's wave equation (1926) to show how two hydrogen atom wavefunctions join together, with plus, minus, and exchange terms, to form a covalent bond. He then called up his associate Fritz London and they worked out the details of the theory over the course of the night.[6] Later, Linus Pauling used the pair bonding ideas of Lewis together with Heitler–London theory to develop two other key concepts in VB theory: resonance (1928) and orbital hybridization (1930). According to Charles Coulson, author of the noted 1952 book *Valence*, this period marks the start of "modern valence bond theory", as contrasted with older valence bond theories, which are essentially electronic theories of valence couched in pre-wave-mechanical terms.

Linus Pauling published in 1931 his landmark paper on valence bond theory: "On the Nature of the Chemical Bond". Building on this article, Pauling's 1939 textbook: *On the Nature of the Chemical Bond* would become what some have called the bible of modern chemistry. This book helped experimental chemists to understand the impact of quantum theory on chemistry. However, the later edition in 1959 failed to adequately address the problems that appeared to be better understood by molecular orbital theory. The impact of valence theory declined during the 1960s and 1970s as molecular orbital theory grew in usefulness as it was implemented in large digital computer programs. Since the 1980s, the more difficult

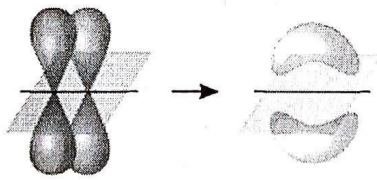
problems, of implementing valence bond theory into computer programs, have been solved largely, and valence bond theory has seen a resurgence.

Theory

According to this theory a **covalent bond** is formed between two atoms by the overlap of *half filled valence* atomic orbitals of each atom containing one unpaired electron. A valence bond structure is similar to a Lewis structure, but where a single Lewis structure cannot be written, several valence bond structures are used. Each of these VB structures represents a specific Lewis structure. This combination of valence bond structures is the main point of resonance theory. Valence bond theory considers that the overlapping atomic orbitals of the participating atoms form a chemical bond. Because of the overlapping, it is most probable that electrons should be in the bond region. Valence bond theory views bonds as weakly coupled orbitals (small overlap). Valence bond theory is typically easier to employ in ground state molecules. The core orbitals and electrons remain essentially unchanged during the formation of bonds.



σ bond between two atoms: localization of electron density



Two p-orbitals forming a π-bond.

The overlapping atomic orbitals can differ. The two types of overlapping orbitals are sigma and pi. Sigma bonds occur when the orbitals of two shared electrons overlap head-to-head. Pi bonds occur when two orbitals overlap when they are parallel. For example, a bond between two *s*-orbital electrons is a sigma bond, because two spheres are always coaxial. In terms of bond order, single bonds have one sigma bond, double bonds consist of one sigma bond and one pi bond, and triple bonds contain one sigma bond and two pi bonds. However, the atomic orbitals for bonding may be hybrids. Often, the bonding atomic orbitals have a character of several possible types of orbitals. The methods to get an atomic orbital with the proper character for the bonding is called hybridization.

Modern approaches

Modern valence bond theory now complements molecular orbital theory, which does not adhere to the valence bond idea that electron pairs are localized between two specific atoms in a molecule but that they are distributed in sets of molecular orbitals which can extend over

the entire molecule. Molecular orbital theory can predict magnetic and ionization properties in a straightforward manner, while valence bond theory gives similar results but is more complicated. Modern valence bond theory views aromatic properties of molecules as due to spin coupling of the π orbitals.[7][8][9][10] This is essentially still the old idea of resonance between Friedrich August Kekulé von Stradonitz and James Dewar structures. In contrast, molecular orbital theory views aromaticity as delocalization of the π-electrons. Valence bond treatments are restricted to relatively small molecules, largely due to the lack of orthogonality between valence bond orbitals and between valence bond structures, while molecular orbitals are orthogonal. On the other hand, valence bond theory provides a much more accurate picture of the reorganization of electronic charge that takes place when bonds are broken and formed during the course of a chemical reaction. In particular, valence bond theory correctly predicts the dissociation of homonuclear diatomic molecules into separate atoms, while simple molecular orbital theory predicts dissociation into a mixture of atoms and ions. For example, the molecular orbital function for dihydrogen is an equal mixture of the covalent and ionic valence bond structures and so predicts incorrectly that the molecule would dissociate into an equal mixture of hydrogen atoms and hydrogen positive and negative ions.

Modern valence bond theory replaces the overlapping atomic orbitals by overlapping valence bond orbitals that are expanded over a large number of basis functions, either centered each on one atom to give a classical valence bond picture, or centered on all atoms in the molecule. The resulting energies are more competitive with energies from calculations where electron correlation is introduced based on a Hartree–Fock reference wavefunction. The most recent text is by Shaik and Hiberty.[11]

Applications

An important aspect of the valence bond theory is the condition of maximum overlap, which leads to the formation of the strongest possible bonds. This theory is used to explain the covalent bond formation in many molecules.

For example, in the case of the F_2 molecule, the F–F bond is formed by the overlap of p_z orbitals of the two F atoms, each containing an unpaired electron. Since the nature of the overlapping orbitals are different in H_2 and F_2 molecules, the bond strength and bond lengths differ between H_2 and F_2 molecules.

In an HF molecule the covalent bond is formed by the overlap of the $1s$ orbital of H and the $2p_z$ orbital of F, each containing an unpaired electron. Mutual sharing of electrons between H and F results in a covalent bond in HF.

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4. https://chem.libretexts.org/Chemical_Bonding/Valence_Bond_Theory
5. Concise Inorganic Chemistry-J. D. Lee

A.D Narwade

Abhidnya Devendra Narwade

(Project Student)

Dr. S. D. Tarale

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A Project Assignment *On*

"UV-Spectroscopy"

Submitted to

Sant Gadge Baba Amravati University, Amravati

In

Bachelor of Science

Submitted by

Nilesh Murlidhar Sitre

(RollNo.:21AB516766)

B.Sc.-III(Semester-VI)

Underthe Guidanceof

Prof.N.K.Dhurve

(Assistant Professor)

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2021-22

Tableof Contents:

1. Introduction
2. History
3. Definition
4. Basic principal
5. Instrumentation
6. Absorption & Intensity Shift
7. Application
8. Reference

Introduction:

Ultraviolet–visible (UV–visible) spectrophotometry is primarily a quantitative analytical technique concerned with the absorption of near-UV (180–390 nm) or visible (390–780 nm) radiation by chemical species in solution.

Ultraviolet (UV)–visible spectrophotometry is widely used in biochemistry, both for the determination of species and for studying biochemical processes. This technique enables the determination of micromolar concentrations of substances and has a broad scope of application in this field since most biochemical compounds absorb in the UV–visible region or can be converted into some absorbing derivative.

History:

In July 1941, Arnold Beckman, founder of his eponymous company, introduced his DU UV-vis spectrophotometer. It was the production version of the Model D prototype that he and Howard Cary had first built.

Definition:

UV-Vis Spectroscopy (or Spectrophotometry) is a quantitative technique used to measure how much a chemical substance absorbs light. This is done by measuring the intensity of light that passes through a sample with respect to the intensity of light through a reference sample or blank.

Basic principal:

The Principle of UV-Visible Spectroscopy is based on the absorption of ultraviolet light or visible light by chemical compounds, which results in the production of distinct spectra. Spectroscopy is based on the interaction between light and matter.

Principal:

UV spectroscopy obeys the Beer-Lambert law, which states that: when a beam of monochromatic light is passed through a solution of an absorbing substance, the rate of decrease of intensity of radiation with thickness of the absorbing solution is proportional to the incident radiation as well as the concentration of the solution.

The expression of Beer-Lambert law is-

$A = \log (I0/I) = Ecl$

Where, A = absorbance

I0 = intensity of light incident upon sample cell

I = intensity of light leaving sample cell

C = molar concentration of solute

L = length of sample cell (cm.)

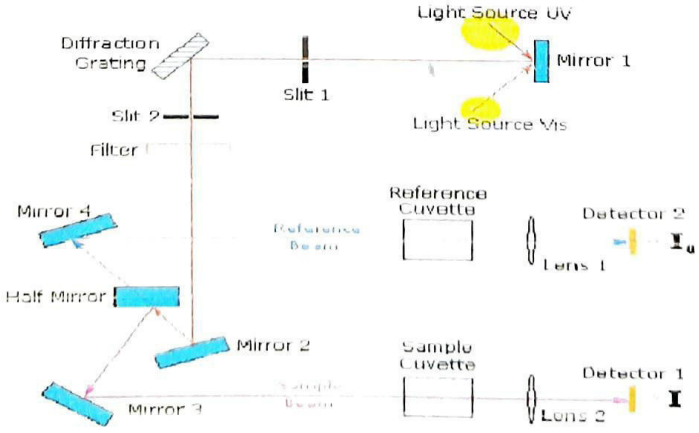
E = molar absorptivity

From the Beer-Lambert law it is clear that greater the number of molecules capable of absorbing light of a given wavelength, the greater the extent of light absorption. This is the basic principle of UV spectroscopy.

The Principle of UV-Visible Spectroscopy is based on the absorption of ultraviolet light or visible light by chemical compounds, which results in the production of distinct spectra. Spectroscopy is based on the interaction between light and matter. When the matter absorbs the light, it undergoes excitation and de-excitation, resulting in the production of a spectrum.

When matter absorbs ultraviolet radiation, the electrons present in it undergo excitation.

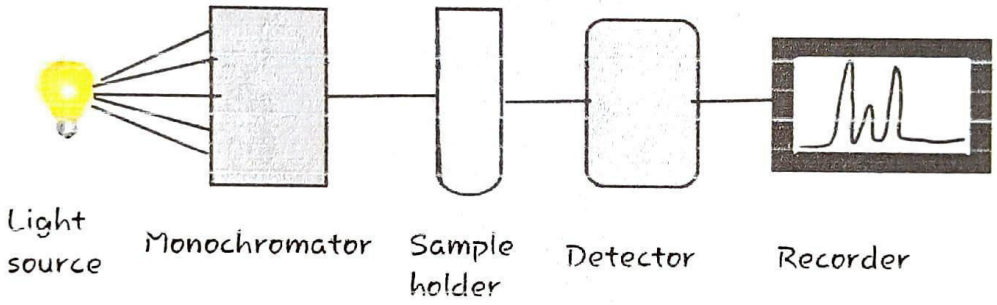
This causes them to jump from a ground state (an energy state with a relatively small amount of energy associated with it) to an excited state (an energy state with a relatively large amount of energy associated with it). It is important to note that the difference in the energies of the ground state and the excited state of the electron is always equal to the amount of ultraviolet radiation or visible radiation absorbed by it.



UV-Visible Spectroscopy and the Beer-Lambert Law

The statement of the Beer-Lambert law can be written as follows: When a beam of monochromatic light is made incident on a solution that contains a substance that absorbs the monochromatic light, the rate at which the intensity of the beam decreases along the thickness of the solution is directly proportional to the concentration of the absorbing substance in the solution and is also directly proportional to the intensity of the incident monochromatic radiation.

As per the Beer-Lambert law, the greater the number of absorbing molecules (that have the ability to absorb light of a specific wavelength), the greater the extent of absorption of the radiation.



Instrumentation

Instrumentation:

Instrumentation and working of the UV spectrometers can be studied simultaneously.

Most of the modern UV spectrometers consist of the following parts-

Light Source- Tungsten filament lamps and Hydrogen-Deuterium lamps are most widely used and suitable light source as they cover the whole UV region. Tungsten filament lamps are rich in red radiations; more specifically they emit the radiations of 375 nm, while the intensity of Hydrogen-Deuterium lamps falls below 375 nm.

Monochromator- Monochromators generally composed of prisms and slits. The most of the spectrophotometers are double beam spectrophotometers. The radiation emitted from the primary source is dispersed with the help of rotating prisms.

The various wavelengths of the light source which are separated by the prism are then selected by the slits such the rotation of the prism results in a series of continuously increasing wavelength to pass through the slits for recording purpose. The beam selected by the slit is monochromatic and further divided into two beams with the help of another prism.

Sample and reference cells- One of the two divided beams is passed through the sample solution and second beam is passé through the reference solution. Both sample and reference solution are contained in the cells. These cells are made of either silica or quartz. Glass can't be used for the cells as it also absorbs light in the UV region.

Detector- Generally two photocells serve the purpose of detector in UV spectroscopy. One of the photocell receives the beam from sample cell and second detector receives the beam from the reference. The intensity of the radiation from the reference cell is stronger than the beam of sample cell. This results in the generation of pulsating or alternating currents in the photocells.

Amplifier- The alternating current generated in the photocells is transferred to the amplifier. The amplifier is coupled to a small servometer. Generally current generated in the photocells is of very low intensity, the main purpose of amplifier is to amplify the signals many times so we can get clear and recordable signals.

Recording devices- Most of the time amplifier is coupled to a pen recorder which is connected to the computer. Computer stores all the data generated and produces the spectrum of the desired compound.

Absorption and intensity shifts in the UV spectroscopy

There are **four types** of shifts observed in the UV spectroscopy-

a) Bathochromic effect- This type of shift is also known as red shift. Bathochromic shift is an effect by virtue of which the absorption maximum is shifted towards the longer wavelength due to the presence of an auxochrome or change in solvents.

The nonbonding to pie* transition of carbonyl compounds observes bathochromic or red shift.

b) Hypsochromic shift- This effect is also known as blue shift. Hypsochromic shift is an effect by virtue of which absorption maximum is shifted towards the shorter wavelength. Generally it is caused due to the removal of conjugation or by changing the polarity of the solvents.

c) Hyperchromic effect- Hyperchromic shift is an effect by virtue of which absorption maximum increases. The introduction of an auxochrome in the compound generally results in the hyperchromic effect.

d) Hypochromic effect- Hyperchromic effect is defined as the effect by virtue of intensity of absorption maximum decreases. Hyperchromic effect occurs due to the distortion of the geometry of the molecule with an introduction of new group.

Application:

Applications of UV spectroscopy

1. Detection of functional groups- UV spectroscopy is used to detect the presence or absence of chromophore in the compound. This is technique is not useful for the detection of chromophore in complex compounds. The absence of a band at a particular band can be seen as an evidence for the absence of a particular group. If the spectrum of a compound comes out to be transparent above 200 nm than it confirms the absence of –
a) Conjugation b) A carbonyl group c) Benzene or aromatic compound d) Bromo or iodo atoms.

2. Detection of extent of conjugation- The extent of conjugation in the polyenes can be detected with the help of UV spectroscopy. With the increase in double bonds the absorption shifts towards the longer wavelength. If the double bond is increased by 8 in the polyenes then that polyene appears visible to the human eye as the absorption comes in the visible region.

3. Identification of an unknown compound- An unknown compound can be identified with the help of UV spectroscopy. The spectrum of unknown compound is compared with the spectrum of a reference compound and if both the spectrums coincide then it confirms the identification of the unknown substance.

4. Determination of configurations of geometrical isomers- It is observed that cis-alkenes absorb at different wavelength than the trans-alkenes. The two isomers can be distinguished with each other when one of the isomers has non-coplanar structure due to steric hindrances. The cis-isomer suffers distortion and absorbs at lower wavelength as compared to trans-isomer.

5. Determination of the purity of a substance- Purity of a substance can also be determined with the help of UV spectroscopy. The absorption of the sample solution is compared with the absorption of the reference solution. The intensity of the absorption can be used for the relative calculation of the purity of the sample substance.

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N. M. Shitre

Nilesh Murlidhar Sitre

(Project Student)

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(Project Guide)

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Project Assignment topic summer -2022, Department of Chemistry

Class B Sc II, Sem IV

Sr. No.	Roll Number	Name of student	Name of Project Assignment Topic
1	21AB316369	AAESHA PARVEEN ANSARULLA KHAN -	Transition Elements
2	21AB316370	AAFREEN FIRDOUS IRFANULLAH KHAN	Transition Elements
3	21AB316371	AALIYA SABA SHAIKH SABIR	Transition Elements
4	21AB316372	ABDUL AAMIR ABDUL KALIM	Transition Elements
5	21AB316373	ABDUL KABIR ABDUL BASHIR	Transition Elements
6	21AB316374	ABHISHEK GAJANAN KARODE	Thermodynamics
7	21AB316375	ADEEBA TABASSUM M ASHFAQUE	Thermodynamics
8	21AB316376	AFIFA SHAR MOHAMMAD AINULHAQUE	Thermodynamics
9	21AB316377	AJINKYA SHRIKRUSHNA MAPARI	Thermodynamics
10	21AB316378	ALFIYA FIRDOUS MO JAMEEL -	Thermodynamics
11	21AB316379	ALTAMASH KHAN MAHEBOOB KHAN -	Symmetry in crystal
12	21AB316380	AMOL GAJANAN DEVKAR	Symmetry in crystal
13	21AB316381	ANAM TAIYABA AQUEEL AHMED ahmad	Symmetry in crystal
14	21AB316382	ANIQA ASPARA MOHAMMAD JAVED -	Symmetry in crystal
15	21AB316383	AQSA PARVEEN MOOSA KHAN -	Symmetry in crystal
16	21AB316384	ARSHAD KHAN AMAN KHAN -	Magnetic properties
17	21AB316385	ARSHIYA PARVEEN ZAKIR HUSAIN -	Magnetic properties
18	21AB316386	ARTI MAHADEV INGLE	Magnetic properties
19	21AB316387	ASIM MIRZA ASGAR MIRZA -	Magnetic properties
20	21AB316388	ASRA SUMERA SHAIKH RIYAZ SHAIKH	Magnetic properties
21	21AB316389	AYUSH GAJANAN GANOJE	Catalytic properties
22	21AB316390	BARIRA AIMAN SABIR ULLAH KHAN	Catalytic properties
23	21AB316391	DEVANAND BABURAO INGLE	Catalytic properties
24	21AB316392	GANESH BHANUDAS MAHALE	Catalytic properties
25	21AB316393	GANESH DNYANESHWAR GHANOKAR	Catalytic properties
26	21AB316394	HERAM KAILAS MOHATA	Magnetic properties and color
27	21AB316395	INZEMAMUL HAQUE AIJAZUDDIN KHAN -	Magnetic properties and color
28	21AB316396	ISHADAYA ANANATANAND GOND	Magnetic properties and color
29	21AB316397	ISHAQUE ULLAH KHAN ZABI ULLAH KHAN	Magnetic properties and color
30	21AB316398	JAHED KHAN NAIM KHAN PATHAN	Magnetic properties and color
31	21AB316399	JUNED BAIG RAEES BAIG	crystal systems
32	21AB316400	KAMIL KHAN HAFIZ KHAN -	crystal systems
33	21AB316401	KHALID BAIG MUBARAK BAIG -	crystal systems
34	21AB316402	KHUSHI VISHWNATH JADHAV	crystal systems
35	21AB316403	M TAHSINUDDIN M KHALEELUDDIN	crystal systems
36	21AB316404	MAHEK BI SYED SHABBIR -	Actinides
37	21AB316405	MASIRA FIRDOS SYED MUZAMMIL -	Actinides
38	21AB316406	MINHAJ IQBAL WAHAJ IQBAL	Actinides
39	21AB316407	MISBAH PARVEEN MOHMMAD ASIF -	Actinides
40	21AB316408	MOHAMMAD HAAFIZ SHAIKH BISMILLAH -	Actinides
41	21AB316409	MOHAMMAD USAMA SHAIKH ANWAR -	lanthanide contraction
42	21AB316410	MOHAMMAD YUNUS SHAIKH MANNAN	lanthanide contraction
43	21AB316411	Mohd Altamash Karamat Khan	lanthanide contraction
44	21AB316412	MUDASSIR KHAN RAHIM KHAN	lanthanide contraction
45	21AB316413	MUHAMMAD UMAR MUHAMMAD ASLAM -	lanthanide contraction

Sr. No.	Roll Number	Name of student	Name of Project Assignment Topic
46	21AB316414	NABILA AFSHIN MOHD MOINUDDIN -	electromagnetic separation
47	21AB316415	NAHEED ANJUM MO DAYYAN	electromagnetic separation
48	21AB316416	NANDINI SURESH SAPKAL	electromagnetic separation
49	21AB316417	NAZIYA TABASSUM IRFAN KHAN -	electromagnetic separation
50	21AB316418	NAZNEEN FARAH MOHAMMAD MOHSIN	electromagnetic separation
51	21AB316419	NEHA SUNIL GAWAI	metallurgy
52	21AB316420	NILESH ARVIND WANKHEDE	metallurgy
53	21AB316421	NISAR Khan ISRAIL KHAN	metallurgy
54	21AB316422	PRASHIK SHESHRAO HIWALE	metallurgy
55	21AB316423	PRATHMESH SANJAY SHINDE	metallurgy
56	21AB316424	PRATIK GAJANAN SATOTE	Polynuclear hydrocarbons
57	21AB316425	RAHEELA BUSHRA MUHAMMAD AQEEL -	Polynuclear hydrocarbons
58	21AB316426	RAHMATULLAH KHAN KARAMATULLAH KHAN -	Polynuclear hydrocarbons
59	21AB316427	RAJRATNA SHESHRAO TAYADE	Polynuclear hydrocarbons
60	21AB316428	RAJU REBA SASTYA	Polynuclear hydrocarbons
61	21AB316429	RANJIT BHAGAVAT MAHALE	Electro Chemistry
62	21AB316430	Rohini Gopal Ambuskar	Electro Chemistry
63	21AB316431	ROHIT ASHOK MOLKE	Electro Chemistry
64	21AB316432	RUBI KHATOON MO AALAMGEER	Electro Chemistry
65	21AB316433	RUSHIKESH GAJANAN KONGHE	Electro Chemistry
66	21AB316434	SABA ANJUM MOHAMMAD RIYAZ	Carbohydrates
67	21AB316435	SADIYA ANJUM ISRAR KHAN	Carbohydrates
68	21AB316436	SAMAN FIRDOS JAVED ALI KHAN	Carbohydrates
69	21AB316437	SANIYA FIRDOUS SYED AZHARUDDIN -	Carbohydrates
70	21AB316438	SANIYA SAHER SYED ISMAIL -	Carbohydrates
71	21AB316439	SARA AELIYA MOHAMMAD NAZIM -	Aromatic nitro compounds
72	21AB316440	SARA PARVEEN MO SHAFI	Aromatic nitro compounds
73	21AB316441	SHAIKH AASIF SHAIKH RASHEED -	Aromatic nitro compounds
74	21AB316442	SHAIKH ATIQUE SHAIKH NAZEER -	Aromatic nitro compounds
75	21AB316443	SHAIKH FAIZAN SHAIKH USMAN -	Aromatic nitro compounds
76	21AB316444	SHAIKH MOHD SAHER-UL-ASR KALIM AHMAD -	Basicity of amino group
77	21AB316445	SHAIKH SAMEER SHAIKH SHABBIR -	Basicity of amino group
78	21AB316446	SHAIKH WASIQUE SHAIKH JABIR	Basicity of amino group
79	21AB316447	SHAIKH ZUBAIR SHAIKH RAHIM	Basicity of amino group
80	21AB316448	SHIFA ANJUM SYED NAZIR HUSAIN	Basicity of amino group
81	21AB316449	SHOHIL QUASAM KHAN	Amino acid
82	21AB316450	SHUBHAM RAJENDRA JARI	Amino acid
83	21AB316451	SHUMAIMA ASFIYA MOHAMMAD NAEEM -	Amino acid
84	21AB316452	SOHRAB ALI MD MUSTAQUE	Amino acid
85	21AB316453	SUALEHA SIDDIQUA KHANAM SHER KHAN	Amino acid
86	21AB316454	SUNIL RAMLAL SASTYA	Protein
87	21AB316455	SWAPNIL GANESH BODADE	Protein
88	21AB316456	SYED JUNED SYED MUZAMMIL -	Protein
89	21AB316457	SYED KHALID AZIA MOBIN SYED -	Protein
90	21AB316458	SYED NAVED SYED BAHAUDDIN -	Protein

Sr. No.	Roll Number	Name of student	Name of Project Assignment Topic
89	21AB316457	SYED KHALID AZIA MOBIN SYED -	Protein
90	21AB316458	SYED NAVED SYED BAHAUDDIN -	Protein
91	21AB316459	SYED ZAHED SYED USMANA -	Colligative Properties
92	21AB316460	TABASSUM PARVIN SHAIKH BISMILLAH	Colligative Properties
93	21AB316461	TANZILA PRAVEEN NASIR ALI KHAN	Colligative Properties
94	21AB316462	VAIBHAV GOVINDA WANKHEDE	Colligative Properties
95	21AB316463	VAIBHAV TULSHIRAM GUNJKAR	Colligative Properties
96	21AB316464	VISHAL DURGADAS BODAKHE	Synthetic Application of Acetic acid
97	21AB316465	VISHAL SANJAY MEHENGE	Synthetic Application of Acetic acid
98	21AB316466	Vivek Mangal Medhe	Synthetic Application of Acetic acid
99	21AB316467	ZARQA TARHEEM SYED ZAFAR ALVI	Synthetic Application of Acetic acid
100	21AB316468	ZOYA ISHRA RAFIQUE KHAN	Synthetic Application of Acetic acid
101	21AB316469	ZUBAIR SHAH HAROON SHAH -	Synthetic Application of Acetic acid

Assistant Professor
Department of Chemistry
Shri Pundlik Maharaj Mahavidyalaya
Nandura(Riy) Dist. Buldana(M.S.)

6432

A Project Assignment

On

Electrochemistry

Submitted to

Sant Gadge Baba Amravati University, Amravati

In

Bachelor of Science

Submitted by

Ku. Rubi Khatoon Mo Aalamgeer

(Roll No.: 21AB316432)

B.Sc. II. (Semester-IV)

Under the Guidance of

Mr. A.S. Nipte (Assistant Professor)

Dr. S.D. Tarale

Head

Department of Chemistry

Shri Pundlik Maharaj Mahavidyalaya Nandura

(Rly), Dist. Buldana-443404 (MS)

2021-22

Introduction to Electrochemistry

A.) Introduction:

1.) Electroanalytical Chemistry: group of analytical methods based upon electrical properties of analytes when it is made part of an electrochemical cell

2.) General Advantages of Electrochemistry:

a) selective for particular redox state of a species e.g. Ce^{III} vs. Ce^{IV}

b) cost - $ 8,000 - $25,000 for a good instrument compared to
$ 50,000 - $250,000 for a good spectrophotometer

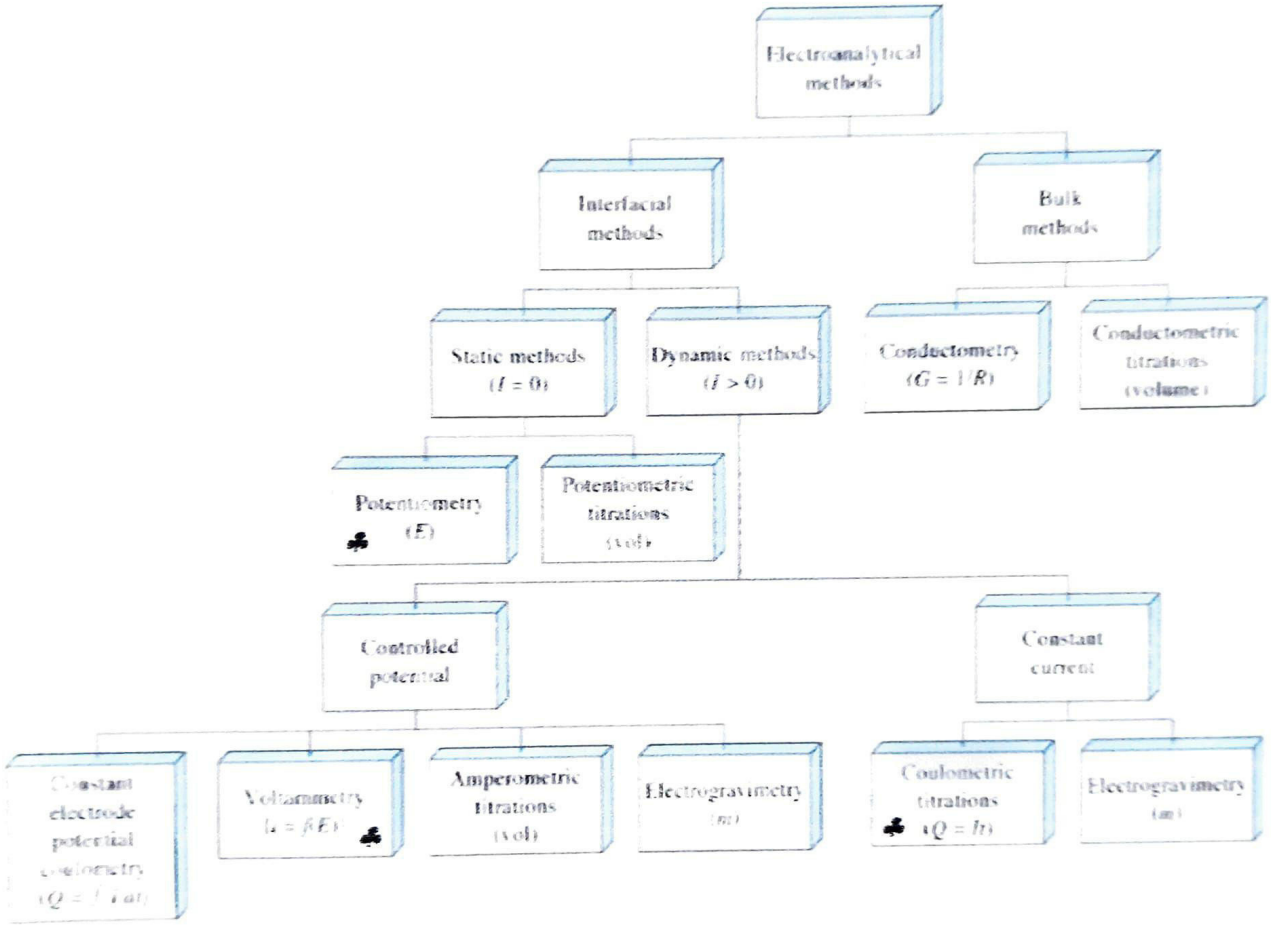
c) measures activity (not concentration)
② activity usually of more physiological importance

d) fast

e) in situ

f) information about:
② oxidation states, ② stoichiometry, ② rates
② charge transfer, ② equilibrium constants

B.) Types of Electroanalytical Methods



B.) Types of Electroanalytical Methods

Potentiometry: measure the potential of electrochemical cells without drawing substantial current

Examples: pH measurements, ion-selective electrodes, titrations

Coulometry: measures the electricity required to drive an electrolytic oxidation/reduction to completion

Examples: titrations, "chloridometers" (AgCl)

Voltammetry: measures current as a function of applied potential under conditions that keep a working electrode polarized

Examples: cyclic voltammetry, many biosensors

C.) Electrochemical Cell:

1.) Basic Set-up:

a) Two electrodes

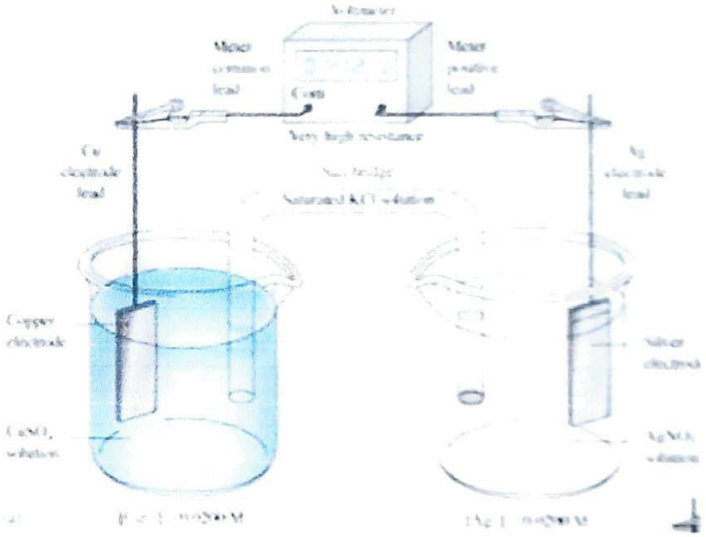
b) electrolytes solution

1) external connection between electrodes (wire)

2) internal connection via contact with a common solution or by different solutions connected by a salt bridge.

salt bridge – acts to isolate two halves of electrochemical cell while allowing migration of ions and current flow.

- usually consists of a tube filled with potassium chloride
- separate species to prevent direct chemical reactions

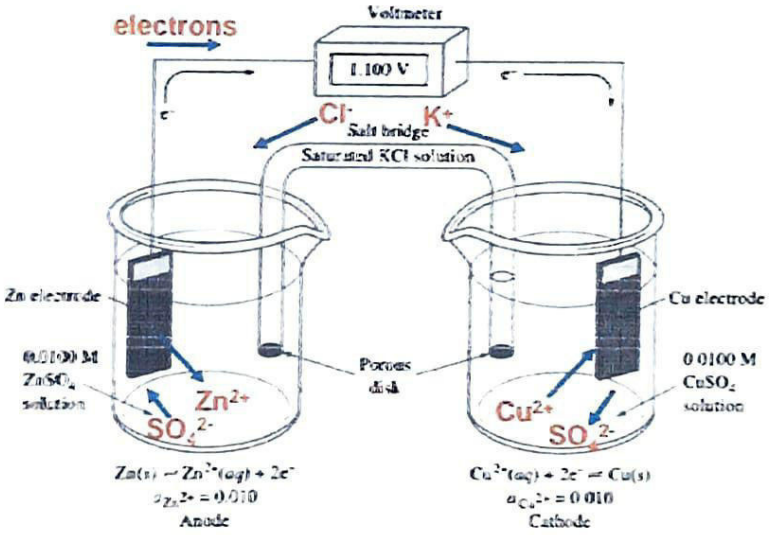


2.) Conduction/ Flow of current (charge) in cell:

a) electrons (e^-) within wires between two electrodes

b) ions within solution of each ½ cell (anions & cations) and through salt bridge/ migration

c) electrochemical reactions at electrode surfaces



At Cu electrode: $Cu^{2+} + 2e^- \leftrightarrow Cu(s)$ → *reduction* – gain of e^- net decrease in charge of species

At Zn electrode: $Zn(s) \leftrightarrow Zn^{2+} + 2e^-$ → *oxidation* – loss of e^- net increase in charge of species

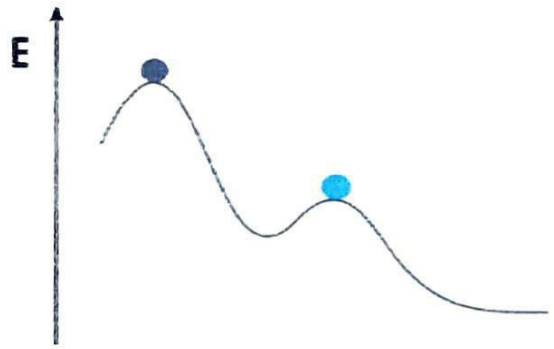
3.) *Net Reaction in Cell* – *sum of reactions occurring in the two ½ cells*

$$\begin{array}{r} Zn(s) \leftrightarrow Zn^{2+} + 2e^- \\ Cu^{2+} + 2e^- \leftrightarrow Cu(s) \\ \hline Cu^{2+} + Zn(s) \leftrightarrow Zn^{2+} + Cu(s) \end{array}$$

Potential of overall cell = measure of the tendency of this reaction to proceed to equilibrium

at equilibrium, potential (E_{cell}) = 0

\ Larger the potential, the further the reaction is from equilibrium and the greater the driving force that exists

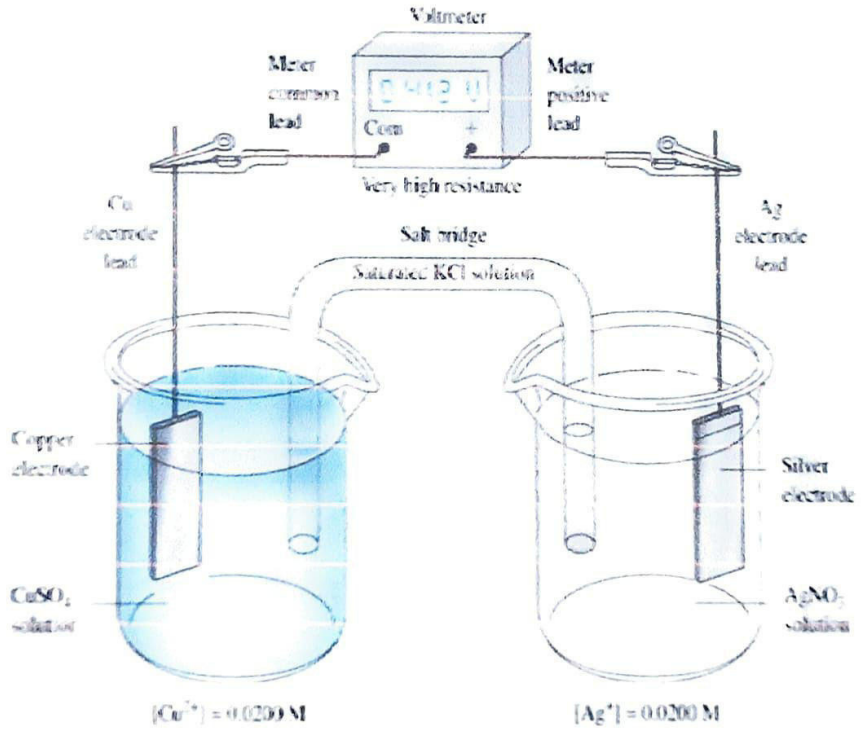


Similar in concept to balls sitting at different heights along a hill

4.) *Types of Cells:*

Galvanic Cells – reaction occurs naturally

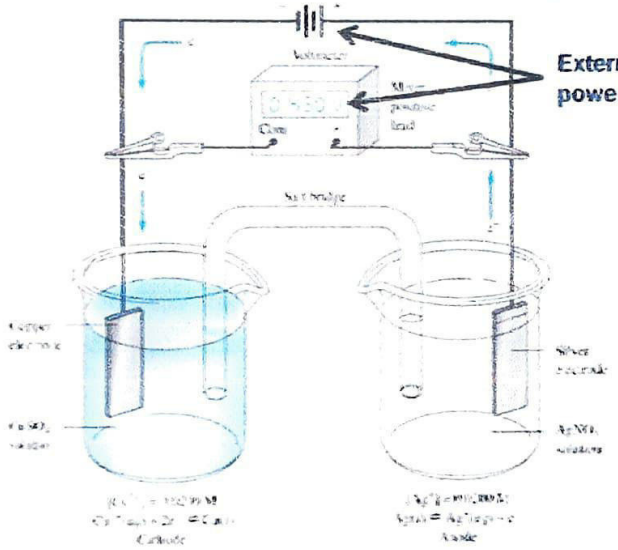
- positive potential (E_{cell} = +)
- exothermic → produces energy



4.) *Types of Cells:*

Electrolytic Cells – reaction does not occur naturally, requires external stimulus (energy) to occur

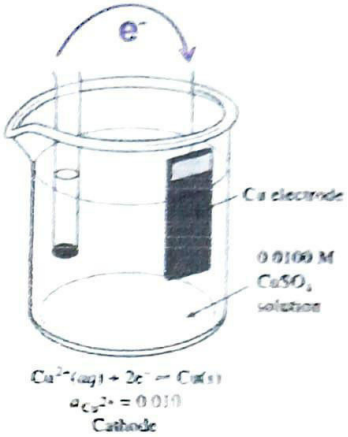
- negative potential (E_{cell} = -)
- endothermic → requires energy



Electrolytic Cell

Chemically Reversible Cell – a cell in which reversing the direction of the current simply reverses the chemical reaction

5.) *Electrodes:*



a.) Cathode – electrode where *reduction* occurs
Anode – electrode where *oxidation* occurs

b.) Examples of cathode ½ reactions:

$Cu^{2+} + 2e^- \leftrightarrow Cu(s)$

$Fe^{3+} + e^- \leftrightarrow Fe^{2+}$

$AgCl(s) + e^- \leftrightarrow Ag(s) + Cl^-$

- e^- supplied by electrical current via electrode
- species (products/reactants) can both be in solution (Fe^{3+}/Fe^{2+}) solids or coated on electrodes ($AgCl(s)/Ag(s)$ or combination ($Cu^{2+}/Cu(s)$)

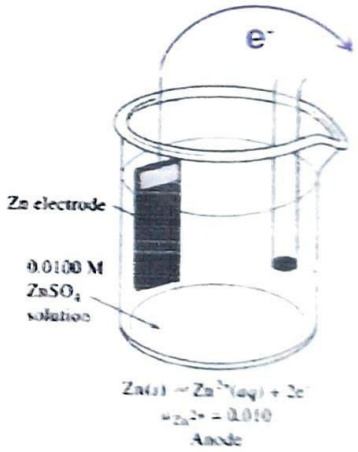
c.) Examples of anode ½ reactions:

$Cu(s) \leftrightarrow Cu^{2+} + 2e^-$

$Fe^{2+} \leftrightarrow Fe^{2+} + e^-$

$Ag(s) + Cl^- \leftrightarrow AgCl(s) + e^-$

- e^- is taken up by electrode into electrical circuit



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Shri Pundlik Maharaj Mahavidyalaya, Nandura

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****

20/02/2022

Department of Commerce

Academic Year-2021-2022

Notice

All students of B. Com III are hereby informed that they have to prepare a project report on topic, 'Functioning of Bank of India, Branch Nandura'. Completed reports must be submitted before 25/04/2022.

Note: Students should visit the bank in small groups, so that the regular work of the bank will not hamper.

Dr. S. U. Ulhe

Head

Department of Commerce

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura

Reaccredited by NAAC with 'C' grade

****

20/02/2022

Department of Commerce

Academic Year-2021-2022

Topic allotted for project: Functioning of Bank of India, Branch; Nandura

List of Students

Sr. No.	Name of Student
1	Archana Suresh Kute
2	Abhishek Prakash Mahakal
3	Dnyaneshwari S Gosavi
4	Shejal Pralhad Khanadare
5	Ankita Sudhakar Ingle
6	Priyanka Sudarshan Katkar
7	Ajay Sahdev Gade
8	Pritam Mahadev Wagh
9	Dnyaneshwar Suresh Sonone
10	Akash Ramdas Ghule
11	Ankit Shrikrushn Wagh
12	Akash Suresh Awchar
13	Swapnil Kailas Gade

14	Abhishek Devidas Tayade
15	Gaurav Arun Rautraye
16	Sakshi Panjabrao Kolhe
17	Sonal Ravindra Wakte
18	Rahul Nivrutti Tayade
19	Mayur Kailas Wase
20	Manoj Prakash Khiradkar
21	Shivam Vilas Chopde
22	Prajakta Avinash Jumde
23	Roshan Balu Nibalkar
24	Jaya Shivaji Galkar
25	Nikita Ananta Diware
26	Snehal Sahdev Wakode
27	Nikita Bhagwan Bodkhe
28	Yogesh Mahadev Mathe
29	Megha Ravindra Bodade
30	Gaurav Bhagwat Gange
31	Pandurang Vithal Dongre

Dr. S. U. Ulhe

Head

Department of Commerce

SEAL

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura (Rly). Dist.Buldana

Department of Commerce

Bank of India

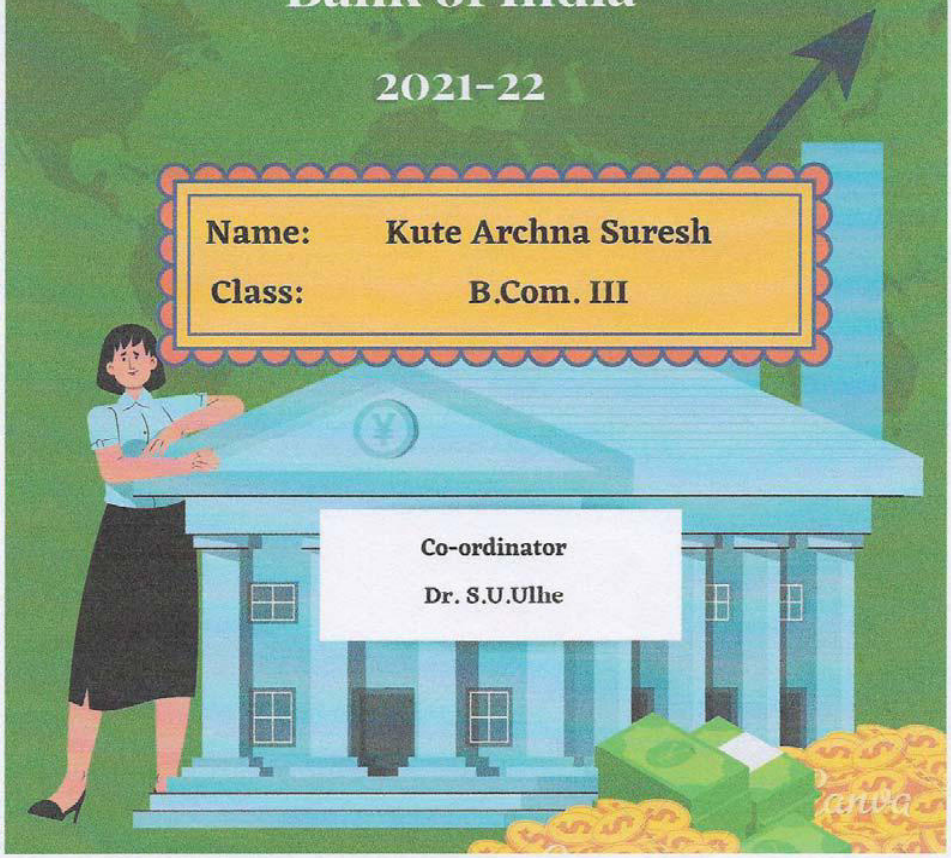
Branch Nandura

Project Report on Bank of India

2021-22

Name: Kute Archna Suresh

Class: B.Com. III



Co-ordinator

Dr. S.U.Ulhe

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura(Rly). Dist.Buldana

Department of Commerce

CERTIFICATE

2021-22

This is to certify that .....Kute Archna Suresh..... of B.Com. III Year has Successfully completed a project entitled study on functioning of Bank of India, Branch Nandura, Under my guidance during session 2021-2022.

Dr. S.U. Ulhe
Co-ordinator & Head

Dr. Alka A. Mankar
Principal

आपला ग्राहक जाणून घ्या

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अनुक्रमणिका

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प्रस्तावना :-

वाणिज्य शाखेच्या भाग ३ अंतर्गत अभ्यासक्रमाला असणाऱ्या ई-कॉमर्स या विषयामध्ये बँक, पत संस्था, सहकारी संस्था यांची कार्यपद्धती तसेच त्यांचे व्यवहार असे :- ठेवी आणि ठेवीचे प्रकार ठेवीचे व्याजदर कर्ज आणि कर्जाचे प्रकार कर्जाचे व्याजदर संस्थेच्या स्थापनेच्या उद्देश, भूमिका वैशिष्ट्ये इत्यादी बद्दल माहिती होण्यासाठी संस्थेला भेट देण्याचे ठरले.

या संदर्भात महाविद्यालयाच्या प्राचार्य यांची संमती मुळे होऊन प्रा. श्री. उल्हे सर यांनी संस्थेच्या व्यवस्थापक यांची शुद्ध संमती मिळाली आणि दि. ४.२.१९ रोजी दुपारी ३ वाजता भेट देण्याचे ठरविले सर्व विद्यार्थी विद्यार्थिनी प्रा. उल्हे सर आणि गोड मॅम सर्वांनी संस्थेला भेट देऊन सर्व माहिती व्यवस्थापक श्री. कराळे सर आणि तेथील कर्मचारी वृंद यांकडून घेतली व ती माहिती मी पुढीलप्रमाणे अहवालात सादर करीत आहे.

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संस्थेची उत्पत्ती

नांदुरा या होत्याशा गावात काही श्रेष्ठ नागरिक मंडळी एकत्रित झाली सहकारी तत्वावर नांदुऱ्याच्या विकासाला हातभार लावणारी एखादी संस्था उभारता येईल. याबाबत चर्चा झाली. विचार विनिमय झाला आणि सहकारी तत्वांवर पतसंस्था उभारण्याचे निश्चित करण्यात आले.

प्रियदर्शिनी नागरी सहकारी पतसंस्था मर्यादित नांदुरा नावाने संस्थेची 1986 साली स्थापना करण्यात आली. संस्थेचे संस्थापक संचालक श्री. नानाराव गुलाबराव देशमुख यांचा ही संस्था स्थापन करण्यास सिंहाचा वाटा आहे.

संस्थेची स्थापना दि. 30.10.1986 या वर्षी झाली तेव्हा त्यांनी फक्त रु 25000 भागभांडवल आणि 100 रु दर्शनी मूल्याचे भाग विकून संस्थेच्या व्यवहारास त्यावेळी संस्थेचे मुख्य प्रवर्तक म्हणून श्री. वसंत रावजी शिंदे यांनी कारभार सांभाळला त्यावेळी प्रथम अध्यक्ष होण्याचा मान श्री प्रल्हाद नारायणराव तेल्हारकर यांना मिळाला संस्था उदयास आली तेव्हा सभासद संख्या 250 एकातीत रवतीत होती.

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संस्थेचे मुख्य उद्देश...

① समाज सेवा

② सर्व सामान्य लोकांच्या आर्थिक गरजा पुर्ण करण्यासाठी कर्ज पुरवठा करणे.

③ लोकांना योग्य व उत्कृष्ट सेवा पुरविणे

④ जमलेला पतसंस्थेविषयी माहिती शोधणे व त्यांच्या मनात संस्थेविषयी विश्वास निर्माण करणे.

⑤ प्रदेशातील लोकांच्या आर्थिक विकास घडवुन आणणे.

SMART

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura(Rly). Dist.Buldana

Department of Commerce

Bank of India

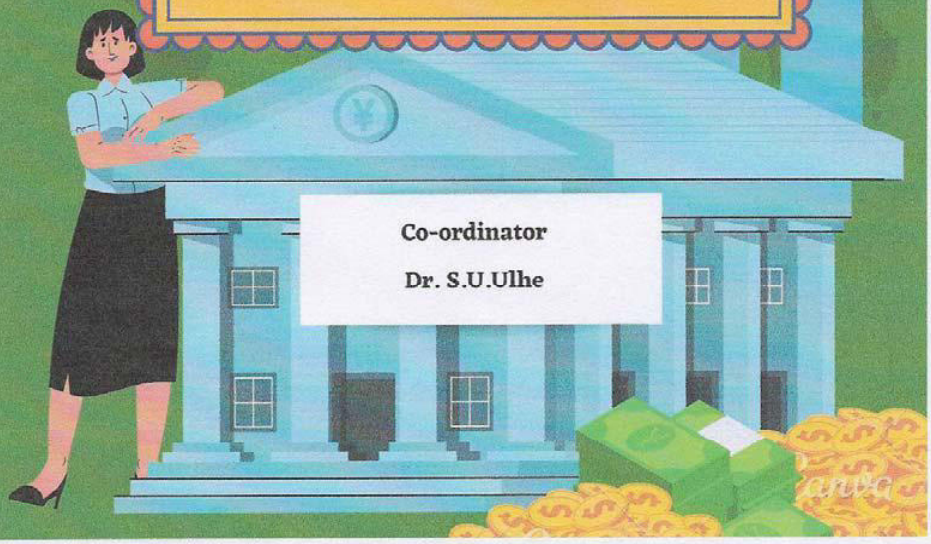
Branch Nandura

Project Report on Bank of India

2021-22

Name: Mahakal Abhishek Prakash

Class: B.Com. III



Co-ordinator

Dr. S.U.Ulhe

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura(Rly). Dist.Buldana

Department of Commerce

CERTIFICATE

2021-22

This is to certify that Mahakal Abhishek Prakash of B.Com. III Year has Successfully completed a project entitled study on functioning of Bank of India, Branch Nandura, Under my guidance during session 2021-2022.

Dr. S.U. Ulhe
Co-ordinator & Head

Dr. Alka A. Mankar
Principal

Page No. Date :

* अनुक्रमणिका *

1) प्रस्तावना

2) परिचय

3) बँकेची कामे

4) बँकेचा इतिहास

5) लॉकर सुविधा

6) Atm ची संकल्पना

7) शैक्षणिक कर्ज

8) इलेक्ट्रॉनिक कनेक्शन सिस्टीम

9) निष्कर्ष

Page No. Date :

मला सादर प्रकल्प अहवाल सादर करत असताना अत्यंत आनंद होत आहे. व वाणिज्य शाखेचे प्रमुख असलेले आणि ई. कॉमर्स विषयाशी संबंधित असलेले प्रा. संजय उल्हे सर यांच्या मार्गदर्शनाने व त्यांनी आम्हाला "बँक ऑफ इंडिया" या शाखेला भेटीकरिता घेऊन गेले व त्याच्याच लाभ आम्हाला सादर प्रकल्प तयार करण्यास झाला.

आम्ही बँक ऑफ इंडिया या बँकेला दि या दिवशी भेट दिली तिथे गेल्यानंतर आदरनीय मार्गदर्शक केले. त्यांनी आम्हाला बँकमधील कर्मचाऱ्यांची कशाप्रकारचे कार्य करतो हे थोडक्यात समजावून सांगीतले. त्याचप्रमाणे त्यांनी विविध डेबीटबद्दल मार्गदर्शन केले की. त्याचप्रमाणे आधुनिक बँकिंग सेवा तसेच ई. मोबाईल बँकिंग याबाबतच्या सेवांबद्दल माहिती दिली.

तसेच त्याच्याबद्दल उपलब्ध असलेली लॉकरची सुविधा कशा प्रकारे कार्यरत आहे. याची माहिती त्यांनी आम्हा विद्यार्थ्यांना दिली.

या सर्व माहितीच्या आधारे मी हा प्रकल्प अहवाल तयार केला आहे या अहवालात

ACADEMIC YEAR 2021-2022

(STUDENTS UNDERTAKING FIELD VISITS)

Permission

Date:2/01/2022

To,

The Principal

Shri Pundlik Maharaj Mahavidyalaya,

Nandura(Rly).Dist.Buldhana

Subject-Request for permission to organize One day Field visit on 5 th Jan. 2022.

Respected Sir.

The Department of Botany would like to arrange One Field Visit for all B.Sc. Students on 5th Jan.2022. We humbly request you to kindly grant permission for visit.

Thanking you in anticipation.

Miss. Supriya Gedam

Co-ordinator

Assistant Professor
Department of Botany
Shri Pundlik Maharaj Mahavidyalaya
Nandura(Rly) Dist. Buldana(M.S.)

Dr. S. W. Dighe

Head, Dept. of Botany

Head
Department of Botany
Shri. Pundlik Maharaj Mahavidyalaya
Nandura (Rly) Dist Buldana

Permitted

2/1/22

Shri Shivaji Education Society Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura Rly, Dist. Buldana

NAAC Reaccredited 'C' Grade

Department of Botany

Date- 01/01/2022

Notice

All the students of B.Sc. are here by informed that Department of Botany is organized a One Day Field Visit on 05/01/2022 for collection of fungal and microbial diseases on plant.

SBgedam

Organizing Secretory

Supriya B. Gedam

Assistant Professor
Department of Botany
Shri Pundlik Maharaj Mahavidyalaya
Nandura(Rly) Dist. Buldana(M.S.)

Dr. S. W. Dighe

Head

Dept. of Botany

Head
Department of Botany
Shri. Pundlik Maharaj Mahavidyalaya
Nandura (Rly) Dist Buldana

UNDERTAKING FORM

Date:4/1/2022

To,

The Principal,

Shri Pundlik Maharaj Mahavidyalaya, Nandura,

Rly, Dist. Buldana-443404.

Subject: Submission of undertaking form.

Respected Sir,

I Mr./ Mrs.....Ravindra Khapare..... parents of.....Anjali R. Khapare..... studying in ...B.Sc.I...at Shri Pundlik Maharaj Mahavidyalaya, Nandura Rly., Undersigned that my son/ Daughter participation in **One Day Field Visit on Date 5/1/2022** Organized by Department of Botany . I have no objection of my son/ daughter participation in this competition.

Ravindra

Parent's signature

A. R. Khapare

Student signature

Name of Parents:...Ravindra Khapare.....

Address:.....Nandura.....

Contact Number:.....7499754345.....

Departure Time:.....10.:.a.m.:.....

UNDERTAKING FORM

Date:4/1/2022

To,

The Principal,

Shri Pundlik Maharaj Mahavidyalaya, Nandura,

Rly, Dist. Buldana-443404.

Subject: Submission of undertaking form.

Respected Sir,

I Mr./ Mrs. Ravindra Khapare parents of Anjali R. Khapare studying in B.Sc.I at Shri Pundlik Maharaj Mahavidyalaya, Nandura Rly., Undersigned that my son/ Daughter participation in **One Day Field Visit on Date 5/1/2022** Organized by Department of Botany . I have no objection of my son/ daughter participation in this competition.

Ravindra

Parent's signature

A. R. Khapare

Student signature

Name of Parents: Ravindra Khapare

Address: Nandura

Contact Number: 7499754345

Departure Time: 10 a.m.

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura (Rly.)
Dist. Buldhana (MS)

Department of Botany

List of Students

Class: B. Sc. 1st

Name of Activity: One Day Field Visit (05/01/2022)

Sr. no.	Name of Student
1	Khan Rahil Ahmed Zakir Khan
2	Khan Sameea Parveen Taslim
3	Khan Sayema Parveen Firoz
4	Khan Sumaiya Parveen Firoz
5	Khande Rupali Arun
6	Khanzode Vishal Gajanan
7	Khapare Anjali Ravindra
8	Kharate Ganesh Eshwar
9	Kismatullah Shaikh Fardin Shaikh
10	Mathe Aditi Supada
11	Mehasare Aditya Sanjay
12	Mirge Siddhesh Gopal
13	Mobin A Moeen A
14	Mohammad Gulsanober Rafique
15	Mundhe Gaurav Sanjay
16	Nasir Mohammad Ameen Shaikh
17	Nasir Najmussahar Mohd

18	Nasiroddin Mohammad Talha
19	Nazim Mohammad Muzammil Mohammad
20	Pachpor Shivam Vitthal
21	PARDHI SHANKAR HARIDAS
22	Rabbani Shaikh Aamir Shaikh
23	Raheman Shaikh Rizwan Shaikh
24	Rahemani Khan Rijwan Khan Abuzar
25	Rajput Aarti Anilsing
26	Saeed Mehrish Tabassum Shaikh
27	Saleem Mohd Sameer Abdul
28	Sarbhukan Atharva Sanjay
29	Shah Aslam Shah Arif
30	Shah Saqlain Shah Saleem
31	Shah Tanzeem Shah Rasool
32	Shah Ubed Shah Maula
33	Shaikh Afzal Shaikh Aslam
34	Shaikh Misbah Gul Mujib
35	Shaikh Mohammad Faisal Mohammad Shakeel
36	Shaikh Mohd Kaleem Mahmood
37	Shaikh Tanzila Iram Hasan
38	Shakil Shaikh Sahil Shaikh
39	Shakir Aadil Umar
40	Shelke Kalyani Vijay
41	Sk A Naved Idulamin
42	Syed Alzama Firdous Syed Sajid

43	Syed Mahjabeen Firozoddin
44	Syed Nashra Farheen Syed Ansaroddin
45	Syed Sariya Kausar Syed Zameer
46	Syed Syed Nazar Zafar
47	Tayade Shashikant Shital
48	Tayde Khushi Rajesh
49	Thakre Pratik Saherao
50	Uddin Tanveeruddin Saeed
51	Ugale Akash Madhukar
52	Wagh Swapnil Gajanan
53	Wakeel Mohammad Waqar Shahid Abdul
54	Wankhade Arati Parmeshwar
55	Waseem Raja Mohammad Kazim Naved Mohammad
56	Yunus Intesham Husain Mohammad
57	Yusuf Arshiya Tabassum Mohammad

Sagadam
Assistant Professor
Department of Botany
Pundlik Maharaj Mahavidyalaya
Nandura(Rly) Dist. Buldana(M.S.)

Dighe
Dr. S. W. Dighe
Head
Department of Botany
Shri. Pundlik Maharaj Mahavidyalaya
Nandura (Rly) Dist Buldana

One Day Field Visit

Date- 06-01-2022

8. Name of activity- One day Field Visit

The objective of field visit

- To get practical knowledge
- To get climatic condition
- To collect plants and identify in natural habitat

The Botany department was conducted one day field visit for collection of fungal and microbial diseases. Crop field were selected for collection. Visit were arranged for all B.Sc. student on dated 05- 01-2022. Total 57 students visit the field and collected a sample. The students get exposed to plant kingdom in natural habitat. The students get practical knowledge about different varieties of plants and collected different fungal and microbial diseases. Students get knowledge about climatic conditions which suits the growth of different species of plant, trees and crops.

SBgedam

Prof. Supriya Gedam

Coordinator

Assistant Professor
Department of Botany
Shri Pundlik Maharaj Mahavidyalaya
Nandura(Rly) Dist. Buldana(M.S.)

Permission

Date:20/03/2022

To,

The Principal

Shri Pundlik Maharaj Mahavidyalaya,

Nandura(Rly).Dist.Buldhana

Subject-Request for permission to organize One day Visit to Punjabrao Krushi Vidyapith at Akolaon 31 st March 2022.

Respected Sir

The Department of Botany would like to arrange One day Visit to Punjabrao Krushi Vidyapith at Akola on 31 st March 2022. We humbly request you to kindly grant permission to organize this event.

Thanking you in anticipation.

Miss. Sunanda Dekate

Co-ordinator

Assistant Professor
Department of Botany
Shri Pundlik Maharaj Mahavidyalaya
Nandura(Rly) Dist. Buldana(M.S.)

Dr. S. W. Dighe

Head, Dept. of Botany

Head
Department of Botany
Shri. Pundlik Maharaj Mahavidyalaya
Nandura (Rly) Dist Buldana

Permitted

20/3/22

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya Nandura

Department of Botany

Date :25/03/2022

Notice

All the students of B.Sc. are hereby informed that Department of Botany has organized **PKV Lab Visit at the Akola** on date 31/03/2022. So Please give your name to the respective teacher before 31/03/2022 .Kindly note that.

Co-ordinator

Assistant Professor
Department of Botany
Shri Pundlik Maharaj Mahavidyalaya
Nandura(Rly) Dist. Buldana(M.S.)

Dr. S. W. Dighe

Head

Department of Botany

Head
Department of Botany
Shri. Pundlik Maharaj Mahavidyalaya
Nandura (Rly) Dist Buldana

Shri Shivaji Education Society Amravati's
Shri Pundlik Maharaj Mahavidyalaya Nandura(Rly)443404
Dist: Buldhana
NAAC C

Jr. College Index No.J04.10.002/902 Sr.College.Index No.311
E Mail:- clg_nan_spm@ssesa.org Web site:-www.spmnandura.org
spmcollegendr@gmail.com Udise-Code: 27041004023

Founder President: Dr.Punjabrao Alias Bhausaheb Deshmukh M.A.D Phil,L.L.D. Bar at law
President Shri. Harshvardhan P. Deshmukh
Principal Dr. A.A. Mankar 9011583381

Outward No: SPM/NDR/SR/ 433 /2022 Date:- 26 /03 /2022

To,
The Head of the Department,
Molecular Biology,
P.K.V.
Akola

Sub:- Permission to visit your departmental lab.

Sir,

Our institute is engaged in teaching science faculty which is consist of Botany as a major subject.Our Botany department including students(50) & staff(02) wish to visit your Molecular Biology Laboratory.The tentative date of visit will be 31st March.

You are humbly requested to grant us the permission for the same visit.

Thanking you,

Yours

(Dr.A.A.Mankar)
कार्यकारी प्राचार्य
श्री पुंडलीक महाराज महा.नादुरा

Student has visited the lab

31/3
(M.P. MOHARIL)

Shri Shivaji Education Society Amravati's
Shri Pundlik Maharaj Mahavidyalaya Nandura(Rly)443404
Dist: Buldhana
NAAC C

Jr. College Index No.J04.10.002/902 Sr.College.Index No.311
E Mail:- clg_nan_spm@ssesa.org Web site:-www.spmnandura.org
spmcollegendr@gmail.com Udise-Code: 27041004023

Founder President: Dr.Punjabrao Alias Bhausaheb Deshmukh M.A.D Phil,L.L.D. Bar at law
President Shri. Harshvardhan P. Deshmukh
Principal Dr. A.A. Mankar 9011583381

Outward No: SPM/NDR/SR/ 432/2022 Date:- 26 /03 /2022

To,
The Head of the Department,
Plant Tissue Culture,
P.K.V.
Akola

Sub:- Permission to visit your departmental lab.

Sir,

Our institute is engaged in teaching science faculty which is consist of Botany as a major subject.Our Botany department including students(50) & staff(02) wish to visit your Laboratory.The tentative date of visit will be 31st March.

You are humbly requested to grant us the permission for the same visit.

Thanking you,

Yours

(Dr.A.A.Mankar)

कार्यकारी प्राचार्य
श्री पुंडलीक महाराज महा.नादुरा

31/3/22

UNDERTAKING FORM

Date:30 /03/2022

To,

The Principal,

Shri Pundlik Maharaj Mahavidyalaya, Nandura,

Rly, Dist. Buldana-443404.

Subject: Submission of undertaking form.

Respected Sir,

I Mr./ Mrs. Shaikh Haroon ..... parents of ..... Rozina Haroon ..... studying in ... BSc I ..... at Shri Pundlik Maharaj Mahavidyalaya, Nandura Rly., Undersigned that my son/ Daughter participation in **PKV Lab Visit at Akola on Date 31/03/2022** Organized by Department of Botany . I have no objection of my son/ daughter participation in this competition.

Parent's signature

Student signature

Name of Parents: Shaikh Haroon

Address: Nandura Near Masjid

Contact Number: 9860450703

Departure Time: 8:00 AM

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura (Rly.)
Dist. Buldhana (MS)

Department of Botany

List of Students

Class: B. Sc. 1st

Name of Activity: One Day Field Visit to PKV (31/03/2022)

Sr.No.	Student Name
1	Aarif Saleha Tabassum Mohammad
2	Abdul Faizan Rahman
3	Aejazoddin Danish Mijazoddin
4	Ajaz Insharah Aafreen Mohammad
5	Alikhan Taoqueer Alikhan Azhar
6	AMBHORE VRUSHALI SURESH
7	Arif Shaikh Umair Shaikh
8	Asger Saiyyed Hamza Saiyyed
9	Asif Shaikh Arif Shaikh
10	Attarkar Akash Sunil
11	Baig Arbina Bi Asgar
12	Baig Ibrahim Kalim
13	Bawaskar Dipak Subhash
14	Bhagat Akash Shivdas
15	Bhagat Ashwini Nimbaji
16	Bhagat Ishwar Shankar
17	Bhagat Pallavi Janardhan

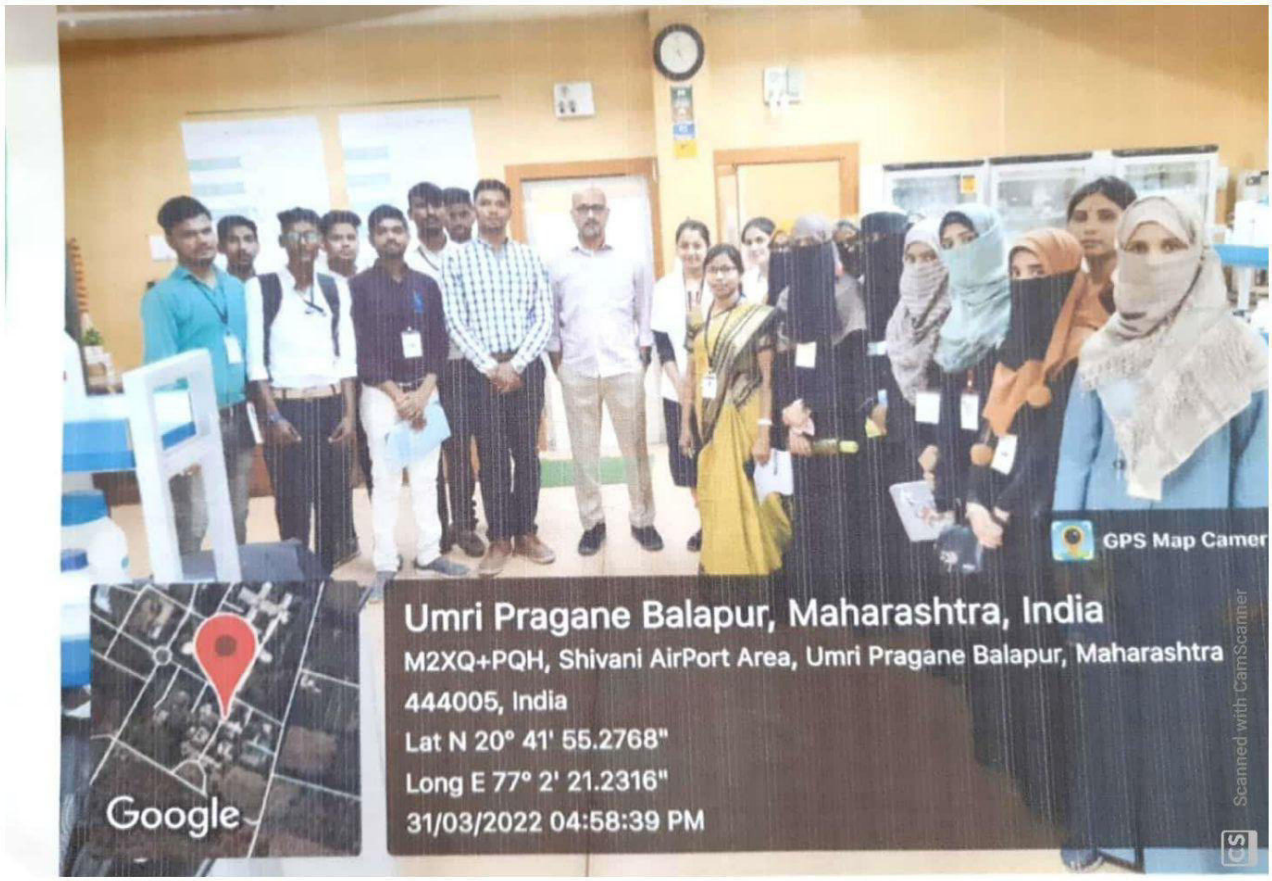
18	Bhagat Pawan Shivdas
19	Bhagat Siddheshwar Gopal
20	Bichare Akshay Lahu
21	Bismillah Uzma Aafreen Shaikh
22	Bochare Abhishek Ganesh
23	Bochare Pavan Bhagwan
24	Chopade Prathamesh Anil
25	Dorkar Vivek Ananta
26	Erulkar Suraj Vishnu
27	Farooque Aqsa Jabeen Mohd
28	Gafir Lubna Iram Abdul
29	Gaikwad Swapnil Dnyaneshwar
30	Gawhad Pratik Vishwasrao
31	Haroon Rozina Shaikh
32	Husain Afsha Kausar Zakir
33	Ingle Vaishali Madhukar
34	Iqbal Zainab Tabassum Mohammad
35	Isak Shaikh Shahid Sheikh
36	Jabir Shanin Akhtar Mohammad
37	Jaware Yogita Suryakant
38	Kalmegh Aditya Subhash
39	Kate Abhishek Bhagwat
40	Khan Aakib Khan Zabiullah
41	Khan Alfiya Meraj Akbar
42	Khan Aliya Sadaf Izzatulla

43	Khan Atique Ahmad Khan Sarfaraz
44	Khan Bushra Midhat Nasir
45	Khan Firoz Khan Hamid
46	Khan Humera Firdous Aarif
47	Khan Lubna Tahsin Ismail
48	Khan Mohsinullah Khan Tahsinullah
49	Khan Mukarram Khan Yusuf Khan
50	Khan Naseha Nausheen Sher

Assistant Professor
Department of Botany
Shri Pundlik Maharaj Mahavidyalaya
Nandura(Rly) Dist. Buldana(M.S.)

Dr. S. W. Dighe
Head
Department of Botany
Shri. Pundlik Maharaj Mahavidyalaya
Nandura (Rly) Dist Buldana

One Day Visit to PDAU, Akola



Date- 02-04-2022

14. Name of activity- PKV Lab Visit

Date: 31 March 2022

Course: B.Sc

Number of Students: 50

Objective:

- main objective of lab visit is to provide students an insight of the practical applications of what they are learning in theory because; theoretical knowledge is not enough for making a good professional career.
- With an aim to go beyond academics, Lab visit provides student a practical perspective on the world of work. It provides students with an opportunity to learn practically through interaction and working methods.
- Educational visits are conducted with an objective of providing students functional opportunity in different sectors.

Report-

Department of Botany provided a golden opportunity to its students of B.Sc. First year students to visit Biotechnology Laboratory at Punjabrao Krushi Vidyapeeth, Akola. on 31th March 2022. Overall 50 Students of B.Sc.I year and madam visited the lab. Research Scholars from Lab shared their knowledge with the students and explained about the various instrument present in the lab like spectrophotometer, centrifuge, autoclave, Tissue culture lab etc. students showed their interests and actively participated in the visit. During the visit, students have closely observed the Research Laboratory of Agriculture Botany, Biotechnology, Plant Breeding, and Genetic Modification. Students also observe detail the Equipments & their working like, PCR, Gel Electrophoresis, Cold Centrifuge, Fluorescence Microscope, Gel Documentation, Culture media preparation, Plant Tissue Culture & technique. Dr. Suchita Dighe (HOD) of Botany Department and Prof. Sunanda Dekate (Assistant Professor) Department of Botany took the initiative in organizing the educational visit and also accompanied the students along with. It was an interactive forum for exchange of new knowledge and opportunities for stimulating young minds.

Dekate

Prof. Sunanda Dekate

Coordinator

Assistant Professor
Department of Botany
Shri Pundlik M... ...j Mahavidyalaya
Nandura(Rly) Dist. Buldana(M.S.)

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura

Reaccredited by NAAC with 'C' grade

****

25/04/2022

Department of Economics & Commerce

Notice

All the students of Commerce are hereby informed that a study tour is organized on 28/04/2022 to C.A. Akshay Laddha and Associates Office'.

Note: Uniform and I-card is compulsory for all the students

Dr. Alka A. Mankar
Co-Ordinator

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura

Reaccredited by NAAC with 'C' grade

****

28/04/2022

Department of Economics & Commerce

Academic Year 2021-2022

Report on visit to CA. Akshay Laddha and Associates Office.

Department of Economics & Commerce has organized one day visit to Akshay Laddha and Associates Office on 28/04/2022.

Objectives:

- To understand basics of accountancy.
- To make them aware about various government mandates and audits.

Mr. Akshay Laddha and his team guided students on Maintenance of the accounts and preparation of financial statements, how to maintain the accounts and what precautions can be taken while handling accounts and what are the roles and responsibilities of CA. Total 25 students benefitted by this visit. Dr. Ulhe coordinated this activity

Dr. Alka A. Meshram
Co-Ordinator

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura

NAAC Reaccredited with 'C' Grade

ISO 9001:2015

28/04/2022

Academic Year 2021-2022

Department of Commerce

Name of Program: Visit to Akshay Laddha & Associates (Chartered Accountant), Nandura

Sr No	Name of Students	Class	Signature
1	pooja Balkrushna Ghanokar	B. com II year	Ghanokar
2)	Rupali Ramesh Ghanokar	B. com II year	R. R. Ghanokar
3)	Vaishnvi M. shingote	B. com II year	V. M. shingote
4)	Vaishnvi R. shingote	B. com II year	V. R. shingote
5)	shraddha A. Dhawade	B. com II year	S. A. Dhawade
6)	pooja A Dhurandhar	B. com II year	Dhurandhar.
7	Durga S Raut	B. Com II year	D. S. Raut
	~~Vaibhav D. Damble~~		
8	Vaibhav D. Damble	B. Com II year	[illegible]
9)	Dnyaneshwar S. R.	B. Com 2nd	Rabchande
10)	Vikas S. Bhagewar	B. Com 2nd	V. S. Bhagewar
11	Nanddev G. Ghule	B. Com 2nd	Ghule
12	Bhushan S. Verulkar	B. Com 2nd	B.S.Verulkar
13	Shivdas M. Belokar	B. Com 2nd	[illegible]
14	Suraj R. Junare	B. Com 2nd	[illegible]
15)	Shubham P. Nimkarde	B. Com I	Nimkarde
16	Dattatray m Gond	B. Com I	D.Gond
17	Ankush Vitthal Bachare	B. com I	A.V. Bachare
18	puja Tejerao wakade	B. com III	P. J. wakade
19)	Laxmi R. Ghogale	B. com III	L. R. Ghogale
20)	Nikita G. Ghanokar	B. COM III	N. G. Ghanokar
21)	Gaurav Arun Rautraye	B. com III	G.Rautraye
22)	yogesh mahadeo mathe	B. com III	ymathe
23)	Swapnil Kailas Kale	B. com III	Kale
24)	Hariom Sanjay Thombre	B. com III	H.Thombre.
25)	Akash Ramdas Ghule	B. COM III	Ghule

Dr. Alka R. Maskar
Co-Ordinator

Visit to CA. Akshay Laddha and associate's office (28/04/2022)

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura

Reaccredited by NAAC with 'C' grade

****

Department of Economics & Commerce

Academic Year 2021-2022

Date: 22/04/2022

Notice

All the students of Commerce are hereby informed that a study tour is organized for B.Com III students on 25/04/2022 to Institute of computer management (ICM) Nandura.

Note: Uniform and I-card is compulsory for all the students

Dr. Alka A. Mesker
Co-Ordinator

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura

Reaccredited by NAAC with 'C' grade

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25/04/2022

Department of Economics & Commerce

Academic Year 2021-2022

Report on Visit to Institute of Computer Management (ICM)

Department of Commerce has organized one day visit to institute of computer management(icm) on 25/04/2022.main objective behind organizing this visit to know various operations in technology. Mr. Deshmukh guided students and appeal students to use more technology to cope up with todays need. Total 32 students benefitted by this activity.Dr. Ulhe coordinated this activity

SEAL

Dr. Alka A. Masker
Co-Ordinator

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura

NAAC Reaccredited with 'C' Grade

ISO 9001:2015

Academic Year 2021-2022

Date- 25/04/2022

Department of Commerce

Name of Program: visit to I. C. M. computer Nandura

Sr No	Name of Students	Class	Signature
1	Vedant uttam Bagade	B.com III	Bagade
2	Rushikesh. R. Deshmukh	B. com III, Sem [VI]	R.R.deshmukh
3	Harfom Sanjay Thombre	B.com III Sem VI	H.Thombre.
4	Pratiksha waman khandare	B. Com III sem VI	P.khandare.
5	Alka Rameshwar Sapkal	B.com III sem VI	A.Sapkal.
6	puja Tejrao wakode	B.com III sem VI	P.T.wakode.
7	Vaishnavi Nambaji Solanke	B.com III Sem VI	V.Solanke
8	Kanchal Ramdas Bajare	B.com III sem VI	K.R.Bajare
9	Shital Ganesh Badhe	B.com III sem VI	S.G.Badhe
10	mukta vishnu Shingote	B. com III sem VI	M.Shingote
11	Nikita Gajanan Ghanokar	B.com III Sem VI	N.G. Ghanokar.
12	Aarti Jagdevchandan	B.com III sem VI	AC
13	Gayatri prabhakr Umbarkar	B. com III sem VI	G.umbarkar
14	Vijaya sahadeo kolhe	B.com III sem VI	V.kolhe
15	Shraddha P. Sabe	B.com III sem VI	Sabe
16	Priyanka V. Ingle	B.com III sem VI	P.Ingle
17	Manisha H. wakode	B.com III Sem VI	M.wakode
18	Kavita V. Tayde	B.com III sem VI	K.Tayde
19	Pallavi J. Feran	B.com III Sem VI	P.J.Feran
20	Laxmi R. Ghogale	B.com III sem VI	L.R. Ghogale
21	chhaya N. Dhade	B.com III Sem VI	C.N. Dhade
22	Priyanka D. Bake	B.com III Sem VI	P.Bake
23	Puja Rambhau Ghate	B.com III sem VI	P.Ghate
24	Shraddha Shrikrushna Kharate	B.com III sem VI	S.S.Kharate.
25	Vaibhav Devidas Damre	B.com II sem	V.Damre
26	Bhushan S. Varankar	B.Com II Sem IV	B.S.Varankar
27	Dnyaneshwar S. Rakhonde	B.Com IInd Sem IV	Rakhonde
28	Suraj Rajendra Junare	B.com IInd sem IV	S.R.Junare
29	Namdev Dnyandev Shule	B.com II sem IV	Shule
30	Shivdas madhukar Belokar	B.com II sem IV	S.Belokar.
31	Pallavi Wasudeo Shejole	B.com III sem VI	P.Shejole
32	Kiran Raju Khandare	B.com III sem VI	[illegible]

Dr. Alka A. Masker

Co-Ordinator

ICM Visit (25/04/2022)

ICM Visit (25/04/2022)

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura

Reaccredited by NAAC with 'C' grade

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27/03/2022

Department of Economics & Commerce

Notice

All the students of Arts and Commerce are hereby informed that a industrial tour is organized on 31/03/2022 to 'Anita Gruh Udyog, Nandura'.

Note: Uniform and I-card is compulsory for all the students

Time:8.00 AM

SEAL

Dr. Alka A. Mankar
Co-Ordinator

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura

Reaccredited by NAAC with 'C' grade

****

31/03/2022

Department of Economics & Commerce

Report on Industrial Visit

Department of Economics & Commerce has organized one day industrial visit to Anita Gruh Udyog, Nandura on 31 March 2022.

Objectives:

- To make students aware of entrepreneurship.
- To give them knowledge about small scale industry establishment.

Mr. Arun Bendarkar, Director and Chairman of Anita Gruh Udyog, Nandura, who is also one of the prominent alumni of our institute, guided students regarding entrepreneurship.He motivated students for setting small scale industry and he explained all students how to maintain quality of food products. He also told students the secrets of a successful entrepreneur. Students actively participated in the discussion.Mr. Bhushan Verulakar expressed thanks to Mr.Arun Bendarkar for his guidance and valuable time.Dr. Mankar coordinated the program. Total 16 students participated in this visit.

SEAL

Dr. Alka A. Mankar
Co-Ordinator

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura

Reaccredited by NAAC with 'C' grade

Date: 31/3/22

Academic Year: 2021-2022

Name of Program: Industrial Visit BA

Sr. No.	Name of student	Class	Signature
1)	Sanjivani. D. mahale	B.A. II	
2)	Vishakha Prakash Ingle	B.A. II	
3)	Yamuna Kailash Ingle	B.A. II	
4)	Kiran. S. Tayade.	B.A. II	
5)	Rushikesh B. Bodkhe	B.A. II	
6)	Pavan G. Bodade	B.A. II	
7)	Shatrughna Ghule	B.A. II	
8)	Vijay Rajmesh Kalase	B.A. II	
9)	Vinay Dadarao Dongardive	B.A. II	
10)	Sandesh Ankush Dhole	B.A. II	
11)	Pradwal Surendra Tayde	B.A. II	
12)	Pavan A. Dhole	B.A. II	
13)	Abhishek Vasanta Hade	B.A. II	
14)	Roshan mahendra Nimbalkar	B.A. II	
15)	Ananta Sanjay Tayde.	B.A. II	
16)	Amol Devram Bhatkar	B.A. I	
17)	Amol Pundlik Tayde.	B.A I	
18)	Vishal Sunil Gatkar	B.A II	
19)	Akshay. S. Ingle	B.A II	
20)	M. muzammil A majhar	B.A II	

Dr. Alka A. Mankar
Head of Department Economics

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura

Reaccredited by NAAC with 'C' grade

Date: 31/3/22

Academic Year: 2021-2022

Name of Program: Industrial visit B.com

Sr. No.	Name of student	Class	Signature
1)	Priyanka vijay Ingle	B.com sem VI	P.V. Ingle
2)	Shraddha Purushottam Sabe	B.com II sem III	Sabe
3)	Puja Ashok Dhurandhar.	B.com II	P.Dhurandhar
4)	Durga Mahadev Bopale	B.com II sem III	D.M. Bopale
5)	Durgashrikrushna Raut	B.com II sem III	D.S. Raut
6)	Nikita vilas Gawande	B.com sem IV	N.V.G
7)	Vikas santosh Bhagewar	B.com II. S. IV	V.S. Bhagewar
8)	Suraj Rajendra Junare	B.com II. III	S.R. Junare
9)	Vaibhav Devidas Damle	B.com II	[illegible]
10)	Namdev gyandev ghule	B.com II	~~Nghule~~ Ghule
11)	~~Sugar~~		
12)	Bhushan sunil Verulkar	B.com II	Bhus. B.S.Verulkar
13)	Akshay S. Vatkar	B.A II	[illegible]
14)	pooja Balkrushna Ghandkar	B.com II	Ghandkar
15)	Vaishnavi Mahadev shingote	B.com II	V.M. shingote.
16)	Vaishnavi Rajedra shingote	B.com II	V.R. shingote

Dr. Alka A. Maskar
Co-Ordinator

Visit to Anita Gruh Udyog (31/03/2022)

INTERNSHIP

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura (Rly.)
Dist. Buldhana (MS)

Department of Economics
Academic Year 2021-2022
Class: B. A. IInd year

Duration of Internship – One Month
Place of Internship- Mauliputra Producer Company Ltd. Nandura

Sr. No.	Name of Student
1	Abdul Muzammil Mazhar
2	Adhao Neha Manikrao
3	Adhao Nikita Sakharam
4	Ambekar Vedanti Vinod
5	Asalkar Sharda Shrikrushna
6	Bhide Neha Vijay
7	Bhopale Sudhakar Bhagwat
8	Bodade Pavan Gajanan
9	Bodade Vaishnavi Rameshwar
10	Bodkhe Rushikesh Bhaskar
11	Bonde Yogita Gajanan
12	Bramhane Anurag Dagdu
13	Chandak Harshad Rajesh
14	Chandankar Vaishali Rameshwar
15	Chopade Priti Bhagwat
16	Chopade Vaibhav Sunil
17	Daberao Durgadsing Mangalsing
18	Dabhade Chandrakant Santosh
19	Damare Puja Bhagvat
20	Dambelkar Puja Vinayak
21	Damre Nikita Nimbaji
22	Damre Pallavi Ninaji
23	Dandge Mohan Gopal
24	Deshmukh Gayatri Balasaheb
25	Dhole Pavan Avchit
26	Dhole Saurabh Ankush
27	Dhoran Rushikesh Shrikrushna
28	Diware Komal Arun
29	Diware Vaishnavi Vinod

30	Dongardive Vinay Dadarao
31	Galkar Vishal Sunil
32	Gawande Shubham Pandurang
33	Gayki Vivek Gajanan
34	Ghate Parasad Ganesh
35	Ghule Mahesh Laxman
36	Ghule Shatrughna Sunil

Dr. Alka A. Mankar
Head of Department Economics

S.P.M. College, Nandura (Rly.) SEAL

माऊलीपुत्र प्रोडयुसर कंपनी लि.

माळेगांव (गोंड) ता. नांदुरा जि. बुलडाणा पिन : ४४३४०४

(N0- U01100MH2022PTC344333)

M : 9657374726, 9822831648 Email : mauliputrapcl@gmail.com

जा. क.

दिनांक 25-03-22

Certificate of Internship

This is to certify that Mr/Miss. **Bonde Yogita Gajanan** student of class B. A. II year, Shri Pundlik Maharaj Mahavidylaya, Nandura has successfully completed one month internship and training at our organization during 22/02/2022 to 20/03/2022.

During this period of internship, he/ she was found punctual and hardworking.

We wish him/her every success in future.

अध्यक्ष

माऊलीपुत्र प्रोडुसर कंपनी लि.

मालेगांव गोंड ता.नांदुरा जि.बुलडाणा

माऊलीपुत्र प्रोडयुसर कंपनी लि.

माळेगांव (गोंड) ता. नांदुरा जि. बुलडाणा पिन : ४४३४०४

(N0- U01100MH2022PTC344333)

M : 9657374726, 9822831648 Email : mauliputrapcl@gmail.com

जा. क्र.

दिनांक 25-03-22

Certificate of Internship

This is to certify that Mr/Miss. **Chopde Vaibhav Sunil** student of class B. A. II year, Shri Pundlik Maharaj Mahavidylaya, Nandura has successfully completed one month internship and training at our organization during 22/02/2022 to 20/03/2022.

During this period of internship, he/ she was found punctual and hardworking.

We wish him/her every success in future.

अध्यक्ष

माऊलीपुत्र प्रोडुसर कंपनी लि.

मालेगांव गोंड ता.नांदुरा जि.बुलडाणा

माऊलीपुत्र प्रोडयुसर कंपनी लि.

माळेगांव (गोंड) ता. नांदुरा जि. बुलडाणा पिन : ४४३४०४

(N0- U01100MH2022PTC344333)

M : 9657374726, 9822831648 Email : mauliputrapcl@gmail.com

जा. क्र.

दिनांक 25-03-22

Certificate of Internship

This is to certify that Mr/Miss. **Dongardive Vinay Dadarao** student of class B. A. II year, Shri Pundlik Maharaj Mahavidylaya, Nandura has successfully completed one month internship and training at our organization during 22/02/2022 to 20/03/2022.

During this period of internship, he/ she was found punctual and hardworking.

We wish him/her every success in future.

अध्यक्ष

माऊलीपुत्र प्रोडुसर कंपनी लि.

मालेगांव गोंड ता.नांदुरा जि.बुलडाणा

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura (Rly.)

Dist. Buldhana (MS)

Department of Economics

Academic Year 2021-2022

Class: B. A. IInd year

Duration of Internship – One Month

Place of Internship- Nandura Agro Farmer Producer Company Ltd.

1	Gujar Gaurav Ganesh
2	Gujar Vaishanvi Mahesh
3	Hade Abhishek Vasanta
4	Herode Sujata Vijay
5	Hiralkar Laxmi Purushottam
6	Hiwarale Samir Suresh
7	Hursal Shridhar Vijay
8	Ingle Akshay Siddharth
9	Ingle Anand Manoj
10	Ingle Ankita Bhanudas
11	Ingle Madhuri Manik
12	Ingle Pankaj Wasudeo
13	Ingle Punam Punjaji
14	Ingle Tejaswini Tejrao
15	Ingle Vaibhav Kailas
16	Ingle Vandana Kailas
17	Ingle Vikas Abhimanyu
18	Ingle Vishakha Prakash
19	JAWARE SAURAV VIJAY
20	KALE RUPALI PRAKASH
21	KARHE ANAND SHRIKRUSHNA
22	Katole Sakshi Gopal
23	Khandare Sachin Ashok
24	Kharate Gaurav Shrikrushna
25	Kharate Rushikesh Ashok
26	Kharate Shubham Rajendra
27	Kshirsagar Gopal Vijay
28	Lahase Vijay Ramesh
29	Lahudkar Gaurav Wasudev
30	MAHALE SANJIVANI DADARAO
31	Malode Yash Nitin

32	Mankar Anita Dilip
33	MANKAR GANESH VINOD
34	Mankar Mayuri Santosh
35	Mankar Nikita Sudhakar
36	Mankar Punam Madhukar
37	Medhe Atul Yogesh
38	Medhe Kiran Gajanan
39	Medhe Nagesh Siddharth
40	Medhe Sanghpal Manohar
41	Mohe Nikita Mahadeo
42	Mohole Yash Sanjay
43	More Pavan Tulshiram
44	Murhe Gayarti Dnyandeo

S.P.M. College, Nandura (M.S.) SEAL

Dr. Alka A. Mankar
Head of Department Economics

GSTIN : 27AAGCN1663H1ZE

नांदुरा ॲग्रो फार्मर प्रोडयुसर कंपनी लि.

रा .खुदावंतपूर (नांदुरा) ता. नांदुरा, जि. बुलडाणा पिन : ४४३४०४

रजि. नं. U01113MH2018PTC312752)

M : 9403662015 - 9420562826 Email : nanduraagrofarmerproducer.ltd@gmail.com

जा. क्र.

दिनांक 23-03-22

Certificate of Internship

This is to certify that Mr/Miss. **Ingle Vishakha Prakash** student of class B. A. II year, Shri Pundlik Maharaj Mahavidylaya, Nandura has successfully completed one month internship and training at our organization during 22/02/2022 to 20/03/2022.

During this period of internship, he/ she was found punctual and hardworking.

We wish him/her every success in future.

SEAL

अध्यक्ष सचिव

नांदुरा ॲग्रो फार्मर प्रोडयुसर कंपनी लि.

नांदुरा ता. नांदुरा जि. बुलडाणा

GSTIN : 27AAGCN1663H1ZE

नांदुरा ॲग्रो फार्मर प्रोडयुसर कंपनी लि.

रा .खुदावंतपूर (नांदुरा) ता. नांदुरा, जि. बुलडाणा पिन : ४४३४०४

रजि. नं. U01113MH2018PTC312752)

M : 9403662015 - 9420562826 Email : nanduraagrofarmerproducer.ltd@gmail.com

जा. क्र.

दिनांक 23-03-22

Certificate of Internship

This is to certify that Mr/Miss. **Khandare Sachin Ashok** student of class B. A. II year, Shri Pundlik Maharaj Mahavidylaya, Nandura has successfully completed one month internship and training at our organization during 22/02/2022 to 20/03/2022.

During this period of internship, he/ she was found punctual and hardworking.

We wish him/her every success in future.

SEAL

अध्यक्ष

सचिव

नांदुरा ॲग्रो ... कंपनी लि.

नांदुरा ता. ..., जि. बुलडाणा



Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura (Rly.)
Dist. Buldhana (MS)

Department of Economics
Academic Year 2021-2022
Class: B. A. III rd Year

Duration of Internship – One Month
Place of Internship- Rana Bakery, Nandura

Sr. No.	Name of Student
1	Ingle Aruna Manohar
2	Ingle Nayna Rajendra
3	Ingle Priya Gautam
4	Ingle Rupali Subhash
5	Jaware Satish Rajesh
6	Jaware Suraj Rajesh
7	Jumle Shubhangi Shrikrushna
8	Khan Abidkhan Ayyub
9	Khandare Divya Arjun
10	Khanzode Shubhangi Ambadas
11	Khatri Divya Vinod
12	Khond Vaishnavi Baliram
13	Mahore Pallavi Vinod
14	Majre Divya Nandkishor
15	Manaskar Bhagirath Uddhav
16	Mankar Mayur Raju
17	Mansute Bharati Narayan
18	Mansute Gauri Vasant
19	Mathe Suraj Shankar
20	More Ankita Ambadas
21	Nasurde Nikita Santosh
22	Navlakhe Akshay Vinod
23	Nirmal Minal Rajendra
24	Pahurkar Rajratna Gautam
25	Paraskar Vinayak Baliram
26	Pawar Anjali Rajesh
27	Pivaltkar Suresh Tukaram
28	Rakhonde Ananta Tulshiram
29	Ramekar Vaishali Rajesh
30	Raut Mansi Punjaji
31	Raut Vidya Ananta

32	Rothe Tulsi Nandkishor
33	Sabe Nikita Bhagawat
34	Sapkal Kiran Prabhakar
35	Satao Rajni Santosh
36	Shegokar Tushar Shrikrushna
37	Sonone Pallavi Sunil
38	Suryavanshi Sagar Pyarelal
39	Sushir Aarti Raghunath
40	Tayde Shubhangi Sunil

Dr. Alka A. Mankar
Head of Department Economics

S.P.M. College, Nandura (Rly.) SEAL

राणा बेकरी

फोन पी. पी. २२११६

"द्वारका शॉपींग कॉम्प्लेक्स" रेल्वे स्टेशन रोड नांदुरा.

दि. 23/08/2022

CERTIFICATE OF INTERNSHIP

THIS IS TO CERTIFY THAT MR/MISS. JAWRE SURAJ RAJESH STUDENT OF CLASS B. A. III YEAR, SHRI PUNDLIK MAHARAJ MAHAVIDYLAYA, NANDURA HAS SUCCESSFULLY COMPLETED ONE MONTH INTERNSHIP AND TRAINING AT OUR ORGANIZATION DURING 20/07/2022 TO 20/08/2022.

DURING THIS PERIOD OF INTERNSHIP, HE/ SHE WAS FOUND PUNCTUAL AND HARDWORKING.

WE WISH HIM/HER EVERY SUCCESS IN FUTURE.

राणा बेकरी
द्वारका कॉम्प्लेक्स, रेल्वे स्टेशन रोड
नांदुरा. ४३४०१ (०७२६५) २२२

राणा बेकरी

फोन पी. पी. २२११६

"द्वारका शॉपींग कॉम्प्लेक्स" रेल्वे स्टेशन रोड बांदुरा.

दि. 23/08/22

CERTIFICATE OF INTERNSHIP

THIS IS TO CERTIFY THAT MR/MISS. MAJRE DIVYA NANDKISHOR STUDENT OF CLASS B. A. III YEAR, SHRI PUNDLIK MAHARAJ MAHAVIDYLAYA, NANDURA HAS SUCCESSFULLY COMPLETED ONE MONTH INTERNSHIP AND TRAINING AT OUR ORGANIZATION DURING 20/07/2022 TO 20/08/2022.

DURING THIS PERIOD OF INTERNSHIP, HE/ SHE WAS FOUND PUNCTUAL AND HARDWORKING.

WE WISH HIM/HER EVERY SUCCESS IN FUTURE.

राणा बेकरी
द्वारका कॉम्प्लेक्स, रेल्वे स्टेशन रोड
बांदुरा. ४४४०१८(०७२६५) २२१

।।श्री।।

राणा बेकरी

फोन पी. पी. २२११६

"द्वारका शॉपींग कॉम्प्लेक्स" रेल्वे स्टेशन रोड बांदुरा.

दि.24/08/2022

CERTIFICATE OF INTERNSHIP

THIS IS TO CERTIFY THAT MR/MISS. MANKAR MAYUR RAJU STUDENT OF CLASS B. A. III YEAR, SHRI PUNDLIK MAHARAJ MAHAVIDYLAYA, NANDURA HAS SUCCESSFULLY COMPLETED ONE MONTH INTERNSHIP AND TRAINING AT OUR ORGANIZATION DURING 20/07/2022 TO 20/08/2022.

DURING THIS PERIOD OF INTERNSHIP, HE/ SHE WAS FOUND PUNCTUAL AND HARDWORKING.

WE WISH HIM/HER EVERY SUCCESS IN FUTURE.

राणा बेकरी
द्वारका कॉम्प्लेक्स, रेल्वे स्टेशन रोड,
बांदुरा. ४३४०४७(०७२६५) २२२

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura (Rly.)
Dist. Buldhana (MS)

Department of Economics
Academic Year 2021-2022

B. A. III internship list

Place of Internship: Bajaj Service, Nandura

Sr. No.	Name Of Student
1	Avachar Nayana Subhash
2	Babhulkar Shubhangi Bhikaji
3	Badhe Bharati Sunil
4	Badhe Vaishali Anil
5	Bathe Sharda Dashrath
6	Bathe Shraddha Anil
7	Bawaskar Vaishnavi Ashok
8	Bawaskar Vaishnavi Manohar
9	Bhojane Vaishnavi Gajanan
10	Borse Savita Samadhan
11	Bramhane Namrata Kadu
12	Chambhare Mukta Ramdas
13	Chandanshiv Vinayak Mahadev
14	Chavan Madhuri Sanjay
15	Chimkar Nikita Mahadeo
16	Dabhade Laxmi Sahdeo
17	Damre Kalyani Anil
18	Dange Vijaya Gopal
19	Dhavle Prajkta Anil
20	Dhole Ashwini Janardhan
21	Diware Prashant Govinda
22	Feran Roshan Shantosh
23	Gawande Swati Balu
24	Gawande Vaishnavi Vijay
25	Ghuye Sandesh Suresh
26	Gond Puja Shivadas
27	Gore Anjali Bhaskar
28	Hage Shital Vishnu
29	Hage Vaishnvi Sanjay
30	Ingle Aakansha Bhimrao

Dr. Aika A. Mankar
Head of Department Economics

S.P.M. College, Nandura (Rly.) SEAL

BAJAJ
SERVICE

Authorised Service Center
For Bajaj Auto Limited

M/S KISAN AUTOMOBILES
MALKAPUR ROAD, N. H. 6
NANDURA - 443 404
Dist. - Buldana
Tel.- (07279) 220774

Ref. No. _____

Date 20/8/22

CERTIFICATE OF INTERNSHIP

This is to certify that Mr/Miss. **Feran Roshan Santosh** student of class B. A. III year, Shri Pundlik Maharaj Mahavidylaya, Nandura has successfully completed one month internship and training at our organization during 20/07/2022 to 20/08/2022.

During this period of internship, he/ she was found punctual and hardworking.

We wish him/her every success in future.

KISAN AUTOMOBILES
Malkapur Road Nandura
Tq Nandura Dist Buldana

CST No.:-

MST No.:-

Shri Shivaji Education Society, Amravati's

Shri Pundlik Maharaj Mahavidyalaya, Nandura (Rly.)
Dist. Buldhana (MS)

Department of Commerce

B. Com 1st 2021-2022 Internship List

Place of Internship: Priydarshini Nagari Sahkari Patsanstha

Sr. No.	Name of Student
1	Bage Roshan Ganesh
2	Bakal Rutwik Namdeo
3	Bawaskar Subhash Ukharda
4	Bawaskar Vaibhav Ratan
5	Bawaskar Vishnu Gajanan
6	Bhagwat Pratik Vijay
7	Bhaturkar Shubham Chandrabhan
8	Bochare Ankush Vitthal
9	Bochare Pravin Manohar
10	Bochare Ramesh Ganesh
11	Bochare Ramesh Ganesh
12	Chavhan Vaishnavi Krushnrao
13	Chimkar Sagar Subhash
14	Dandage Atul Prakash
15	Dandage Nagesh Bhimrao
16	Dhande Abhijit Gajanan
17	Diware Abhijit Subhash
18	Diware Shivshankar Shaligram
19	Diware Yuvraj Shankar

20	Futwaik Prem Sunil
21	Gade Roshan Kadu
22	Ghatte Pruthviraj Gajendra
23	Gond Dattatray Manohar
24	Hage Meerabai Ninaji
25	Ingle Kuldip Mohan
26	Ingle Prafull Rajesh
27	Jawanjal Vaibhav Samadhan
28	Kaulkar Arati Sunil
29	Khanderao Roshan Yashawant
30	Lahudkar Sarvesh Rajendra
31	Lahudkar Sushant Narayan
32	Mudholkar Avnika Vijay
33	Murhe Aniket Gopal
34	Nimkarde Shubham Prabhakar
35	Nitone Priya Ravindra
36	Punde Aniket Baliram
37	Ramekar Rohan Anil
38	Sardar Pushpak Sanjay
39	Sardar Rutuvik Duryodhan
40	Sarode Umesh Shankar
41	Satao Krushana Rambhau
42	Surpatne Ashish Ananta
43	Sushir Rupali Rajaram
44	Thakare Atul Shriram
45	Thakur Anand Dilipsingh

46	Titare Vaishnavi Purushottam
47	Titre Bhagyashri Vishnu
48	Umbarkar Vaibhav Vasanta
49	Waghmare Chetan Ananta
50	Wakode Aadity Dipak
51	Wakte Abhishek Govinda
52	Wankhade Ajay Sahebrao

Dr. S. U. Ulhe

S.P.M. College, Nandura (Rly.) SEAL

र.न.: बी.यु.डी./एन.आर.ए/बँक/को./१३२७/८६-८७

प्रियदर्शनी नागरी सहकारी पतसंस्था मर्या. नांदुरा तालुका, जि.बुलढाणा

उमंग चौक, नांदुरा. ☎ : (०७२६५) २२०४२८, वडनेर भोलजी (०७२६५) २६५३०९

जा.क्र.

दिनांक : 22/ 08 /2022

CERTIFICATE OF INTERNSHIP

This is to certify that Mr/Miss. **Diwre Yuvraj Shankar** student of class B. Com. I year, Shri Pundlik Maharaj Mahavidylaya, Nandura has successfully completed one month internship and training at our organization during 20/07/2022 to 20/08/2022.

During this period of internship, he/ she was found punctual and hardworking.

We wish him/her every success in future.

व्यवस्थापक
प्रियदर्शनी नागरी सह.पतसंस्था
मर्या.नांदुरा र.नं.१३२७

र.न.: बी.यु.डी./एन.आर.ए/बँक/को./१३२७/८६-८७

प्रियदर्शनी नागरी सहकारी पतसंस्था मर्या.
नांदुरा तालुका, जि.बुलढाणा

उमंग चौक, नांदुरा. ☎ : (०७२६५) २२०४२८, वडनेर भोलजी (०७२६५) २६५३०९

जा.क्र.

दिनांक : 22/08/2022

CERTIFICATE OF INTERNSHIP

This is to certify that Mr/Miss. **Dhande Abhijit Gajanan** student of class B. Com. I year, Shri Pundlik Maharaj Mahavidylaya, Nandura has successfully completed one month internship and training at our organization during 20/07/2022 to 20/08/2022.

During this period of internship, he/ she was found punctual and hardworking.

We wish him/her every success in future.

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प्रियदर्शनी नागरी सह.पतसंस्था
मर्या.नांदुरा र.नं.१३२७

र.न.: बी.यु.डी./एन.आर.ए/बँक/को./१३२७/८६-८७

प्रियदर्शनी नागरी सहकारी पतसंस्था मर्या.
नांदुरा तालुका, जि.बुलढाणा

उमंग चौक, नांदुरा. ☎ : (०७२६५) २२०४२८, वडनेर भोलजी (०७२६५) २६५३०९

जा.क्र.

दिनांक : 22 / 08 /2022

CERTIFICATE OF INTERNSHIP

This is to certify that Mr/Miss. **Bochare Ankush Vithal** student of class B. Com. I year, Shri Pundlik Maharaj Mahavidylaya, Nandura has successfully completed one month internship and training at our organization during 20/07/2022 to 20/08/2022.

During this period of internship, he/ she was found punctual and hardworking.

We wish him/her every success in future.

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मर्या.नांदुरा र.नं.१३२७