



NABIRA
MAHAVIDYALAYA KATOL

Criterion 1 - Curricular Aspects

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well-planned and documented process

NABIRA MAHAVIDYALAYA, KATOL

Distt. Nagpur (M.S.) Pin - 441 302

Graduation & Post Graduation in Arts, Commerce, Science & Management

Phone : 07112 - 222004 / 222164 Fax : 07112-222004

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Ref. No. :


Date : 16.11.2023

DECLARATION

This is to declare that the information, reports, true copies and numerical data etc. furnished in this file as supporting documents is verified by IQAC and found correct.

Hence this is certificate.


Dr. Punit Raut
Co-Ordinator
IQAC, NMV Katol


Dr. S. K. Navin
Principal
Nabira Mahavidyalaya,
Katol

Academic Calendar

Session 2022-2023

Academic Calendar 2022-23

Month	Date	Event
June 15		<ul style="list-style-type: none"> • Convening of the Admission Committee Meeting for Program Enrollment
		<ul style="list-style-type: none"> • Initiating the Admission Process for Multiple Programs.
July		<ul style="list-style-type: none"> • Hiring Contributory Teachers for Vacant Positions.
		<ul style="list-style-type: none"> • Assisting Students in the Admission Process through Counseling.
August	01/08/22 To 08/08/22	<ul style="list-style-type: none"> • Principal's Address. • Bridge course
	09/08/22	<ul style="list-style-type: none"> • Establishing Class Structures. • Distributing Workload among Teachers. • Launching Regular Theory and Practical Classes for Odd Semesters.
		<ul style="list-style-type: none"> • Proposed Amrit Mahostav Rally by NSS
	15/08/2022	<ul style="list-style-type: none"> • Independence Day Celebrations • Sapling Donation Camp to be organized by NSS.
September	05-09-22	<ul style="list-style-type: none"> • Observing Teachers' Day.
		<ul style="list-style-type: none"> • Enrolling Students in NCC, NSS, etc. • English Literature Guidance Forum • Hosting Guest Lectures. • Holding a Meeting of the Women's Grievance Committee.. • Planned to organize guest lecture on "Research Methodology". • Initiating Tree Plantation drive. • Tree Coloring and Beautification Programme • Proposed Guest Lecture-'Nanoscience and Nanotechnology • Proposed programme by National Nutrition Mission to be organized by NSS. • To organize Pre-RD -NSS Camp.
October	02-10-22	<ul style="list-style-type: none"> • Celebrating Gandhi Jayanti and observe Swachhta Mission.
		<ul style="list-style-type: none"> • Filling up of University Examination forms and collection of Exam fees. • Participation in various inter collegiate completion organized by R.T.M. Nagpur University.

		<ul style="list-style-type: none"> • Arranging Guest Lectures "Motivated Entrepreneur" • Inter-Collegiate poster competition.
	15-10-22	<ul style="list-style-type: none"> • Observe "Vachan Prerna Din" on Dr. APJ Abdu Kalam birth anniversary. • Organization of various competitions like Eassy competition to observe Vachan Prerna Din.
	20/10/2022 to 29/10/22	<ul style="list-style-type: none"> • Diwali Vacation
November		<ul style="list-style-type: none"> • Proposed Veer Nari felicitation Programme to honor brave women from the families of deceased soldiers
		<ul style="list-style-type: none"> • Educational Visit "Mahatma Gandhi Industrial Rural Institute" MGIRI, WARDHA.
	15/11/22	<ul style="list-style-type: none"> • To celebrate Krantisurya Birsa Munda Jayanti Program
		<ul style="list-style-type: none"> • Semester end Viva-Voce (Internal Assessment) • University Examinations • Participation in Inter University Sports Activity.
Winter Vacation 19-11-2022 to 07-12-2022		
December		<ul style="list-style-type: none"> • Commencement of second academic session University Examinations.
		<ul style="list-style-type: none"> • To organize Quiz Competition On World Computer Literacy Day
		<ul style="list-style-type: none"> • Awareness Campaign About Computer Literacy <ul style="list-style-type: none"> • At ZP School No :05
		<ul style="list-style-type: none"> • A Webinar on Cloud Computing and its future Opportunities
	08/12/22	<ul style="list-style-type: none"> • BBA Day Celebration
	23/12/22	<ul style="list-style-type: none"> • To organize Programme on Meditation
January	05/01/2023	<ul style="list-style-type: none"> • Organize visit to 108th Indian Science Congress
	03/01/2023	<ul style="list-style-type: none"> • Savitribai Fule Jayanti
	10-01-23	<ul style="list-style-type: none"> • Employment Oriented Education
	12/01/2023	<ul style="list-style-type: none"> • To organize Blood Donation Camp

	14 to 28 /01/2023	<ul style="list-style-type: none"> • Marathi Bhasha Sanvardhan Week
	18/01/23	<ul style="list-style-type: none"> • Uttam Arogya Sathi Sawatch Paani Janjagruti Abhiyan 022-2023
	22/01/2023	<ul style="list-style-type: none"> • Proposed Tree Coloring and Beautification Program by NSS. • National Graduate Physics Examination (NGPE)
	24/01/2023	<ul style="list-style-type: none"> • Proposed Biofertilizer Awareness Campaign Rally 2023
	25/ 01/2023	<ul style="list-style-type: none"> • National Voters Day
	26 /01/2023	<ul style="list-style-type: none"> • Republic Day.
February	07/02/23 and 08/02/23	<ul style="list-style-type: none"> • Proposed Trade Fair- Department of Commerce
	20/02/2023	<ul style="list-style-type: none"> • Chhatrapati Shivaji Maharaj Jayanti (History) • Proposed Educational Tour (History)
	20-21/02/2023	<ul style="list-style-type: none"> • Participation in Vidarbha Universities Physics Teachers Association (VUPTA) Students' Seminar
	22/02/23	<ul style="list-style-type: none"> • Workshop on preparation and design of developmental and research grants.
	27-02-2022	<ul style="list-style-type: none"> • Guest lecture Marathi dept.
March	08/03/2023	<ul style="list-style-type: none"> • International Woman's Day
	13/03/2023	<ul style="list-style-type: none"> • Proposed Scientific Rangoli Competition" & "Poster Competition on Global Science for Global Wellbeing".
	14/03/ 2023.	<ul style="list-style-type: none"> • To hold a webinar on "Insect world and its Importance to agriculture".
	31 / 03/ 2022	<ul style="list-style-type: none"> • Proposed Guest Lecture on -Phonetics
April	01/04/22 to 04/04/22	<ul style="list-style-type: none"> • To organize seminar competition
		<ul style="list-style-type: none"> • To organize workshop on Career Guidance • Management of Law and Order - Lecture
	11/04/23	<ul style="list-style-type: none"> • CSR Drive Free Training And Placement Drive
	12/04/23	<ul style="list-style-type: none"> • To organize Inter-Collegiate Students' Seminar for English Lit. Students

	29-04-23	<ul style="list-style-type: none">• To organize Presentation on company analysis• Workshop on "Intellectual Property Rights and Patent Analysis."
	30/04/23	End of session


Principal
Nabira Mahavidyala, Katol.

**Syllabus Completion
Review Meetings
Session 2022-2023**

A meeting of all teachers was convened at 2 pm regarding course completion in AV room.

Following teachers were present:

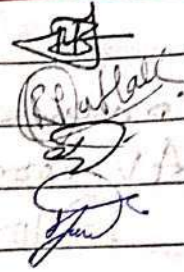
- | | |
|-------------------------|------------------|
| 1) Dr. S. K. Navin | _____ |
| 2) Dr. B. B. Kalbande | _____ |
| 3) Dr. A. B. Sharma | _____ |
| 4) B. P. Walondre | _____ |
| 5) Dr. V. G. Banagade | _____ |
| 6) N. T. Katre | _____ |
| 7) P. V. Salame | _____ |
| 8) T. L. Jagdale | _____ |
| 9) H. Y. Kankar | _____ |
| 10) N. V. Gandhare | _____ |
| 11) I. H. Dhadale | _____ |
| 12) S. R. Gakhare | _____ |
| 13) S. B. Behmiya | _____ |
| 14) K. A. More | _____ |
| 15) Dr. B. S. Kadbe | _____ |
| 16) Dr. P. S. Pawar | _____ |
| 17) J. G. More | _____ |
| 18) M. S. Jadhao | _____ |
| 19) V. R. Vargari | _____ |
| 20) Dr. R. G. Gogale | _____ |
| 21) Dr. M. M. Yeole | _____ |
| 22) A. S. Chaudhkar | _____ |
| 23) Dr. T. S. Kheekar | _____ |
| 24) Dr. R. S. Meshram | _____ |
| 25) D. M. Ridhoptar | _____ |
| 26) Jaysruce M. Patil | _____ |
| 27) Mehmali. C. Gondane | _____ |
| 28) V. R. Ruiker | _____ |

25) Dr. Y.P. Barbuddhe

30) Dr. R.R. Pallak

31) Dr. S.T. Bahade

32) M.D. Lad



Resolutions taken:

- (i) Syllabus has not been completed by any faculty.
- (ii) All the faculty members are asked to complete their syllabus before start of the exam.
- (iii) The teachers who have not submitted reports to the IQAC were asked to submit their report as soon as possible.

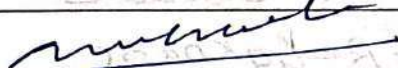


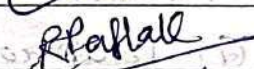


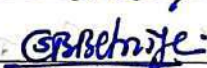
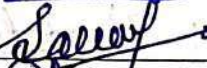

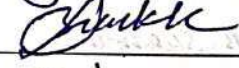

Principal
Nabira Mahavidyalaya, Katol.



Meeting of all Teachers of Arts Faculty

Meeting of all Teachers of Arts Faculty was held in the Principal's Chamber on 06th May 2023 at 1.30 P.M.

Following Teachers were present in the meeting

- | | | |
|--------------------------|---|---|
| 1) Dr. R. R. Dhote | — |  |
| 2) Dr. P. V. Salame | — |  |
| 3) Mr. H. Y. Kinnar | — |  |
| 4) Dr. R. R. Pallak | — |  |
| 5) Dr. D. D. Ghagargunde | — |  |
| 6) Dr. B. S. Kadbe | — |  |
| 7) Mr. S. B. Behniya | — |  |
| 8) Mr. S. V. Kalambe | — |  |
| 9) Mr. M. R. Dodice | — |  |
| 10) Mr. A. N. Bhakte | — |  |
| 11) Dr. Y. P. Barbudke | — |  |

Resolution taken:

- Teachers who have not completed their syllabus were agreed to complete their respective syllabus in next 15 days & they will inform about it to the principal.



Principal
Nabira Mahavidyalaya, Katol.

A meeting of all teachers of commerce faculty was held today on 6th May 2023 at 2:30 pm regarding course completion.

Following teachers were present:

- 1) G. K. Khosyade
- 2) M. S. Jadhao
- 3) B. R. G. Gomasle
- 4) Dr. Punst Raut
- 5) Dr. V. R. Ruiker

Resolution taken:

- i) Teachers who have not completed their syllabus till date were agreed to complete their remaining portion of syllabus by the end of the month.
- ii) They will inform principal about the completion status of syllabus.

Principal
Nabira Mahavidyalaya, Katol.



Action plan
Time Table
Departmental meetings
Teaching plan
Session 2022-2023

DEPARTMENT OF PHYSICS, NABIRA MAHAVIDYALAYA, KATOL

ACTION PLAN FOR SESSION: 2022-2023

1. Use of Audio-Visual aids for effective teaching.
2. Deeksharambh Students' Induction Programme for First year Students before the beginning of classes
3. Bridge Course Programme for First year Students followed by Deeksharambh Programme
4. Evaluation of students by conducting at least two Unit tests / Assignments for each class
5. To organize students' seminar for Semester V students in September 2022
6. To organize students' seminar for Semester III students in October 2022
7. To organize students' seminar for Semester II students in Jan- Feb 2023
8. Effective communication about recent articles as per subject up gradation in Physics throughout the session
9. Participation of students in activities organized by various Organizations/Association related to Physics, e.g. VUPTA Seminar, Avishkar, Inter Collegiate Quiz Competition etc.
10. To disseminate PDF of notes among the students
11. Participation of Students in Science day Programmes
12. To organize Guest lecture/ Invited talk by eminent Scholar in the ensuing session
13. Participation as well as presentation of research paper in National/Inter National conferences/Webinar by faculty members
14. Purchase of some Lab experimental set up to increase the existing set up due to enhancement in strength

~~_____~~
29/6/22

Abharma
29/6/2022
Head

Department of Physics

NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN- 2022-2023

Name of the Teacher: **Dr. A.B.Sharma**

Department: **Physics**


Month	Class	Paper	Topics proposed to be covered
Aug	B.Sc. Sem V	II	Unit I: Quantum mechanics
	B.Sc. Sem III	II	Unit I Interference of light
	B.Sc. Sem I	II	
Sept	B.Sc. Sem V	II	Unit II : Quantum mechanics Unit III : Nanomaterials
	B.Sc. Sem III	II	Unit I: Michelson Interferometer and its application to wavelength determination and wavelength difference Unit II: Diffraction of light
	B.Sc. Sem I	II	Review of Physics through Induction Program, Unit III :Time varying fields
Oct	B.Sc. Sem V	II	Unit III : Nanomaterials Unit IV : Nanotechnology
	B.Sc. Sem III	II	Unit II: Plane diffraction grating and its application, Resolving power of grating, Rayleigh's criterion for resolution Unit III : Polarization
	B.Sc. Sem I	II	Unit III: Electric Currents-Current density, Equation of continuity, Kirchhoff's law, Rise and decay of current in LR and CR circuits, Decay of charge in LCR circuits. Unit IV : Electric Currents-Application of complex number in solving an a. c. circuit, j- operator method, A.C. applied to pure resistive, pure inductive and pure capacitive circuit
Nov	B.Sc. Sem V	II	Revision
	B.Sc. Sem III	II	Unit IV : EM Waves-
	B.Sc. Sem I	II	Unit IV : Unit I: Electrostatics
20 th Oct 2022 to 29 th Oct 2022 : Dipawali Vacation 24 th Nov 2022 to 7 th Dec 2022 : Winter Vacation Second Term (Even Semester) : 08/12/2022 to 07/05/2023			
Dec	B.Sc. Sem V	II	Dec 01/12/21 onwards RTMNU Examinations
	B.Sc. Sem III	II	Dec 01/12/21 onwards RTMNU Examinations
	B.Sc. Sem I	II	Unit II: Dielectric-Introduction, definition of polar and non polar molecules, Polarization of charges in a dielectric, Clausius -

A.B. Sharma

			Mossotti equation, Three electric vectors D, E and P and relation between them, Concept of capacitance, Parallel plate capacitor without and with dielectric, application of Gauss's law to parallel plate capacitor.
Month	Class	Paper	Topic to be covered
16 th Jan 2021 Onwards	B.Sc. Sem II	II	Unit I: Gravitation- Kepler's laws of Planetary motion (statement only), Newton's law of gravitation, Relation between G and g, Gravitational field, Gravitational potential, Gauss's theorem, Gravitational potential and intensity due to uniform solid sphere at a point inside and outside the sphere, Gravitational self energy of a galaxy.
	B.Sc. Sem IV	I	Unit I: Solid state physics- Introduction, Crystal structure, periodicity, lattices and basis, fundamental translation vector, unit cell and primitive cell, Miller indices, allowed rotations, lattice types, lattice planes, Bravais lattices, packing fraction, coordination number, Inter-planer distances, Crystal structures-Na Cl, diamond, CsCl, ZnS etc.
	B.Sc. Sem VI	I	Unit I- Relativity: Frame of reference, Inertial and non inertial frames, Galilean transformation equations, Galilean invariance, Michelson-Morley experiment, Postulates of the special theory of relativity, Lorentz transformations, Length contraction, Time dilation, Velocity addition theorem, Variation of mass with velocity, Mass energy equivalence
Feb	B.Sc. Sem II	II	Unit II: Astrophysics- The constituents of universe (Solar system, Stars, Galaxies), Introductory study of solar systems, To measure size of a planet ($d=D.\alpha$), To measure distance of a planet by parallax method ($D=b/\theta$), Mass of the sun and the planets ($M=4\pi r^3/\rho$), Structure of sun, Solar interior, Surface temperature of sun ($T=[R/r]^{1/2} .[S/\sigma]^{1/4}$), Solar luminosity, Stellar spectra, The Milky way (shape, size, clusters), Cosmological theories of the universe (Concept only).
	B.Sc. Sem IV	I	Unit II: Solid state physics- Reciprocal lattice, Wigner Seitz cell, Geometrical relation between direct and reciprocal lattice, Laue's theory of X-ray diffraction, Bragg's law and Bragg's diffraction conditions in direct and reciprocal lattice, Laue's pattern, Bragg's spectrometer and its applications (wavelength determination and simple cubic structure determination).
	B.Sc. Sem VI	I	Unit II Nuclear physics: G.M. counter, Wilson cloud chamber, Cyclotron, Linear accelerator, Nuclear reaction, Discovery of neutron, Packing fraction, Mass defect and binding energy, Nuclear fission, Liquid drop model, Chain reaction, Nuclear reactors, Nuclear fusion, Shell model of the nucleus.

J. S. Kulkarni

Mar	B.Sc. Sem II	II	Unit III: Magnetism-Introduction, Magnetic materials, Langevin's theory of diamagnetism, its application as superconductor, Critical magnetic field and Meissner effect. Langevin's theory of para magnetism, Ferromagnetism, Ferromagnetic domain, Curie temperature, Ferrimagnetisms, Ferrites and its applications, Anti ferromagnetism, Neel temp.
	B.Sc. Sem IV	I	Unit III X-ray : Introduction, discrete and continuous X-ray spectra, Main feature of continuous X-ray spectra, Characteristics X-ray spectra, Duane-Hunt law, X-ray emission spectra, Moseley law its importance and applications, Auger effect, X-ray absorption spectra, applications of X-rays in various fields
	B.Sc. Sem VI	I	Unit III Nuclear physics: Alpha decay, Range of α particle, Geiger Nuttal law, Magnetic spectrometer for energy of α particle, Tunneling, Gamow's theory of α decay, β - decay, Measurement of energy of β particle and end point energy, Neutrino theory of β - decay, γ - decay, Energy of γ photon.
April	B.Sc. Sem II	II	Unit IV: Magneto statics- Concept of magnetic field, Lorentz force equation, Magnetic dipole moment, angular momentum and gyro magnetic ratio, Biot- Saverts law, It's applications (B due to steady current in a long straight wire, B along the axis of circular coil), Ampere's law, It's applications(B for a solenoid, A Toroid), Magnetization current, Magnetic vectors, Gauss law of magnetization.
	B.Sc. Sem IV	I	Unit IV Laser: Introduction to Laser(purity of spectral line, spatial and temporal coherence), Einstein's relation, absorption, spontaneous and stimulated emission, Population inversion, Optical pumping, characteristics of laser beam, three level and four level laser system, Ruby laser, He-Ne laser, Semiconductor laser, Application of lasers
May	B.Sc. Sem II	II	Revision and Terminal Exam
	B.Sc. Sem IV	I	Revision and Terminal Exam
	B.Sc. Sem VI	I	Revision and Terminal Exam


 (Dr. A.B.Sharma)
 Associate Professor


NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN- 2022-2023

Name of the Teacher: **Dr. I.H.Dhadade**

Department: **Physics**

Month	Class	Paper	Topics proposed to be covered
Aug	B.Sc. Sem V	1	Unit I: Atomic Physics
	B.Sc. Sem III	1	Admissions not yet started
	B.Sc. Sem I	1	<i>Bridge Course Programme</i> Unit I : Elasticity
Sept	B.Sc. Sem V	1	Unit II : Free Electron Theory and Band Theory of Solids
	B.Sc. Sem III	1	Unit I: Waves in media
	B.Sc. Sem I	1	Unit II : Viscosity
Oct	B.Sc. Sem V	1	Unit III : Statistical Physics (Classical)
	B.Sc. Sem III	1	Unit II : Applied acoustic Unit III : Ultrasonics
	B.Sc. Sem I	1	Unit III :Surface Tension and Mechanics I
Nov	B.Sc. Sem V	1	Unit IV : Statistical Physics (Quantum)
	B.Sc. Sem III	1	Unit IV : Power Supply
	B.Sc. Sem I	1	Unit IV : Mechanics II
20 th Oct 2022 to 29 th Oct 2022			: Dipawali Vacation
24 th Nov 2022 to 7 th Dec 2022			: Winter Vacation
Second Term (Even Semester)			: 08/12/2022 to 07/05/2023
Dec	B.Sc. Sem VI	II	Unit I : Amplifiers
	B.Sc. Sem IV	II	Unit I : Solid state electronics
	B.Sc. Sem II	I	Unit I : Free oscillations
Jan	B.Sc. Sem VI	II	Unit II : Fiber optics
	B.Sc. Sem IV	II	Unit II : Field Effect Transistor (FET)
	B.Sc. Sem II	I	Unit I : Damped Oscillations
Feb	B.Sc. Sem VI	II	Unit III: Communication
	B.Sc. Sem IV	II	Unit III : Molecular physics
	B.Sc. Sem II	I	Unit II : Forced oscillations & Piezoelectric Effect
Mar	B.Sc. Sem VI	II	Unit IV: Number Systems
	B.Sc. Sem IV	II	Unit IV: Raman Spectroscopy
	B.Sc. Sem II	I	Unit III: Kinetic theory of gases & Transport Phenomenon in Gases
April	B.Sc. Sem VI	II	Revision and Terminal Examination
	B.Sc. Sem IV	II	Revision and Terminal Examination
	B.Sc. Sem II	I	Unit IV: Thermodynamics


(Dr. I.H.Dhadade)
Associate Professor

16:58



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N M V Office Tech & NT

only admins can send messages



November 22, 2022



S.K. Navin Office

All teachers are requested to attend a meeting today in AV room at 2 pm. This meeting is about course completion.



06:45

Nabira Mahavidyalaya, Katol

Department of Physics

Date- 23-11-2022

Status of Syllabus for B.Sc. Course (Session: 2022-23)

S N	Name of Teacher	Class	Paper	Syllabus Completed	Signature
1	Dr. A.B. Sharma	Sem-I	Paper-II	85%	
		Sem-III	Paper-II	75%	
		Sem-V	Paper-II	98%	
2	Dr. I.H. Dhadade	Sem-I	Paper-I	80%	
		Sem-III	Paper-I	60%	
		Sem-V	Paper-I	95%	


Head


23/11/22

NABIRA MAHAVIDYALAYA KATOL
TIME TABLE
M.SC.(PHYSICS)
FIRST SEMESTER
2022-23.



Day	9.00 -10.00	10.00-11.00	11.00-11.30	11.30-12.30	12.30-1.30	1.30-2.30
Monday	ELEC.(LG)	CA(AW)	B			
Tuesday	ELEC.(LG)	CA(AW)	R	SEMINAR		
Wednesday		MP(LG)	E	ELEC.(YM)	ED(YM)	
Thursday		MP(LG)	A	ELEC.(YM)	SEMINAR	
Friday	CA(AW)	MP(LG)	K	PR1		
Saturday	CA(AW)	MP(LG)		PR2		

Mahant
 Co-Ordinator
 Dr. Y.P. Mahant.
HOD
P.G.T.D. of Physics
N.M.V. Katol



NABIRA MAHAVIDYALAYA KATOL
TIME TABLE
M.SC(PHYSICS)
2nd SEMISTER
2022-23

Day/Time	9.00-10.00	10.00-11.00	11.15-12.15	12.15-01.15	01.15-02.15	02.15-3.15
Monday		PRACTICAL 1(LG)		QM(AW)	SM(YM)	SM(YM)
Tuesday		PRACTICAL 2(AW)		CM(LG)	SM(YM)	SM(YM)
Wednesday		QM(AW)	ED(YM)	CM(LG)		
Thursday		CM(LG)	ED(YM)	QM(AW)	TUTORIAL	
Friday		ED(YM)	ED(YM)	SM(YM)	TUTORIAL	
Saturday		QM(AW)	CM(LG)	SEMINAR		


Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol



NABIRA MAHAVIDYALAYA KATOL
TIME TABLE
M.SC(PHYSICS)
3rd SEMISTER
2022-23

Day/Time	10.00-11.00	11.00-12.00	12.00-12.15	12.15-01.15	01.15-02.15	02.15-3.15
Monday	QM(AW)	NANO TECH	BREAK	MAT.SCI.(YM)	SEMINAR	
Tuesday	QM(AW)	NANO TECH		MAT.SCI.(YM)	SEMINAR	
Wednesday	QM(AW)	NANO TECH		MAT.SCI.(YM)	TUTORIAL	
Thursday	SSP (LG)	NANO TECH		PR1(YM)		
Friday	SSP (LG)	MAT.SCI.YM)		PR2(YM)		
Saturday	SSP (LG)	SSP (LG)		QM(AW)		

Work Load

Dr.Yogita Mahant = 8 TH +6 PR
Lukesh Giradkar = 4 TH
Arpit Wagh= 4 TH


Co-Ordinator

Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol



NABIRA MAHAVIDYALAYA KATOL
TIME TABLE
M.SC(PHYSICS)
4 th SEMISTER
(2022-23)

Day/Time	9.00-10.00	10.00-11.00	11.15-12.15	12.15-01.15	01.15-02.15	02.15-3.15
Monday	SSP(LG)	ETP(YM)	PRACTICAL			
Tuesday	SSP(LG)	ETP(YM)	PRACTICAL			
Wednesday	NP(AW)	ETP(YM)	MATE SCI(AW)	PROJECT		
Thursday	NP(AW)	ETP(YM)	MATE SCI(AW)	PROJECT		
Friday	SSP(LG)	NP(LG)	MATE SCI(AW)	SEMINAR		
Saturday	SSP(LG)	NP(LG)	MATE SCI(AW)	SEMINAR		


Co-Ordinator
P.G.T.O. of Physics
N.M.V. Kato



Nabira Mahavidyalaya Katol
Post Graduate Department of Physics

Action Plan

Session 2022-23

The monthwise action plan of the Post Graduate department of Physics

Sr.No.	Month	Activity
1	August	Guest Lecture
2	September	Workshop
3	October	Guest Lecture
4	December	Industrial Visit
5	January	Webinar
6	March	Departmental Activity

Co-Ordinator

(Signature)

(Dr. Y.P. Mahant)

HOD

P.G.T.D. of Physics

N.M.V. Katol

26th sep 22

Notice

Subject: Staff Meeting Regarding Syllabus Completion

All the staff members are hereby informed that a there will be a staff meeting to discuss the completion of the syllabus for the academic term. Your attendance is mandatory.

Date: 28th September 2022

Time: 12.00 pm

Location: Staff room (P.G. Dept. of Physics)

Agenda

- 1 Review of Syllabus Outline
- 2 Deadline for finalizing the syllabus
- 3 Clarification on Teaching methods and Assessment Criteria.



Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katel

26th March 23

Notice

Subject: Staff Meeting Regarding Syllabus Completion

All the staff members are hereby informed that there will be a staff meeting to discuss the completion of the syllabus for the academic term. Your attendance is crucial to ensure the successful planning and execution of our courses. The details of the meeting are as follows:

Date: 28th March 2023

Time: 12.30 pm

Location: Staff room (P.G. Dept. of Physics)

Agenda

- 1 Review of Syllabus Outline
- 2 Additional Content
- 3 Teaching methods
- 4 Assessment Criteria.
- 5 Finalization Deadline



Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol

NABIRA MAHAVIDYALA, KATOL

Department of PHYSICS


Teaching Plan – 2022-23

Name of teacher- Mr. Lukesh D Giradkar

M.Sc. I : Semester - II :

SUBJECT : CLASSICAL MECHANICS

Months	Units	Contents
FEB 23	Unit 1	LAGRANGES EQUATION FOR DIFFERENT SYSTEM
MARCH 23	Unit 2	HAMILTONS EQUATION FOR DIFFERENT SYSTEM
APRIL 23	Unit 3	TWO BODY PROBLEMS
MAY 23	Unit 3+4	RIGID BODY DYNAMICS


Co-Ordinator
P.G.T.D. of Physics
N.M.V. Kato

NABIRA MAHAVIDYALA, KATOL

Department of PHYSICS

Teaching Plan – 2022-23

Name of teacher- Mr. Lukesh D Giradkar

M.Sc. II : Semester - IV :

SUBJECT :NUCLEAR AND PARTICLE PHYSICS

Months	Units	Contents
MARCH 23	Unit 3	DIFFERENT PARTICLE ACCELATORS
APRIL MAY 23	Unit 4	ELEMENTARY PARTICLE PHYSICS


Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol

NABIRA MAHAVIDYALA, KATOL

Department of PHYSICS


Teaching Plan – 2022-23

Name of teacher- Mr. Lukesh D Giradkar

M.Sc. II : Semester - IV :

SUBJECT :NUCLEAR AND PARTICLE PHYSICS

Months	Units	Contents
MARCH 23	Unit 3	DIFFERENT PARTICLE ACCELATORS
APRIL MAY 23	Unit 4	ELEMENTARY PARTICLE PHYSICS


Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol

NABIRA MAHAVIDYALA, KATOL

Department of PHYSICS

Teaching Plan – 2022-23

Name of teacher- Mr Arpit Wagh

M.Sc. I : Semester - II :

SUBJECT : quantum mechanics

Months	Units	Contents
FEB 23	Unit 1	Basics of quantum mechanics Schrodinger equation and its application
MARCH 23	Unit 2	Hilbert spaces Dirac and matrix formulation
APRIL 23	Unit 3	Angular momentum algebra Parity operator
MAY 23	Unit 3+4	Hydrogen atom, paulis matrices and total angular momentum


Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol

NABIRA MAHAVIDYALA, KATOL

Department of PHYSICS


Teaching Plan – 2022-23

Name of teacher- Mr. Arpit wagh

M.Sc. II : Semester - IV :

SUBJECT: Material science

Months	Units	Contents
JAN 23	Unit 1	Mechanical response of material, corrosion and degradation of material Spintronics
FEB 23	Unit 2	Concept of synthesis Synthesis of materials
MARCH 23	Unit 3	Processing of material, characterisation
APRIL 23	Unit 4	Microscopic techniques


Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol

NABIRA MAHAVIDYALA, KATOL

Department of PHYSICS

Teaching Plan – 2022-23

Name of teacher- Mr. Lukesh D Giradkar

M.Sc. II : Semester - IV :

SUBJECT: Solid States Physics

Months	Units	Contents
JAN 23	Unit 1	SEMICONDUCTOR
FEB 23	Unit 2	PROPERTIES OF MATERIALS
MARCH 23	Unit 3	SPECTROSCOPY
APRIL 23	Unit 4	SUPERCONDUCTOR


Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol

NABIRA MAHAVIDYALA, KATOL

Department of PHYSICS

Teaching Plan – 2022-23

Name of teacher- Mr. Arpit D. Wagh

M.Sc. I : Semester - I : Complex Number

Months	Units	Contents
Sept 2022	Unit 1	Definitions of Complex Number Complex Algebra, Geometrical Representation
Oct 2022	Unit 1 and 2	Cauchy-Reimann Condition, Analytic Function, Cauchy Integral Formula, Singularities
Nov 2022	Unit 2	Cauchy-Residue Theorem Cauchy Principal Value Meromorphic Function
Dec 2022	Unit 3	Bisection, False-position Method, Iteration Method, Secant Method, Finite Differences
Jan 2023	Unit 4	Lagrange's Interpolation, Divided Differences, Numerical Integration, Runge – Kutta Method



Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol

NABIRA MAHAVIDYALA, KATOL

Department of PHYSICS

Teaching Plan – 2022-23

Name of teacher- Mr. Lukesh D Giradkar

M.Sc. I : Semester - I : Mathematical Physics

Months	Units	Contents
Oct 22	Unit 1	Curvilinear coordinates system, Gradient, Divergence & Curl, Fourier transform
Nov 22	Unit 2	Tensors, Laplace transform, Heaviside expansion formula
Nov 22	Unit 2+3	Inverse Laplace transform & Application, Matrices
Dec 22	Unit 3+4	Vector spaces, Linear differential equation and special function



**Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol**

Nabira Mahavidyalaya Katol

Teaching Plan 2022- 23

To be submitted to the teacher Appraisal committee

Name of Teacher: Dr. Yogita Mahant

Dept: P.G. Dept. Of Physics

Subject/Paper: Electrodynamics

Class: M. Sc I Sem

Month	Topic to be covered
Sepetmber	Unit 1 ---Electrostatics
October	Unit 2 ---Electrostatics
November	Unit 3 ---Magnetostatics
December	Unit 4 ---Time varying field


Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol

Nabira Mahavidyalaya Katol

Teaching Plan 2022- 23

To be submitted to the teacher Appraisal committee

Name of Teacher: Dr. Yogita Mahant

Dept: P.G. Dept. Of Physics

Subject/Paper: Electronics

Class: M. Sc I Sem

Month	Topic to be covered
September	Unit 1 ---Electronics Semiconductor devices
October	Unit 2 ---Application of semiconductor devices
November	Unit 3 ---Digital integrated circuits
December	Unit 4 ---Communication Electronics



Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol

Nabira Mahavidyalaya Katol

Teaching Plan 2022- 23

To be submitted to the teacher Appraisal committee

Name of Teacher: Dr. Yogita Mahant

Dept: P.G. Dept. Of Physics

Subject/Paper: Electrodynamics

Class: M. Sc II Sem

Month	Topic to be covered
December	Unit 1 ---Scalar Waves
January	Unit 2 ---Symmetries of Maxwell equations
February	Unit 3 ---Motion of a charge in EM field
March	Unit 4 ---Wave guides



**Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol**

Nabira Mahavidyalaya Katol

Teaching Plan 2022- 23

To be submitted to the teacher Appraisal committee

Name of Teacher: Dr. Yogita Mahant

Dept: P.G. Dept. Of Physics

Subject/Paper: Statistical Physics

Class: M. Sc II Sem

Month	Topic to be covered
December	Unit 1 ---Fundamentals of classical SM
January	Unit 2 --- Fundamentals of quantum SM
February	Unit 3 ---Ideal Fermi System
March	Unit 4 ---Phase transition



**Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katoj**

Nabira Mahavidyalaya Katol

Teaching Plan 2022- 23

To be submitted to the teacher Appraisal committee

Name of Teacher: Dr. Yogita Mahant

Dept: P.G. Dept. Of Physics

Subject/Paper: Material Science

Class: M. Sc 3rd Sem

Month	Topic to be covered
September	Unit 1 ---Equilibrium and kinetics
October	Unit 2 ---Phase Transformation
November	Unit 3 ---Diffusion in solids
December	Unit 4 ---Solid state energy devices

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Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol

Nabira Mahavidyalaya Katol

Teaching Plan 2022- 23

To be submitted to the teacher Appraisal committee

Name of Teacher: Dr. Yogita Mahant

Dept: P.G. Dept. Of Physics

Subject/Paper: Nanoscience and Nanotechnology

Class: M. Sc 3rd Sem

Month	Topic to be covered
December	Unit 1 ---Introduction to Nanoscience
January	Unit 2 ---Nanomaterials Synthesis
February	Unit 3 ---Nanomaterials Characterization
March	Unit 4 ---Special Nanomaterials and properties



**Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol**

NABIRA MAHAVIDYALA, KATOL

Department of PHYSICS

Teaching Plan – 2022-23

Name of teacher- Mr. Arpit D. Wagh

M.Sc. II : Semester - III : QUANTUM MECHANICS

Months	Units	Contents
Aug 2022	Unit 1	Time Dependent, Time Independent Perturbation Applications
Sept 2022	Unit 1	He - atom Normal And anomalous Zeeman Effect, Stark Effect, Oscillator
Oct 2022	Unit 3	System Of Identical Particle, Exchange Operator, Statics of System, Ortho, Parahelium Heitler-LONDON Theory
Nov 2022	Unit 3 and 4	Scattering Theory, Relativistic Quantum Mechanics, K-G Equations, Dirac Theory, Spin -Orbit Interaction
Dec 2023	Unit 2	WKB Method, Variational principle, Fermi Golden Rule , Time Dependent Perturbation



**Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katoj**

NABIRA MAHAVIDYALA, KATOL

Department of PHYSICS

Teaching Plan – 2022-23

Name of teacher- Mr. Lukesh D Giradkar

M.Sc. II : Semester - III : Solid States Physics and Spectroscopy

Months	Units	Contents
Aug 22	Unit 1	Crystalline solid, Liquid crystal, Geometrical structure factor & Reciprocal lattice
Oct 22	Unit 2	Defects, Dielectric properties of material Dislocations
Nov 22	Unit 3	Atomic structure atomic spectra, Franck Condon principle
Dec 22	Unit 4	Molecular structure & molecular spectra, ESR, NMR & Raman spectroscopy



**Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol**

Nabira Mahavidyalaya Katol

Teaching Plan 2022- 23

To be submitted to the teacher Appraisal committee


Name of Teacher: Dr. Yogita Mahant

Dept: P.G. Dept. Of Physics

Subject/Paper: Experimental Techniques
In Physics

Class: M. Sc 4th Sem

Month	Topic to be covered
December	Unit 1 ---Radiation Sources, Detectors and Sensors
January	Unit 2 ---Structural Characterization and Thermal Analysis
February	Unit 3 ---Morphological and Magnetic Characterization
March	Unit 4 ---Spectroscopic Analysis


Co-Ordinator
P.G.T.D. of Physics
N.M.V. Katol

**DEPARTMENT OF CHEMISTRY
NABIRA MAHAVIDYALAYA, KATOL**

ACTION PLAN FOR THE ACADEMIC YEAR 2022-23

1. It is proposed to form Chemical Society to arrange guest lectures related to important events, visit to useful institutions etc.
2. It is proposed to arrange Remedial Teaching for below average students.
3. It is proposed to arrange Inter-University Chem genius-quiz competition for students and encourage them to participate actively in such competition.
4. It is proposed to arrange Class-Room Seminar for final year students.
5. It is proposed to arrange Inter-Collegiate students Seminars for students and encourage them to participate actively in such seminars arranged elsewhere.
6. It is proposed to arrange exhibition/posters/models competition for students and encourage them to participate actively in such events arranged elsewhere.
7. It is proposed to arrange workshop to make aware and handle the sophisticated instruments for teaching and non-teaching staff.
8. It is proposed to arrange workshop to understand good laboratory practices and safety for Non-teaching Laboratory staff.
9. It is proposed to arrange extension/co-curricular activities for the students.


Head

Department of Chemistry
Nabira Mahavidyalaya, Katol
Head, Chemistry Dept
Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL
DEPARTMENT OF CHEMISTRY
TIME-TABLE
2022-2023

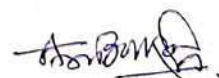
Time/ Day	8.48 am to 9.36 am	9.40 am to 10.28 am	10.28 am to 11.16 am	11.20 am to 1.44 pm	1.44 pm to 4.08 pm
Mon	B.Sc. Sem III/IV (KAM/ADB) P-II/P-II	B.Sc. Sem I/II (NVG/KAM) P-I/P-I	B.Sc. Sem V/VI (ADB/NVG) P-II/P-I	B.Sc. Sem V/VI ADB[3]+NVG[2]+ NGJ[3]+KAM[2]	B.Sc. Sem V/VI [Non-Grant]
Tue	B.Sc. Sem III/IV (KAM/ADB) P-II/P-II	B.Sc. Sem I/II (NVG/KAM) P-I/P-I	B.Sc. Sem V/VI (ADB/NVG) P-II/P-I	B.Sc. Sem V/VI ADB[3]+NGJ[3]+ [---]	B.Sc. Sem V/VI [Non-Grant]
Wed	B.Sc. Sem III/IV (KAM/ADB) P-II/P-II	B.Sc. Sem I/II (NVG/KAM) P-I/P-I	B.Sc. Sem V/VI (ADB/NVG) P-II/P-I	B.Sc. Sem III/IV NVG[3]+ADB[3]+ NGJ[3]+KAM[3]	B.Sc. Sem III/IV [Non-Grant]
Thu	B.Sc. Sem III/IV (NVG /NVG) P-I/P-I	B.Sc. Sem I/II (KAM/ADB) P-II/P-II	B.Sc. Sem V/VI (NGJ/NGJ) P-I/P-II	B.Sc. Sem III/IV NVG[3]+NGJ[3]+ KMA[3]	B.Sc. Sem III/IV [Non-Grant]
Fri	B.Sc. Sem III/IV (NVG /NVG) P-I/P-I	B.Sc. Sem I/II (KAM/ADB) P-II/P-II	B.Sc. Sem V/VI (NGJ/NGJ) P-I/P-II	B.Sc. Sem I/II NVG[3]+ADB[3]+ NGJ[2]+KAM[3]	B.Sc. Sem I/II [Non-Grant]
Sat	B.Sc. Sem III/IV (NVG /NVG) P-I/P-I	B.Sc. Sem I/II (KAM/ADB) P-II/P-II	B.Sc. Sem V/VI (NGJ/NGJ) P-I/P-II	B.Sc. Sem I/II NVG[3]+ADB[3] NGJ[3]+KAM[3]	B.Sc. Sem I/II [Non-Grant]

Class	Strength	Batches	Practicals	Theory	Total
1. B.Sc. Sem I/II	- 90	06	36	06	42
2. B.Sc. Sem III/IV	- 66	04	24	06	30
3. B.Sc. Sem V/VI	- 94	06	36	06	42

Total 96 Total 18 Total 114

Allotted Workload	T	P	Total
1. Dr. A.D. Borkar	03	15	18
2. Shri. N.V. Gandhare	06	14	20
3. Shri. N.G. Jadhav	03	17	20
4. Shri. K.A. More	06	14	20

Total workload - 114
Allotment - 78
Excess - 36


(A.D. Borkar)

Head, Department of Chemistry
head, Chemistry Dept
Nabira Mahavidyalaya, Katol

DEPARTMENT OF CHEMISTRY

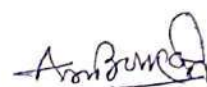
Nabira Mahavidyalaya, Katol

NOTICE

Date : 25/11/2022

It is kindly informed to all the faculty members that there is meeting on 26/11/2022 at 11:00 am to discuss syllabus completion of SEM I, III and V.

All are requested to attend meeting positively.



Dr. A.D. Borkar

Head Department of Chemistry

N.M.V. Katol

Head, Chemistry Deptt

Mahira Mahavidyalaya, Katol.

DEPARTMENT OF CHEMISTRY

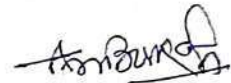
Nabira Mahavidyalaya, Katol

NOTICE

Date : 28/04/2023

It is kindly informed to all the faculty members that there is meeting on 29/04/2023 at 11:00 am to discuss syllabus completion of SEM II, IV and VI.

All are requested to attend meeting positively.



Dr. A.D. Borkar

Head Department of Chemistry

N.M.V. Katol
Head, Chemistry Deptt

Nabira Mahavidyalaya, Katol

DEPARTMENT OF CHEMISTRY

Nabira Mahavidyalaya, Katol

Academic Year 2022-2023

Completion of syllabus For SEM I, III, V, II, IV, VI

Sr. No	Name of Teacher	Subject	Class	Paper	% of Syllabus Completed
1	Dr. A.D. Borkar	Chemistry	B.Sc. Sem V	P-II	97%
2	Dr. N.V. Gandhare	Chemistry	B.Sc. Sem I B.Sc. Sem III	P-I P-I	96% 97%
3	Mr. N.G. Jadhao	Chemistry	B.Sc. Sem V	P-I	97%
4	Mr. K.A. More	Chemistry	B.Sc. Sem I B.Sc. Sem III	P-II P-II	96% 97%
5	Dr. A.D. Borkar	Chemistry	B.Sc. Sem IV	P-II	96%
6	Dr. N.V. Gandhare	Chemistry	B.Sc. Sem IV B.Sc. Sem VI	P-I P-I	95% 97%
7	Mr. N.G. Jadhao	Chemistry	B.Sc. Sem II B.Sc. Sem VI	P-II P-II	96% 97%



Head

Department of Chemistry

Head, Chemistry Deptt

Nabira Mahavidyalaya, Katol.



Nabira Mahavidyalaya, Katol

Teaching Plan -2022-2023

Name of Teacher: Dr.A.D.Borkar

Department: Chemistry

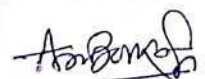
Subject/Paper: Chemistry P-II

Class: B.Sc. Sem-V, P-II,

B.Sc. Sem-IV P-II

Month	Subject	Unit	Topic to be covered
July	B.Sc. Sem- V	Unit- IV (Chem P-II)	Colligative Properties
August	B.Sc. Sem-V	Unit- IV (Chem P-II)	Colligative Properties
September	B.Sc. Sem-V	Unit-III (Chem P-II)	Photochemistry
October	B.Sc. Sem-V	Unit- II (Chem P-II)	Quantum Chemistry
November	B.Sc. Sem-V	Unit-II (Chem P-II)	Quantum Chemistry
December	B.Sc. Sem-V	Unit-I (Chem P-II)	Electrochemistry
January	B.Sc. Sem-IV	Unit-I(Chem P-II)	Solid State Chemistry
February	B.Sc. Sem-IV	Unit-II (Chem P-II)	Electrochemistry

March	B.Sc.Sem-IV	Unit-III(Chem P-II)	Spectroscopy
April	B.Sc. Sem-IV	Unit -IV(Chem P-II)	Quantum Chemistry



Dr. A.D. Borkar

**Professor and Head
Head, Chemistry Dept.**

Nabira Mahavidyalaya, Katchi,



Nabira Mahavidyalaya, Katol



Teaching Plan -2022-2023

Name of Teacher: Mr.Nilesh G.Jadhao

Department: Chemistry


Subject/Paper: Chemistry,P-I &P-II

Class: B.Sc. Sem-V, P-I, Sem-VI, P-II

B.Sc. Sem-II P-II

Month	Subject	Unit	Topic to be covered
July	B.Sc. Sem- V	Unit- I (Chem P-I)	Nitro compounds and Amines
August	B.Sc. Sem-V	Unit- II (Chem P-I)	Heterocyclic Compounds
September	B.Sc. Sem-V	Unit-III (Chem P-I)	Quantitative Analysis and Organometallic Compounds
October	B.Sc. Sem-V	Unit- IV (Chem P-I)	Electromagnetic Spectrum and Pharmaceutical Chemistry
November	B .sc .Sem-V	Unit-IV (Chem P-I)	Pharmaceutical Chemistry
December	B.Sc. Sem-VI	Unit-I (Chem P-II)	Nuclear Magnetic Resonance and Infrared Spectroscopy
	B.Sc.Sem-II	Unit-I(Chem P-II)	Thermodynamics
January	B.Sc. Sem-VI	Unit-II(Chem P-II)	Organic Synthesis via Enolates
	B.Sc.Sem-II	Unit-II(Chem P-II)	Phase Equilibria & Solutions of liquids in liquid

February	B.Sc. Sem-VI	Unit -II(Chem P-II)	Carbohydrates
	B.Sc.Sem-II	Unit-III(Chem P-II)	Chemical Kinetics and Theories of Reaction rates
March	B.Sc. Sem-VI	Unit-III (Chem P-II)	Amino acids, Peptides , Proteins & Nucleic acids, Fats, Oils ,Soap and Detergents
	B.Sc.Sem-II	Unit-IV (Chem P-II)	Nuclear Chemistry
April	B.Sc. Sem-VI	Unit-IV (Chem P-II)	Synthetic dyes, polymers and Green Chemistry
	B.Sc.Sem-II	Unit-IV (Chem P-II)	Pollution and its Control



Mr. Nilesh G. Jadhao

Assistant Professor

Mr. Nilesh G. Jadhao

Assistant Professor
Department of Chemistry
Nabira Mahavidyalaya, Katol



Nabira Mahavidyalaya, Katol



Teaching Plan -2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of Teacher: Dr. Nilesh V. Gandhare

Dept: Chemistry

Subject/Paper: Chemistry, P-I & P-II

Class: B.Sc. Sem-III, P-II, Sem-II, P-I

Month	Subject	Unit	Topic to be covered
June			
July			
August	B.Sc. Sem-I	Unit-I	Atomic Structure, Periodic Properties.
	B.Sc. Sem-III	Unit-I	VSEPR Theory, MO Theory.
September	B.Sc. Sem-I	Unit-II	Ionic bond, Covalent Bond.
	B.Sc. Sem-III	Unit-II	Chemistry of element of first transition series, Chemistry of element of second and third transition series.
October	B.Sc. Sem-I	Unit-III	S- block elements, Chemistry of Noble Gases.
	B.Sc. Sem-III	Unit-III	Chemistry of Lanthanide, Chemistry of Actinides.
November	B.Sc. Sem-I	Unit-IV	P-block elements, Food Adulteration and Detection.
	B.Sc. Sem-III	Unit-IV	Errors in Chemical Analysis, Soil Chemistry
December	B.Sc. Sem-IV		Revision
	B.Sc. Sem-VI		Revision
January	B.Sc. Sem-IV	Unit-I	Coordination compounds
	B.Sc. Sem-VI	Unit-I	Metal ligand bonding in Transition Metal Complexes, Electronic spectra of Transition Metal Complexes
February	B.Sc. Sem-IV	Unit-II	Isomerism in coordination compounds, Oxidation and reduction.

(Signature)

Month	Subject	Unit	Topic to be covered
February	B.Sc. Sem-VI	Unit-II	Magnetic Properties of Transition Metal Complexes, Thermodynamic and Kinetic aspect of metal complexes.
March	B.Sc. Sem-IV	Unit-III	Organometallic Chemistry, Metal carbonyls.
	B.Sc. Sem-VI	Unit-III	Colorimetry and Spectrophotometry, Separation Techniques.
April	B.Sc. Sem-IV	Unit-IV	Bioinorganic Chemistry, Hard and Soft Acids and Bases.
	B.Sc. Sem-VI	Unit-IV	Inorganic Polymers: Silicones, Phosphonitrilic halide polymers.
May	B.Sc. Sem-IV B.Sc. Sem-VI		Revision Revision

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Nabira Mahavidyalaya, Katol



Teaching Plan -2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of Teacher: **Mr. Kailas A. More**

Dept: Chemistry

Subject/Paper: Chemistry, P-I & P-II

Class: B.Sc. Sem-III, P-II, Sem-II, P-I

Month	Subject	Unit	Topic to be covered
June			
July	B.Sc. Sem-III	Unit-I	Orientation, Alkyl and Aryl halides,
August	B.Sc. Sem-III	Unit-I	Polyhalogen compounds
	B.Sc. Sem-I	Unit-I	Thermodynamics and Thermochemistry
September	B.Sc. Sem-III	Unit-II	Alcohol-dihydric alcohol, Trihydric alcohols, Phenols
	B.Sc. Sem-I	Unit-I,II	Thermochemistry, Gaseous State P-I
October	B.Sc. Sem-III	Unit-III	Aldehydes and ketones
	B.Sc. Sem-I	Unit-II, III	Gaseous State P-II, Liquid State, Properties of Liquids
November	B.Sc. Sem-III	Unit-IV	Carboxylic Acids, Dicarboxylic acids, Carboxylic Acid Derivatives, Agrochemicals
	B.Sc. Sem-I	Unit-IV	Surface Chemistry & Colloidal State
December	B.Sc. Sem-II	Unit-I	Structure and Bonding, Mechanism of Organic Reactions
January	B.Sc. Sem-II	Unit-II	Stereochemistry of Organic Compounds, Geometrical isomerism
February	B.Sc. Sem-II	Unit-III	Alkanes, Cycloalkanes

March	B.Sc Sem-II	Unit -III	Alkenes
April	B.Sc. Sem-II	Unit-IV	Dienes, Alkynes
May	B.Sc. Sem-II	Unit-IV	Fuel Chemistry



Mr. Kailas A. More
Assistant Professor
Department of Chemistry
Kabira Mahavidyalaya, K...

DEPARTMENTAL ACTION PLAN
2022-2023
PG DEPARTMENT OF CHEMISTRY

Sr. No.	Events/Particulars (Semester 1)	Month Wise Plan
1	Meetings of Mentor and mentee	Second week of August 2022
2	Workshop on microscale technique /Green Chemistry Technique	Last week of August 2022
3	Student Seminars	1/9/2022 to 10/9/2022
4	Food Adulteration Janjagruti Abhiyan Best Practices 1	Third Week of September 2022
5	Village School Adoption Best Practices 2	Last Week of September 2022
6	Industrial Visit and training	First week of Oct.2022
7	Workshop on Chemistry Laboratory Technique	First Week of December 2022
8	Organize Guest Lecture on different topics chemistry	Second Week of Feb. 2023
9	Educational Visit/Tour	First week of March, 2023.
10	Role play competition	Second Week of March 2023.
11	Meeting of Parents –Teacher Association	Last week of March, 2022
12	Industrial Visit	First week of April 2023


 Co-ordinator

P.G. Department of Chemistry
 Nabira Mahavidyalaya, Katol

Nabira Mahavidyalaya Katol

Time Table for M.Sc. (Chemistry) SEM-I Winter (2022)

Day/ Time	9.30 to 10:30 AM	10:30 to 11:30 AM	11:30 to 12.30 AM	12.30 to 1.00 P.M.	1.00 to 2.00 PM	2.00 to 3.00 PM	3.00 to 4.00 PM
Monday	Seminar (RBB)	Physical Chemistry (SMM)	Inorganic Chemistry (RBB)	Lunch Break	Analytical Chemistry Practical (NVG+KK)		
Tuesday	Seminar (RBB)	Physical Chemistry (SMM)	Inorganic Chemistry (RBB)	Lunch Break	Analytical Chemistry Practical (NVG+KK)		
Wednesday	Inorganic Chemistry (RBB)	Physical Chemistry (SMM)	Organic Chemistry (NRS)	Lunch Break	Analytical Chemistry Practical (NVG+KK)		
Thursday	Inorganic Chemistry (RBB)	Seminar (NVG)	Organic Chemistry (NRS)	Lunch Break	Organic Chemistry Practical (KAM-RBB)		
Friday	Analytical Chemistry (KK)	Organic Chemistry (NRS)	Seminar (NVG)	Lunch Break	Organic Chemistry Practical (NGJ-RBB)		
Saturday	Analytical Chemistry (KK)	Organic Chemistry (NRS)	Inorganic Chemistry (RBB)	Lunch Break	Organic Chemistry Practical (NGJ-RBB)		


 Co-ordinator
 P.G. Department of Chemistry
 Nabira Mahavidyalaya, Katol

Nabira Mahavidyalaya Katol

Time Table for M.Sc. (Chemistry) SEM-II Winter (2022)

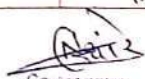
Day/ Time	9.30 to 10:30 AM	10:30 to 11:30 AM	11:30 to 12.30 AM	12.30 to 1.00 P.M.	1.00 to 2.00 PM	2.00 to 3.00 PM	3.00 to 4.00 PM
Monday	Analytical Chemistry (BRK)	Physical Chemistry (SMM)	Inorganic Chemistry (RBB)	Lunch Break	Analytical Chemistry Practical (NVG-KMM)		
Tuesday	Analytical Chemistry (BRK)	Physical Chemistry (SMM)	Inorganic Chemistry (RBB)	Lunch Break	Analytical Chemistry Practical (NVG-KMM)		
Wednesday	Inorganic Chemistry (RBB)	Physical Chemistry (SMM)	Organic Chemistry (KAM)	Lunch Break	Analytical Chemistry Practical (NVG-KMM)		
Thursday	Inorganic Chemistry (RBB)	Seminar (SMM)	Organic Chemistry (NRS)	Lunch Break	Organic Chemistry Practical (NVG-RBB)		
Friday	Analytical Chemistry (BRK)	Organic Chemistry (NRS)	Seminar (RBB)	Lunch Break	Organic Chemistry Practical (NVG-RBB)		
Saturday	Analytical Chemistry (BRK)	Organic Chemistry (NRS)	Inorganic Chemistry (RBB)	Lunch Break	Organic Chemistry Practical (NVG-RBB)		


 Co-ordinator
 P.G. Department of Chemistry
 Nabira Mahavidyalaya, Katol

Nabira Mahavidyalaya Katol

Time Table for M.Sc. (Chemistry) SEM-III Summer (2023)

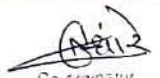
Day/ Time	9:30-10:30 A.M.	10:30-11:30 A.M	11:30-12:30 A.M.	12.30 to 1.00 PM	1:00 to 2:00 PM	2:00 to 3:00 PM
Monday	Organic Chemistry Practical (NVG+KMM)			Lunch Break	Polymer Chemistry (KMM)	SEMINAR
Tuesday	Organic Chemistry Practical (HMA+VSJ)			Lunch Break	Polymer Chemistry (KMM)	SEMINAR
Wednesday	Organic Chemistry Practical (HMA+VSJ)			Lunch Break	Polymer Chemistry (KMM)	Polymer Chemistry (KMM)
Thursday	Organic Chemistry (NRS)	Spectroscopy (PK)	Organic Chemistry (NRS)	Lunch Break	Spectroscopy (VSJ)	Organic Chemistry (NRS)
Friday	Organic Chemistry (HMA+VSJ)	Spectroscopy (HMA)	Polymer Chemistry (KMM)	Lunch Break	Organic Chemistry (NRS)	Spectroscopy (PGG)
Saturday	Organic Chemistry (HMA+VSJ)	Spectroscopy (NVJ)	Organic Chemistry (NRS)	Lunch Break	Spectroscopy (HMA+RBB)	Organic Chemistry (NRS)


 Co-ordinator
 P.G. Department of Chemistry
 Nabira Mahavidyalaya, Katol

Nabira Mahavidyalaya Katol

Time Table for M.Sc. (Chemistry) SEM-IV; Summer (2023)

Day/ Time	9:30-10:30 A.M.	10:30-11:30 A.M	11:30-12:30 A.M.	12.30 to 1.00 PM	1:00 to 2:00 PM	2:00 to 3:00 PM
Monday	Organic Chemistry Practical (HMA+VSJ)			Lunch Break	Polymer Chemistry (KMM)	SEMINAR
Tuesday	Organic Chemistry Practical (HMA+VSJ)			Lunch Break	Polymer Chemistry (KMM)	SEMINAR
Wednesday	Project (NVG)			Lunch Break	Polymer Chemistry (KMM)	Polymer Chemistry (KMM)
Thursday	Organic Chemistry (NRS)	Spectroscopy (PGG)	Organic Chemistry (KAM)	Lunch Break	Spectroscopy (VSJ)	Organic Chemistry (NRS)
Friday	Organic Chemistry (AMP)	Spectroscopy (PGG)	Polymer Chemistry (KMM)	Lunch Break	Organic Chemistry (VSJ)	Spectroscopy (HMA)
Saturday	Organic Chemistry (AMP)	Spectroscopy (NVJ)	Organic Chemistry (NRS)	Lunch Break	Spectroscopy (VSJ)	Organic Chemistry (HMA+VSJ)


 Co-ordinator
 P.G. Department of Chemis
 Nabira Mahavidyalaya, Katol



Shikshan Prasark Mandal's
Nabira Mahavidyalaya, Katol
PG Department of Chemistry



Notice

Date: 03/05/2023

It is informed to all faculty members that there is a meeting on 08/05/2023 at 10:00 a.m. to discuss the syllabus completion of M.Sc.- Sem-II and M.Sc.-Sem-IV.

All are requested to attend the meeting with mentioned records.

Dr. Nilesh V. Gandhare

Co-ordinator
P.G. Department of Chemistry
Nabira Mahavidyalaya, Katol

- ① Miss. R. B. Bowode -
- 2) Miss. K. M. Masqoom -
- 3) Miss S. M. Munne -
- 4) Mr. H. M. Alone -
- 5) Mr. V. S. Juwale -
- 6) Miss. N. R. Sembekar -



Shikshan Prasark Mandal's
Nabira Mahavidyalaya, Katol
PG Department of Chemistry



Notice

Date 16/12/2022

It is informed to all faculty members that there is a meeting on 20/12/2022 at 10:00 a.m. to discuss the syllabus completion of M.Sc.- Sem-I and M.Sc.-Sem-III.

All are requested to attend the meeting with mentioned records.

Dr. Nilesh V. Gandhare

Co-ordinator
P.G. Department of Chemistry
Nabira Mahavidyalaya, Katol

- ① Miss. R. B. Bowade -
- ② -- K. M. Masram -
- ③ -- S. M. Manne -
- ④ Mr. H. M. Alone -
- ⑤ Mr. V. S. Juwale -
- ⑥ Miss N. R. Sembekar -



PG Department of Chemistry

Nabira Mahavidyalaya, Katol

Academic Year- 2022-2023



Completion of Syllabus for M.Sc. Sem-I, III, II, IV

Sr. No.	Name of Teacher	Subject	Class	% of Syllabus completed
1.	Dr. N.V. Gandhare	Inorganic Chemistry	M.Sc. Sem-I (1 Unit)	25%
2.	Miss. B.R. Kalambe	Analytical Chemistry	M.Sc. Sem-I	97%
3.	Miss. R. B. Bowade	Inorganic Chemistry	M.Sc. Sem-I (3 Unit)	74%
4.	Miss. N.R. Sembekar	Organic Chemistry	M.Sc. Sem-I	96%
5.	Miss. S. M. Munne	Physical Chemistry	M.Sc. Sem-I	95%
6.	Miss. R. B. Bowade	Practical-I -Inorganic Chemistry	M.Sc. Sem-I	50%
7.	Dr. N.V. Gandhare	Practical-I -Inorganic Chemistry	M.Sc. Sem-I	50%
8.	Miss. B. R. Kalambe	Practical-II -Physical Chemistry	M.Sc. Sem-I	100%
9.	Dr. N. V. Gandhare	Seminar-I	M.Sc. Sem-I	100%
10.	Miss. R. B. Bowade	Inorganic Chemistry	M.Sc. Sem-II	100%
11.	Miss. N.R. Sembekar	Organic Chemistry	M.Sc. Sem-II	99%
12.	Miss. S. M. Munne	Physical Chemistry	M.Sc. Sem-II	99%
13.	Miss. B. R. Kalambe	Analytical Chemistry	M.Sc. Sem-II	100%
14.	Miss. R. B. Bowade	Practical -III- Organic Chemistry	M.Sc. Sem-II	100%
15.	Miss. S. M. Munne	Practical -IV- Analytical	M.Sc. Sem-II	100%
16.	Mr. N. G. Jadhao	Seminar-II	M.Sc. Sem-II	100%
17.	Mr. H. M. Alone	Special-I: Organic Chemistry	M.Sc. Sem-III	50%
18.	Mr. V. S. Juware	Special-I: Organic Chemistry	M.Sc. Sem-III	50%
19.	Miss. N. R. Sembekar	Special-II: Organic Chemistry	M.Sc. Sem-III	100%
20.	Miss. K. M. Masaram	Paper XI: Elective- Polymer Chemistry	M.Sc. Sem-III	100%
21.	Mr. H. M. Alone	Paper XII: Core Subject Centric - I: Spectroscopy- I	M.Sc. Sem-III	75%
22.	Miss. R. B. Bowade	Paper XII: Core Subject Centric - I: Spectroscopy- I	M.Sc. Sem-III	25%
23.	Mr. H. M. Alone	Practical-V: Organic Chemistry Special	M.Sc. Sem-III	100%
24.	Mr. V. S. Juware	Practical VI – Elective: Polymer Chemistry Practical	M.Sc. Sem-III	100%
25.	Dr. N. V. Ghandhare	Seminar-III	M.Sc. Sem-III	100%
26.	Miss. N. R. Sembekar	Paper XIII: Special I-Organic Chemistry	M.Sc. Sem-IV	100%
27.	Mr. H. M. Alone	Paper XIV: Special II-Organic Chemistry	M.Sc. Sem-IV	50%

28.	Mr. V. S. Juware	Paper XIV: Special II-Organic Chemistry	M.Sc. Sem-IV	50%
29.	Miss. K. M. Masaram	Paper XV: Elective- Polymer Chemistry	M.Sc. Sem-IV	100%
30.	Mr. H. M. Alone	Paper XVI: Core Subject Centric –II Spectroscopy – II	M.Sc. Sem-IV	50%
31.	Mr. V. S. Juware	Paper XVI: Core Subject Centric –II Spectroscopy – II	M.Sc. Sem-IV	50%
32.	Dr. N. V. Gandhare	Practical-VII: Organic Chemistry Special Practical	M.Sc. Sem-IV	100%
33.	Dr. N. V. Gandhare	Practical VIII: Project	M.Sc. Sem-IV	100%
34.	Miss. N. R. Sembekar	Seminar-IV	M.Sc. Sem-IV	100%



Dr. N. V. Gandhare
 Co-ordinator
 P.G. Department of Chemistry
 Nabira Mahavidyalaya, Katol



Nabira Mahavidyalaya, Katol

Teaching Plan -2022-2023



To be Submitted to the Teacher Appraisal Committee

Name of Teacher: Miss. Rituja B. Bowade

Dept: Chemistry

Subject/Paper: Inorganic Chemistry, Spectroscopy

Class: M.Sc.Sem.I,II, III

Month	Subject	Unit	Topic to be covered
June			
July			
August	M.Sc. Sem I	Unit I	A) Stereochemistry and Bonding in main group compound -VSEPER B) Metal-Ligand Bonding -CFT
	M.Sc. Sem III	Unit III	A) Microwave Spectroscopy B) ESR Spectroscopy
September	M.Sc. Sem I	Unit II	A) Metal-Ligand Equilibria In Solution B) Reaction Mechanism of Transition Metal Complexes
	M.Sc. Sem III	Unit IV	A) Infrared Spectroscopy B) Raman Spectroscopy
October	M.Sc. Sem I	Unit III	Cluster -1 A) Boron Hydrides
November	M.Sc. Sem III	Unit IV	Cluster -2 A) Metal- Metal Bond B) Isopoly, Heteropoly acid and their anions Practical (Inorganic chemistry practical) A) Preparation of Inorganic Complexes and their characterization B) Separation and Determination of two metal ion C) Semi-micro analysis of Inorganic mixture

CO-ordinator

P.G. Department of Chemistry
Nabira Mahavidyalaya, Katol

R. B. Bowade

December			Revision
January	M.Sc. Sem I	Unit I	A) Electronic Spectra of Transition metal complexes B) Magnetic properties of Transition metal complex
February	M.Sc. Sem I	Unit II	A) Reaction mechanism of Transition metal complexes-II
March	M.Sc. Sem I	Unit III	A) Metal pi-Complexes- I Metal Carbonyl
April	M.Sc. Sem I	Unit IV	A) Metal pi-Complexes-II Metal Nitrosyl
May			Revision



Co-ordinator

P.G. Department of Chemistry
Nabira Mahavidyalaya, Katol



Nabira Mahavidyalaya, Katol



Teaching Plan -2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of Teacher: Mr. Hemant M. Alone

Dept: PG Department of Chemistry

Subject/Paper: Chemistry, P-I & P-II

Class: M.Sc. Sem-III, P-I, Sem-IV, P-I

Month	Subject	Unit	Topic to be covered
June			
July	M.Sc. Sem-III		
August	M.Sc. Sem-III	Unit-III	Oxidation Reduction
September	M.Sc. Sem-III	Unit-III	Oxidation Reduction
October	M.Sc. Sem-III	Unit-IV	Chemistry of P, S, I and boron compound
November	M.Sc. Sem-III	Unit-II	Mass and Mossbauer Spectroscopy
December	M.Sc. Sem-III		Examination Revision
January	M.Sc. Sem-IV	Unit-III	Advanced Stereochemistry & Protection and deprotection of functional groups.
February	M.Sc. Sem-IV	Unit-IV	Designing the synthesis based on retrosynthetic analysis.
March	M.Sc. Sem-IV	Unit-II	Nuclear magnetic Resonance Spectroscopy
April	M.Sc. Sem-IV	Unit -III	Application of NMR Spectroscopy
May	M.Sc. Sem-IV		Examination Revision

Co-ordinator
P.G. Department of Chemistry
Nabira Mahavidyalaya, K.

Mr. Hemant M. Alone



Nabira Mahavidyalaya, Katol



Teaching Plan -2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of Teacher: Mr. Vishal S. Juware


Dept: Chemistry

Subject/Paper: Organic Chemistry, Spectroscopy Class: M.Sc. II Sem III, IV

Month	Subject	Unit	Topic to be covered
June			
July			
August	M.Sc. III – Sem	Unit-I	Photochemistry
September	M.Sc. III - Sem	Unit -II	Pericyclic Reaction
October	M.Sc-III – Sem	Practical	Polymer chemistry
November	M.Sc.-III-Sem	Practical	Polymer chemistry
December	M.Sc.-III-Sem		Revision
January	M.Sc.-IV-Sem	Unit I	Organic chemistry A) Carbanion in organic Chemistry B) Organometallic Reagent - I
February	M.Sc.-IV-Sem	Unit II	A) Organometallic Reagent – II B) Transition metals in organic synthesis

March	M.Sc.-IV-Sem	Unit I	Spectroscopy II A) UV spectroscopy B) Photoelectron Spectroscopy
April	M.Sc- IV- Sem	Unit IV	A) X- Ray Diffraction B) Electron Diffraction
May	M. Sc- IV Sem		Revision
June			


 Co-ordinator
 P.G. Department of Chemistry
 Nabira Mahavidyalaya, Kato


 Vishal S. Juwale



Nabira Mahavidyalaya, Katol



Teaching Plan -2022-2023

To be Submitted to the Teacher Appraisal

Committee

Name of Teacher: Miss. Nilima R. Sembekar

Dept: Chemistry

Subject/Paper: Chemistry, P-I & P-II

Class: M.Sc. Sem I, Sem II, Sem III, Sem IV

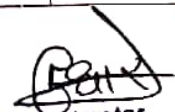
Month	Subject	Unit	Topic to be covered
June			
July			
August	M.Sc. Sem-I	Unit-I	A) Nature and Bonding in Organic Molecule B) Reactive Intermediates
	M.Sc. SemIII	Unit-I	A) Terpenoids B) Porphyrins
September	M.Sc. Sem-I	Unit-II	Stereochemistry
	M.Sc. SemIII	Unit-II	A) Alkaloids B) Prostaglandins
October	M.Sc. Sem-I	Unit-III	A) Reaction mechanism B) Aliphatic nucleophilic substitution C) Concept of neighboring group participation Anchimeric assistance
	M.Sc. SemIII	Unit-III	A) Steroids B) Plant Pigments:
November	M.Sc. Sem-I	Unit-IV	A) Aromatic Nucleophilic Substitution B) Aromatic electrophilic substitution C) Effect of Structure on reactivity
December	M.Sc. SemIV M.Sc. SemIV		Revision Revision

Co-ordinator

P.G, Department of Chemistry
Nabira Mahavidyalaya, Katol

January	M.Sc. SemII	Unit-I	A] Addition to carbon-carbon multiple bond B] Addition to carbon-hetero atom multiple bond
	M.Sc. SemIV	Unit-I	A] Enzymes B] Mechanism of Enzyme Action C] Co-Enzyme Chemistry

February	M.Sc. Sem-II	Unit-II	A) Mechanism of molecular rearrangement B) Elimination reactions
	M.Sc. Sem-IV	Unit-II	A] Azoles B] Benzofused heterocycles C] Diazines:
March	M.Sc. Sem-II	Unit-III	Free radical reactions
	M.Sc. SemVI	Unit-III	A)Nucleic Acids B) lipid C) Vitamin
April	M.Sc. Sem-II	Unit-IV	Green chemistry
	M.Sc. SemIV	Unit-IV	A)Dyes B] Pharmaceutical chemistry C) polymer chemistry
May	M.Sc. Sem-II		Revision
	M.Sc. SemIV		Revision


 Co-ordinator
 P.G. Department of Chemistry
 Nabira Mahavidyalaya, Kato



Nabira Mahavidyalaya, Katol



Teaching Plan -2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of Teacher: Miss. Komal M. Masaram

Dept: Chemistry

Subject/Paper: Polymer Chemistry,

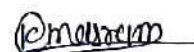
Class: M.Sc.Sem III ,IV

Month	Subject	Unit	Topic to be covered
June			
July			
August	M.Sc. Sem III	Unit I	A) Introduction to Polymer
September	M.Sc. Sem III	Unit II	A) Molar Mass and its Determination
October	M.Sc. Sem III	Unit III	A) Physical characteristics of Polymer
November	M.Sc. Sem III	Unit IV	Commercial Polymer A) Organic Polymer B) Functional Polymer
December			Revision
January	M.Sc. Sem IV	Unit I	A) Polymerization


Co-ordinator

P.G. Department of Chemistry
Nabira Mahavidyalaya, Katol

Miss. Komal M. Masaram



February	M.Sc. Sem IV	Unit II	A) Techniques of polymerization
March	M.Sc. Sem IV	Unit III	A) Characterization of Polymers
April	M.Sc. Sem IV	Unit IV	Specific Polymers A) Biomedical Polymers B) Inorganic Polymers C) Coordination Polymers
May			Revision

Co-ordinator
P.G. Department of Chemistry
Nabira Mahavidyalaya, Katol



Nabira Mahavidyalaya, Katol



Teaching Plan -2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of Teacher: Miss. Shubhangi M. Munne

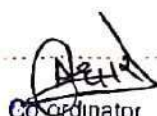
Dept: PG Department of Chemistry

Subject/Paper: Physical Chemistry

Class: M.Sc. Sem-I. Physical,

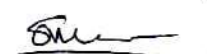
Sem-II, Physical

Month	Subject	Unit	Topic to be covered
June			
July	M.Sc. Sem-I		
August	M.Sc. Sem-I	Unit-I	Classical Thermodynamics
September	M.Sc. Sem-I	Unit-II	Gibbs Function & Phase Equilibria
October	M.Sc. Sem-I	Unit-III	Surface Phenomenon & Macromolecule
November	M.Sc. Sem-I	Unit-IV	Chemical Kinetics
December	M.Sc. Sem-I		Examination Revision
January	M.Sc. Sem-II	Unit-I	Quantum Mechanics
February	M.Sc. Sem-II	Unit-II	Thermodynamics
March	M.Sc. Sem-II	Unit-III	Solid State Chemistry
April	M.Sc. Sem-II	Unit -IV	Statistical Thermodynamics & Nuclear Chemistry
May	M.Sc. Sem-II		Examination Revision


Coordinator

P.G. Department of Chemistry,
Nabira Mahavidyalaya, Katol

Mrs. Shubhangi Munne





Nabira Mahavidyalaya, Katol



Teaching Plan -2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of Teacher: Kalyani Kudupale

Dept: Chemistry

Subject/Paper: Analytical Chemistry

Class: M.Sc. I – Sem II

Month	Subject	Unit	Topic to be covered
June	-		
July	-		
August	-		
September	-		
October	-		
November	-		
December	-		
January	-		
February	M.Sc. I – Sem	Unit-I	Sampling and quantification
March	M.Sc. I- Sem	Unit -II	Modern Separation technique
April	M.Sc-I – Sem	Unit-III	Optical methods of analysis
May	M.Sc.-I-Sem	Unit-IV	Electrochemical methods of analysis-II
June	-	-	-

Co-ordinator

P.G. Department of Chemistry
Nabira Mahavidyalaya, Katol

Kalyani A. Kudupale



NABIRA MAHAVIDYALAYA KATOL



Department of Mathematics

Session-2022-23

***1.1.1 – Action Plan, Teaching Plans, Time Tables, and
Departmental meeting
(UG and PG)***

DEPARTMENT OF MATHEMATICS
ACTION PLAN FOR THE SESSION 2022-23

Month	Activities
July	<ul style="list-style-type: none"> • Distribution of subjects to be taught among the faculty members • Bridge Course for Freshers • Departmental meeting
August	<ul style="list-style-type: none"> • To organize the Guest Lecture/Webinar • Unit Tests/ Open book exam (for internal assessment)
September	<ul style="list-style-type: none"> • Students seminars • Remedial Classes for slow learners • Unit Tests/ Open book exam (for internal assessment)
October	<ul style="list-style-type: none"> • MCQ tests based on syllabus will be conducted as a part of their internal assessment and to prepare the students for inter-collegiate Mathematics Quiz competition • Students Seminars • Remedial Classes for slow learners • Home assignments will be given to the students as a part of their internal assessment • Diwali Vacation (20 Oct. to 29 Oct. 2022)
November	<ul style="list-style-type: none"> • Submission of Home assignments by the students • Preparation and submission of Internal assessment marks • Winter-Vacation (19 Nov. to 07 Nov. 2022) • University Theory Examination (college level) for odd semesters
December	<ul style="list-style-type: none"> • University Theory Examination (college level) for odd semesters • Departmental meeting • National Mathematics Day Celebration
January	<ul style="list-style-type: none"> • To organize the Guest Lecture/Webinar • Unit Tests/ Open book exam (for internal assessment)
February	<ul style="list-style-type: none"> • Students seminars • Remedial Classes for slow learners • Unit Tests/ Open book exam (for internal assessment) • Home assignments will be given to the students as a part of their internal assessment
March	<ul style="list-style-type: none"> • MCQ tests based on syllabus will be conducted as a part of their internal assessment and to prepare the students for inter-collegiate Mathematics Quiz competition • Remedial Classes for slow learners • Students seminars • Submission of Home assignments by the students
April	<ul style="list-style-type: none"> • Preparation and submission of Internal assessment marks • University Examination work
May	<ul style="list-style-type: none"> • Summer Vacation • University Examination work
June	<ul style="list-style-type: none"> • Summer Vacation • University Examination work



Mr. N. T. KATRE
Asst. Prof & Head

NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2022-23

B. Sc. I: Semester-I

Name of the Teacher: Mr. N. T. Katre

Subject/ Paper: P-1: M-1: Elementary Mathematics

Month	Paper_Unit	Topics /Content
August 2022	M-1_Unit-1	Complex Numbers
September 2022	M-1_Unit-2	Matrices
October 2022	M-1_Unit-3	Theory of Equations
November 2022	M-1_Unit-4	Elementary Number Theory



Signature

NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2022-23

B. Sc. I: Semester-I

Name of the Teacher: Mr. R. B. Chaware

Subject/ Paper: P-2: M-2: Differential and Integral Calculus

Month	Paper_Unit	Topics /Content
September 2022	M-2_Unit-1	Leibnitz's theorem, MaClaurin's and Taylor's theorems, Indeterminate forms.
October 2022	M-2_Unit-2	Functions of two variables; Limit, continuity, and Partial derivatives; Homogeneous functions; Theorems on total differentials, composite functions; differentiation of composite functions; Asymptotes; Envelopes.
November 2022	M-2_Unit-3	Jacobians, Taylor's series of two variables, Maxima and Minima of function of two variables, Lagrange's method of multiplier.
	M-2_Unit-4	Integration, Reduction formulae.

R. B. Chaware
(R. B. Chaware)
Signature

NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

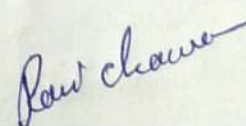
Teaching Plan-2022-23

B. Sc. II: Semester-III

Name of the Teacher: Mr. R. B. Chaware

Subject/ Paper: P-1: M-5: Partial Differential Equations & Calculus of Variations

Month	Paper_Unit	Topics /Content
September 2022	M-5_Unit-1	Simultaneous differential equations of first order and first degree in three variables, Methods of solution of $dx/P = dy/Q = dz/R$. Pfaffian differential forms and equations, Solution of Pfaffian differential equation in three variables.
	M-5_Unit-2	Linear equations of first order, Integral surface passing through a given curve, Compatible system of first order equations.
October 2022	M-5_Unit-2	Charpit's method, Jacobi's method
	M-5_Unit-3	Partial differential equation (PDEq) of second order, Linear PDEq with constant coefficients and their solutions
November 2022	M-5_Unit-4	Calculus of variations



Signature

NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS


Teaching Plan-2022-23

B. Sc. II: Semester-III

Name of the Teacher: Mr. N. T. Katre

Subject/ Paper: P-2: M-6: Modern Algebra

Month	Paper_Unit	Topics /Content
August 2022	M-1_Unit-1	Definition of a Group. Some examples of Group, some preliminary lemma, Sub group, A counting principle.
September 2022	M-1_Unit-2	Normal sub-group and Quotient Group, Homomorphism, Permutation groups.
October 2022	M-1_Unit-3	Definition and examples of rings, Some special classes of rings, Homomorphisms, Ideals and Quotient rings, More ideals and Quotient rings.
November 2022	M-1_Unit-4	The field of Quotients of an integral domain, Euclidean rings, A particular Euclidean ring, Polynomial rings.


Signature

NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan: 2022-23


B. Sc. III: Semester-V

Name of the Teacher: Mr. N. T. Katre

Subject/ Paper: P-1: M-9: Complex Analysis,

P-2: M-10: Metric Space, Boolean & Graph Theory (Optional)

Month	Paper_Unit	Topics /Content
July 2022	M-9_Unit-1	Functions of complex variables: Limit, continuity, differentiability, analytic functions, C-R equations, Orthogonal curves, harmonic functions, conjugate functions, Milne-Thomson method..
August 2022	M-9_Unit-2 M-10_Unit-1	Conformal and Bilinear transformations, Schwarz-Christoffel transformation. Countability of sets, Metric space, Neighbourhood, Limit points, interior points, open set, closed set, closure and interior of the set.
September 2022	M-10_Unit-2 M-9_Unit-3	Completeness, Compactness, Connectedness. Complex Integration
October 2022	M-9_Unit-4	Convergence of a series of complex terms, Taylor's Theorem, Laurent's Theorem, Residue Theorem, Contour integration.
November 2022	M-10_Unit-3 M-10_Unit-4	Lattices and Boolean algebra Graph Theory, Trees.


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Department of MATHEMATICS

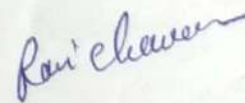
Teaching Plan-2022-23

B. Sc. I: Semester-II

Name of the Teacher: Mr. R. B. Chaware

Subject/ Paper: P-1: M-3: Geometry, Differential & Difference Equations

Month	Paper_Unit	Topics /Content
January 2023	M-3_Unit-1	Equation of a sphere, Plane section of a sphere.
February 2023	M-3_Unit-1 M-3_Unit-2	Intersection of two spheres, A sphere through a given circle, Intersection of a sphere and a line, Plane of contact, Condition for the orthogonality of two spheres, The right circular cone, The right circular cylinder. Families of curves, Orthogonal trajectories, Exact equations, integrating factors, linear and Bernoulli's equations, reduction of order.
March 2023	M-3_Unit-3	Second order ordinary linear differential equations.
April 2023	M-3_Unit-4	Difference equations.



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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2022-23

B. Sc. I: Semester-II

Name of the Teacher: Mr. N. T. Katre

Subject/ Paper: P-2: M-4: Vector Analysis

Month	Paper_Unit	Topics /Content
January 2023	M-4_Unit-1	Vector differentiation, Differential geometry.
February 2023	M-4_Unit-1 M-4_Unit-2	Gradient, Divergence and Curl. Evaluation of double and Triple integrals, Beta and Gamma functions.
March 2023	M-4_Unit-3	Ordinary integrals of vectors, Line integral, Surface integral, Volume integral.
April 2023	M-4_Unit-4	Green's theorem, Gauss divergence theorem, stoke's theorem.


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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2022-23

B. Sc. II: Semester-IV

Name of the Teacher: Mr. N. T. Katre

Subject/ Paper: P-1: M-7: Real Analysis

Month	Paper_Unit	Topics /Content
January 2023	M-7_Unit-1	Bounded sets, Completeness, Archimedean property of \mathbb{R} , Absolute value of Real Number.
February 2023	M-7_Unit-1 M-7_Unit-2	Neighborhoods, Open Sets, Interior point of a set, Limit point of a set, Bolzano-Weierstrass theorem, Closed sets, Closure of a set. Sequences
March 2023	M-7_Unit-3	Infinite series
April 2023	M-7_Unit-4	Riemann Integration



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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

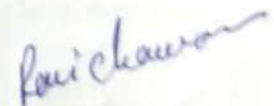
Teaching Plan-2022-23

B. Sc. II: Semester-IV

Name of the Teacher: Mr. R. B. Chaware

Subject/ Paper: P-2: M-8: Mechanics

Month	Paper_Unit	Topics /Content
January 2023	M-8_Unit-1	Power series solutions (Half portion)
February 2023	M-8_Unit-1	Power series solution (Remaining Half portion).
	M-8_Unit-2	Special functions
March 2023	M-8_Unit-3	Laplace Transforms
April 2023	M-8_Unit-4	Fourier series



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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan: 2022-23

B. Sc. III: Semester-VI

Name of the Teacher: Mr. N. T. Katre

Subject/ Paper: P-1: M-12: Linear Algebra

P-2: M-14: Special Theory of Relativity (Optional)

Month	Paper_Unit	Topics /Content
January 2023	M-12_Unit-1	Vector spaces, Sub-spaces, Span, Linear dependence and independence, Dimension and Basis
February 2023	M-12_Unit-2 M-14_Unit-1	Linear Transformations, Range, Kernel, Rank, Nullity, Inverse of lin. Transfn, Consequences of R-N theorem. Review of Newtonian mechanics: Inertial frames, Galilean relativity, space-time, special theory of relativity, Lorentz transformation.
March 2023	M-14_Unit-2 M-14_Unit-3 M-14_Unit-4	Relativistic Kinematics: Composition of parallel velocities; Transformation of velocity and acceleration components and contraction factor; Length contraction and time dilation. 4-dimensional Minkowskian space-time, intervals, proper time, light cone, world line, 4-vectors and tensors. Relativistic mechanics and Electromagnetism, transformations of mass, momentum, energy force, potential vector, field strengths, equations.
April 2023	M-12_Unit-3 M-12_Unit-4	L(U,V) space, Applications to OLDE's, Associated matrix and linear maps. Linear operations in matrices, Rank and nullity of a matrix, inner product spaces.



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NABIRA MAHAVIDYALAYA, KATOL
Department of MATHEMATICS
Teaching Plan-2022-23

M. Sc. I: Semester-I

Name of Teacher: Mr. Mohit P. Pawar

Subject/Paper:II: Real Analysis-I

Month	Unit	Content
September 2022	1	Uniform convergence and continuity, differentiation and integration. Equicontinuous families of functions. The Stone-Weierstrass theorem.
October 2022	2	Differentiation. The Contraction Principle. The Inverse function theorem. The Rank theorem. Partitions of unity.
November 2022	3	The space of tangent vectors at a point of R^n . Topological manifolds. Differential manifolds. Real Projective space. Grass man manifolds. Differentiable functions and mappings.
December 2022	4	Rank of a mapping. Immersion. Sub-manifolds. Lie groups with examples.


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NABIRA MAHAVIDYALAYA, KATOL
Department of MATHEMATICS
Teaching Plan-2022-23

M. Sc. I: Semester-I

Name of Teacher: **Mr. Mohit P. Pawar**

Subject/Paper: **IV: Ordinary Differential Equation**

Month	Unit	Content
September 2022	1	Linear equation with variable coefficient: IVP. Homogeneous equation and solutions, The Wronskian and linear dependence, the non-homogeneous equation, Legendre equations
October 2022	2	Linear equation with regular singular points: The Euler equations, Second order equations with regular singular points, The Bessel Equation, Regular singular points at infinity
November 2022	3	Existence and uniqueness of solutions of first order equations: The method of successive approximations With Lipschitz condition and convergence, non-local existence of solutions
December 2022	4	Existence and uniqueness of solutions to system of first order ordinary differential equations: Central forces and planetary motion, Green's function, Sturm Liouville theory


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NABIRA MAHAVIDYALAYA, KATOL
Department of MATHEMATICS
Teaching Plan-2022-23

M. Sc. I: Semester-II

Name of Teacher: Mr. Mohit P. Pawar

Subject/Paper: VII: Real Analysis-II

Month	Unit	Content
April 2023	1	Outer measure. Measurable sets and Lebesgue measure. Anon-measurable set, Measurable functions, Little-wood's three principles.
May 2023	2 3	The Riemann integral. Lebesgue integral of a bounded function over a set of finite measure. Integral of a non-negative function. Absolute continuity. Convex functions. L_p -spaces. Holder and Minkowski inequality. Riesz-Fischer theorem. Approximation in L_p . Bounded linear functionals on L_p spaces.
June 2023	4	Compact metric spaces. Baire category theorem. Arzela Ascoli theorem. Locally compact spaces. Sigma compact spaces.



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NABIRA MAHAVIDYALAYA, KATOL
Department of MATHEMATICS
Teaching Plan-2022-23

M. Sc. I: Semester-II

Name of Teacher: Mr. Mohit P. Pawar

Subject/Paper: VIII: Topology-II

Month	Unit	Content
April 2023	1	Continuous Functions: Continuous functions - the product topology - The metric topology.
May 2023	2	Connectedness: Connected spaces - connected subspace of the Real line - Components and local connectedness.
June 2023	3	Compactness: Compact spaces - compact subspaces of the Real line - Limit Point Compactness - Local Compactness.
	4	Countability And Separation Axiom: The Countability Axioms - The separation Axioms - Normal spaces - The Urysohn Lemma - The Urysohn metrization Theorem - The Tietz extension theorem.


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NABIRA MAHAVIDYALAYA, KATOL
Department of MATHEMATICS
Teaching Plan-2022-23

M. Sc. I: Semester-III

Name of Teacher: Mr. Mohit P. Pawar

Subject/Paper: XI: Complex Analysis-I

Month	Unit	Content
September 2022	1	Impossibility of ordering Complex numbers. Extended complex plane and stereographic projection. Elementary properties and analytic functions: Power series.
October 2022	2	Analytic functions as mappings, Mobius transformations. Power series representation and zeros of analytic functions, index of curve.
November 2022	3	Cauchy's theorem and integral formula, the homotopic version of Cauchy's theorem and simple connectivity, counting zeros; the open mapping theorem, Goursat's theorem, singularities and its classification, residue, the argument principles.
December 2022	4	The maximum principle. Schwarz's lemma. Convex functions and Hadamard's three circle theorem. Phragmen- Lindelöf theorem


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NABIRA MAHAVIDYALAYA, KATOL
Department of MATHEMATICS
Teaching Plan-2022-23

M. Sc. I: Semester-III

Name of Teacher: Mr. Mohit P. Pawar

Subject/Paper: XV: Operational Research-I

Month	Unit	Content
August 2022	1	Introduction of O.R.-I with scope. Linear programming problem and its solution by graphical, simplex, Big-M, two-phase method, duality in linear programming, degeneracy.
September 2022	2	Transportation problem: feasible and optimal solution by stepping-stone and MODI method. Assignment problem: Hungarian method, case of maximization, travelling salesman and crew assignment problem.
October 2022	3	Concept of stochastic process, Poisson process, Birth-death process, Queuing models: Basic components of queuing system, Steady-state solution of Markovian queuing models with single and multiple servers (M/M/1, M/M/C, M/M/1/k, M/M/C/k)
November 2022	4	Inventory control models: Economic order quantity (EOQ) model with uniform demand, EOQ when shortages are allowed, EOQ with uniform replenishment, Inventory control with price breaks.


Signature

NABIRA MAHAVIDYALAYA, KATOL
Department of MATHEMATICS
Teaching Plan-2022-23

M. Sc. I: Semester-IV

Name of Teacher: Mr. Mohit P. Pawar

Subject/Paper: XVI: Dynamical Systems

Month	Unit	Content
March 2023	1	Dynamical systems and vector fields. The fundamental theorem. Existence and uniqueness. Continuity of solutions in initial conditions. On extending solutions. Global solutions. The flow of a differential equation.
April 2023	2	Nonlinear sinks. Stability. Liapunov function. Gradient systems. Gradients and inner products.
	3	Limit sets, local sections and flow boxes, monotone sequences in planar dynamical systems. The Poincare Bendixson theorem, Applications of Poincare Bendixson theorem; one species, predator and prey, competing species.
May 2023	4	Asymptotic stability of closed orbits, discrete dynamical systems. Stability and closed orbits. Non Autonomous equations and differentiability of flows. Persistence of equilibria, persistence of closed orbits. Structural stability.


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NABIRA MAHAVIDYALAYA, KATOL
Department of MATHEMATICS
Teaching Plan-2022-23

M. Sc. I: Semester-IV

Name of Teacher: Mr. Mohit P. Pawar

Subject/Paper:XX: Operational Research-II

Month	Unit	Content
March 2023	1	Integer Programming: Gomory's cutting plane algorithm (All integer and mixed integer algorithms), Branch and Bound method.
April 2023	2 & 3	Revised simplex Method . Post optimal Analysis: Addition and deletion of variables and constraint. Change in coefficients of objective function , constant in constraints. Bounded variable technique for L.P.P. Unconstrained optimization, Constrained optimization with equality constraints- Lagrange's multiplier method, Interpretation of Lagrange multiplier.
May 2023	4	Queuing Theory: Basic features of queuing systems, operating characteristics of a queuing system, arrival and departure (birth & death) distributions, inter-arrival and service times distributions.


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Department of MATHEMATICS

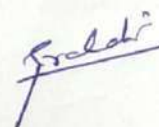
Teaching Plan-2022-23

M. Sc. I: Semester-I:

Name of the Teacher- **Mr. P.R.Lohi**

Subject/Paper: Integral Equation.

Month	Unit	Content
September 2022	1	Problems on integral equations, conversion of ordinary differential equations into integral equations integro-differential equations.
October 2022	2	Fredholm equations, Degenerate kernels, Hermitian and symmetric kernels. The Hilbert- Schmidt theorem, Green's function type kernels
November 2022	3	Voltera equations, resolvent kernel of voltera equations, convolution type Kernels, Fourier integral equations, Laplace integral equations.
December 2022	4	Hilbert transform, finite Hilbert transforms, integral transforms, Eigen values & Eigen functions.



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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS


Teaching Plan-2022-23

M. Sc. I: Semester-II:

Name of the Teacher- Mr. P.R.Lohi

Subject/Paper: Differential Geometry

Month	Unit	Content
April 2023	1	Curves on surface, Helicoids, Geodesics, Families of Curves.
May 2023	2	Normal Properties of Geodesics, Geodesic Curvature, Gaussian Curvature & Conformal mapping.
June 2023	3	Lines of Curvature, Developable & Minimal Surfaces.
June 2023	4	Hilbert's Lemma, Mean curvature & Complete Surfaces.


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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2022-23

M. Sc. I: Semester-II:

Name of the Teacher- **Mr. P.R.Lohi**

Subject/Paper: Classical Mechanics.

Month	Unit	Content
April 2023	1	Variational Principle and Lagrange Equations, Hamilton's Principle & Derivation of Lagrange's Equation.
May 2023	2	Legendre transformations and Hamilton equation of motion & cyclic coordinates.
	3	canonical Transformations, Poisson's Bracket & Canonical invariant.
June 2023	4	Infinitesimal canonical transformations and conservation theorem.


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Department of MATHEMATICS

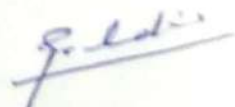
Teaching Plan-2022-23

M.Sc. II: Semester-III

Name of teacher: Mr P.R.Lohi

Subject/Paper : Mathematical methods

Month	Unit	Content
Aug & sept 2022	1	Fourier integral theorem, Fourier transforms and it's derivatives convolution integral & multiple Fourier transform
Oct 2022	2	Integral equations of convolution type Laplace equation, Diffusion equation
Nov 2022	3	Finite Fourier transform, Finite Sturm -Liouville transforms
Dec 2022	4	Finite Hankel transform, Finite Legendre transform, Finite Mellin transform


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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2022-23

M.Sc. II: Semester-III

Name of teacher- Mr. P.R.Lohi

Subject/Paper : General Relativity.

Month	Unit	Content
Aug & sept 2022	1	Tensors Algebra, Riemannian geometry, Curvature Tensor, Einstein Tensor, the Bianchi identity.
Oct 2022	2	Geodesic Principle, Geodesic equations, poisons equations, Einstein field equation.
Nov 2022	3	Exterior schwarzschild's solution, Schwarzschild's singularity Birkhoff's thm & gravitational Red shift.
Dec 2022	4	Newtonian incompressible star, schwarzschild's interior solution



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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2022-23

M. Sc. II: Semester-IV

Name of teacher- Mr. P.R.Lohi

Subject/Paper: Partial differential Equation.

Month	Unit	Content
March 2023	1	Curves and surfaces, First order PDE, compatible system of first order PDE
	2	Charpitz's methods, Jacobi methods, Cauchy problems, Quasi linear equations.
April 2023	3	second order partial differential Equations, method of separation of variables & wave equation.
May 2023	4	Laplace equation, Boundary value problems, Dirichlet problems, Neumann problems, Maximum minimum Principles, solution of Laplace equation in polar and spherical form.



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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2022-23

M. Sc. II: Semester-IV

Name of teacher- Mr. P.R.Lohi

Subject/Paper : Cosmology.

Month	Unit	Content
March 2023	1	Einstein and de sitter model of universe, Density and pressure, Motion of test particle & Doppler shift.
April 2023	2	Derivation of R-W model, motion of a particle and light rays in FRW, Red shift.
	3	Friedman model fundamental equation of dynamic cosmology, density and pressure of present universe.
May 2023	4	steady state cosmology, distance measure in cosmology & comoving distance, luminosity Distance Angular diameter and lookback time & galaxy count.


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Department of MATHEMATICS

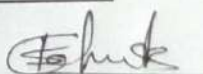
Teaching plan -2022-23

M.Sc. II: Semester-III:

Name of Teacher-P.S.Ghorpade

Subject/paper : Functional Analysis

Month	Unit	Content
Aug & Sept 2022	1	Normed spaces, Banach spaces, Further properties of normed spaces, Finite dimensional normed spaces and subspaces, Compactness and finite dimension Bounded and continuous Operators,
Oct 2022	2	Linear Functional, Normed spaces of operator Dual spaces, Inner product spaces, Orthogonal complements and direct Product Total orthonormal sets and sequence.
Nov 2022	3	Representation of functional on Hilbert spaces, Hilbert adjoint Operators, Hahn-Banach Theorem for complex vector spaces and normed spaces, Reflexive spaces
Dec 2022	4	Category theorem, Uniform boundedness theorem, strong and weak convergence, convergence of sequences of operators and functionals, Open mapping theorem, Closed graph theorem.


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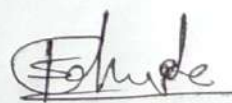
Teaching plan -2022-23

M. Sc. I: Semester-II:

Name of Teacher-P.S.Ghorpade

Subject/paper : Algebra-II

Month	Unit	Content
April 2022	1	Unique factorization domains, principal ideal domain, Euclidean domains, polynomial ring over U.F.D.
May 2022	2	Irreducible polynomials and Eisenstein criterion, adjunction of roots, splitting fields Normal extension multiple roots .
	3	Finite fields, separable extension Automorphism groups and fixed fields fundamental theorem of galois theory, fundamental theorem of algebra
June 2022	4 half portion	Roots of unity and cyclotomic polynomials. Cyclic extension, polynomials solvable by radicals ruler and compass constructions


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Department of MATHEMATICS

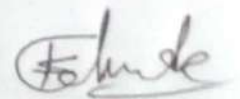
Teaching plan -2022-23

M.Sc. II: Semester-IV:

Name of Teacher-P.S.Ghorpade

Subject/paper: Advanced Numeric Analysis

Month	Unit	Content
March 2022	1	Simple enclosure methods, Secant method, Newtons method, general theory for one point iteration method. Aitken extrapolation for linearly convergent sequences, mullers method, non-linear systems of equation.
April 2022	2	Polynomial interpolation theory, Newtons divided differences, finite differences and table oriented interpolation formulas, Hermite interpolation.
May 2022	3	The Weierstrass theorem and taylor's theorem, the minimax approximation problem, the least square approximation problem orthogonal polynomials economisation of taylor series.
May 2022	4	The trapezoidal rule and simpson's rule Newton-Cotes integration formulas.



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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

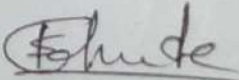
Teaching plan -2022-23

M.Sc. I: Semester-I:

Name of Teacher-P.S.Ghorpade

Subject/paper: Algebra-I

Month	Unit	Content
September 2022	1	Permutation group, Dihedral group, Isomorphism theorems, Automorphisms, Conjugacy and G-Sets, Alternating group, A_n , Cyclic Decomposition, Simplicity of A_n
October 2022	2	Normal Series, Solvable groups, Nilpotent groups, Cyclic decomposition of Permutation group, Alternating group
November 2022	3	Direct- Product, Semi Direct product of group, finitely generated abelian group, Sylow's theorems, Group of order $2p$ and pq
December 2022	4	Ideals and Homomorphisms, Maximal and prime ideals, Modules, Submodules, Quotient modules, completely reducible modules, Free modules,


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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

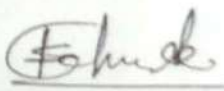
Teaching plan -2022-23

M.Sc. I: Semester-II:

Name of Teacher-P.S.Ghorpade

Subject/paper : Topology-I

Month	Unit	Content
September 2022	1	Countable and Uncountable sets, Example and Related theorems, Cardinal nos.& related theorems, Topological space
October 2022	2	Open Sets and Limit Points, Derived Sets, Closed Sets, & Closure Operator, bases and relative topologies.
November 2022	3	Connected sets & components Compact & countably compact spaces, Continuous functions & homeomorphisms, Arc wise connectivity.
December 2022	4	T_0 and T_1 -spaces, T_2 -spaces, and sequences, Axioms of countability, Separability, Regular & Normal spaces,


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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching plan -2022-23

M.Sc. I: Semester-II:

Name of Teacher-P.S.Ghorpade

Subject/paper: Topology-II.

Month	Unit	Content
April 2022	1	Topological spaces, continuous function, connectedness compactness, count ability. And separation axioms.
May 2022	2	connected spaces connected subspace of real line components and local connectedness.
	3	Compact spaces, compact subspaces of real line limit point local compactness.
June 2022	4	Count ability and separation axioms, normal spaces The Urysohn lemma, Urysohn metrization theorem, the Tietz extension theorem.


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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

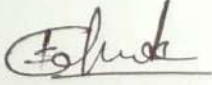
Teaching plan -2022-23

M.Sc. I: Semester-II:

Name of Teacher-**P.S.Ghorpade**

Subject/paper: Complex Analysis.

Month	Unit	Content
August & september 2022	1	.Impossibility of ordering complex Analysis, Extended complex plane & Stereographic projection elementary properties and examples of analytic function, power series, Analytic function
October 2022	2	Analytic function as mapping, Mobius transformation, power series Representation of Analytic function, zeros of an Analytic function, index of closed curve
November 2022	3	.Cauchys theorem, and integral formula, the homotopic version of Cauchys theorem simple connectivity the open mapping theorem Goursat theorem residues the argument principle
December 2022	4	The maximum principle Schwarz lemma, convex function, and hadams thee ciecle theorem, Phragmen- lindel of theorem


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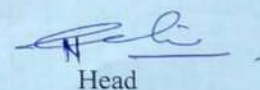
DEPARTMENT OF MATHEMATICS

TIME TABLE - UG: 2022-23

	8.00 – 8.48	8.48 – 9.36	9.40 – 10.28	10.28 – 11.16	11.20 – 12.08	12.08 – 12.56	2.32 – 3.20
Monday	B.Sc. II (NTK)	B.Sc. III (NTK)	B.Sc. II (RC)	B.Sc. I (RC)			
Tuesday	B.Sc. II (NTK)	B.Sc. III (NTK)	B.Sc. II (RC)	B.Sc. I (RC)			
Wednesday	B.Sc. II (T) (NTK)	B.Sc. III (NTK)	B.Sc. II (RC)	B.Sc. I (RC)	B.Sc. I (RC)	B.Sc. I (T) (NTK)	
Thursday	B.Sc. II (T) (NTK)	B.Sc. III (NTK)	B.Sc. II (RC)	B.Sc. I (RC)	B.Sc. I (NTK)	B.Sc. I (T) (NTK)	
Friday		B.Sc. III (NTK)	B.Sc. II (NTK)	B.Sc. I (NTK)	B.Sc. III (NTK)		B.Sc. III (T) (NTK)
Saturday		B.Sc. III (NTK)	B.Sc. II (NTK)	B.Sc. I (NTK)	B.Sc. III (NTK)		B.Sc. III (T) (NTK)

NTK : N.T. Katre

RC : Ravi Chavare



Head

Department of Mathematics

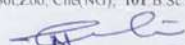
NABIRA MAHAVIDYALAYA, KATOL

TIME TABLE: SCIENCE FACULTY (Senior College): 2022-23

DAY	TIME CLASS	8.00-8.48	8.48-9.36	9.36-9.40	9.40-10.28	10.28-11.16	11.16-11.20	11.20-12.08-12.56-1.44	12.56-3.20	1.44-2.32-3.20-4.08-4.56
MON	B. Sc.-I (G)	ENG	PHY/BOT	B	CHE	MATHS/ZOO	B	PHY/ZOO (Pract)		PHY/ZOO (Pract)
	B. Sc.-I (NG)	ENG	PHY/M.B		CHE/CS	MATHS/ZOO/BTH		BTH (Pract)		ELE (T)
	B. Sc.-II (G)	MATHS	CHE/ELE		MATHS/ZOO	PHY/BOT/M.B		BOT/ Elect (Pract)		---
	B. Sc.-II (NG)	MATHS	CHE/CS		MATHS/ZOO/BTH	PHY/M.B		M.B (Pract)		CHE (Pract)
TUE	B. Sc.-III (G)	ELE	MATHS/ZOO	R	PHY/BOT	CHE	R	CHE (Pract)		---
	B. Sc.-III (NG)	ELE	MATHS/ZOO/BTH		PHY/M.B	CHE/CS		CS (Pract)		CHE (Pract)
	B. Sc.-I (G)	ENG	PHY/BOT		CHE	MATHS/ZOO		PHY/ZOO (Pract)		PHY(T)
	B. Sc.-I (NG)	ENG	PHY/M.B		CHE/CS	MATHS/ZOO/BTH		BTH (Pract)		PHY/ZOO (Pract)
WED	B. Sc.-II (G)	MATHS	CHE/ELE	E	MATHS/ZOO	PHY/BOT/M.B	E	BOT/ Elect(Pract)		ELE (T)
	B. Sc.-II (NG)	MATHS	CHE/CS		MATHS/ZOO/BTH	PHY/M.B		M.B (Pract)		---
	B. Sc.-III (G)	ELE	MATHS/ZOO		PHY/BOT	CHE		CHE (Pract)		---
	B. Sc.-III (NG)	ELE	MATHS/ZOO/BTH		PHY/M.B	CHE/CS		CS (Pract)		CHE (Pract)
THU	B. Sc.-I (G)	ENG	PHY/BOT	A	CHE	MATHS/ZOO	A	MATHS+MATHS (T),BOT (Pract)	Elec(Pract)	ELE:3.20-4.08,
	B. Sc.-I (NG)	ENG	PHY/M.B		CHE/CS	MATHS/ZOO/BTH		MATHS + MATHS(T),M.B(Pract)		ELE(T):4.08-4.56
	B. Sc.-II (G)	MATHS(T)	CHE/ELE		MATHS/ZOO	PHY/BOT/M.B		CHE(Pract)		
	B. Sc.-II (NG)	MATHS(T)	CHE/CS		MATHS/ZOO/BTH	PHY/M.B		CS (Pract)		CHE (Pract)
FRI	B. Sc.-III (G)	ELE	MATHS/ZOO	K	PHY/BOT	CHE	K	PHY/ZOO (Pract)		ZOO (Pract), PHY (Pract)
	B. Sc.-III (NG)	ELE	MATHS/ZOO/BTH		PHY/M.B	CHE/CS		BTH (Pract)		
	B. Sc.-I (G)	MARATHI	PHY/BOT		CHE	MATHS/ZOO		MATHS + MATHS(T),BOT(Pract)		Elec(Pract)
	B. Sc.-I (NG)	MARATHI	PHY/M.B		CHE/CS	MATHS/ZOO/BTH		MATHS + MATHS(T),M.B(Pract)		ELE + ELE:3.20-4.56
SAT	B. Sc.-II (G)	MATHS(T)	CHE/ELE	K	MATHS/ZOO	PHY/BOT/M.B	K	CHE(Pract)		CHE (Pract)
	B. Sc.-II (NG)	MATHS(T)	CHE/CS		MATHS/ZOO/BTH	PHY/M.B		CS (Pract)		CHE (Pract)
	B. Sc.-III (G)	ELE	MATHS/ZOO		PHY/BOT	CHE		PHY/ZOO (Pract)		
	B. Sc.-III (NG)	ELE	MATHS/ZOO/BTH		PHY/M.B	CHE/CS		BTH (Pract)		ZOO (Pract), PHY(Pract)
SAT	B. Sc.-I (G)	MARATHI	PHY/BOT	K	CHE	MATHS/ZOO	K	MATHS, BOT, ELE(Pract:12.08-2.32)		MATHS(T), PHY(T)
	B. Sc.-I (NG)	MARATHI	PHY/M.B		CHE/CS	MATHS/ZOO/BTH		MATHS, M.B (Pract)		MATHS(T), PHY(T)
	B. Sc.-II (G)	PHY(T)	CHE/ELE		MATHS/ZOO	PHY/BOT/M.B		CHE(Pract)		ELE
	B. Sc.-II (NG)	PHY(T)	CHE/CS		MATHS/ZOO/BTH	PHY/M.B		CS (Pract)		CHE (Pract),
SAT	B. Sc.-III (G)	ELE	MATHS/ZOO	K	PHY/BOT	CHE	K	PHY/ZOO (Pract)		ZOO (Pract)/ PHY (Pract)
	B. Sc.-III (NG)	ELE	MATHS/ZOO/BTH		PHY/M.B	CHE/CS		BTH (Pract)		
	B. Sc.-I (G)	MARATHI	PHY/BOT		CHE	MATHS/ZOO		MATHS, BOT, ELE(Pract:12.08-2.32)		MATHS(T), PHY(T)
	B. Sc.-I (NG)	MARATHI	PHY/M.B		CHE/CS	MATHS/ZOO/BTH		MATHS, M.B (Pract)		MATHS(T), PHY(T)
SAT	B. Sc.-II (G)	PHY(T)	CHE/ELE	K	MATHS/ZOO	PHY/BOT/M.B	K	CHE(Pract)		ELE
	B. Sc.-II (NG)	PHY(T)	CHE/CS		MATHS/ZOO/BTH	PHY/M.B		CS (Pract)		CHE (Pract),
	B. Sc.-III (G)	ELE	MATHS/ZOO		PHY/BOT	CHE		PHY/ZOO (Pract)		
	B. Sc.-III (NG)	ELE	MATHS/ZOO/BTH		PHY/M.B	CHE/CS		BTH (Pract)		ZOO (Pract)/ PHY (Pract)
SAT	B. Sc.-I (G)	MARATHI	PHY/BOT	K	CHE	MATHS/ZOO	K	MATHS, BOT, ELE(Pract:12.08-2.32)		MATHS(T), PHY(T)
	B. Sc.-I (NG)	MARATHI	PHY/M.B		CHE/CS	MATHS/ZOO/BTH		MATHS, M.B (Pract)		MATHS(T), PHY(T)
	B. Sc.-II (G)	PHY(T)	CHE/ELE		MATHS/ZOO	PHY/BOT/M.B		CHE(Pract)		ELE
	B. Sc.-II (NG)	PHY(T)	CHE/CS		MATHS/ZOO/BTH	PHY/M.B		CS (Pract)		CHE (Pract),
SAT	B. Sc.-III (G)	ELE	MATHS/ZOO	K	PHY/BOT	CHE	K	PHY/ZOO (Pract)		ZOO (Pract)/ PHY (Pract)
	B. Sc.-III (NG)	ELE	MATHS/ZOO/BTH		PHY/M.B	CHE/CS		BTH (Pract)		
	B. Sc.-I (G)	MARATHI	PHY/BOT		CHE	MATHS/ZOO		MATHS, BOT, ELE(Pract:12.08-2.32)		MATHS(T), PHY(T)
	B. Sc.-I (NG)	MARATHI	PHY/M.B		CHE/CS	MATHS/ZOO/BTH		MATHS, M.B (Pract)		MATHS(T), PHY(T)

Abbreviation used: G-Grant-in-aid, NG-Non Grant, T-Tutorial, TH-Theory, Pract-Practical

Rooms allotted for theory periods: 201 B.Sc.I-Phy, Mth, Mar(G), Eng(G), Che(G); 208 B.Sc.I-Bot, Zoo, Mar(NG), Che(NG); 005 B.Sc.II-Phy, Mth, Che(G); 207 B.Sc.II-Bot,Zoo, Che(NG); 101 B.Sc.III-Phy, Mth, Che(G); 205 B.Sc.III-Bot, Zoo, Che(NG); 202 B.Sc.III-III-Ele; 204 B.Sc.I,II,III-BTH; 206 B.Sc.I,II,III-CS; MB Lab-B.Sc.I,II,III-MB


Co-ordinator
Time-Table Committee


Principal

Nabira Mahavidyalaya Katol
Department of Mathematics
M.Sc (SEM-I), Session (2022-23)

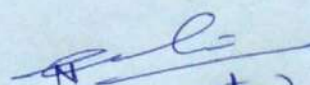
Time table

Day	8:00- 9:00	9:00- 10:00	10:00- 11:00	11:00- 11:30	11:30- 12:30	12:30- 01:30
MON	MPP	MPP	PRL	B R E A K	PSG	PSG
TUE	MPP	MPP	PRL		PSG	PSG
WED	MPP	MPP	PRL		PSG	PSG
THU	MPP	MPP	PRL		PSG	PSG
FRI	MPP	MPP	PRL		PSG	PSG

Nabira Mahavidyalaya Katol
Department of Mathematics
M.Sc (SEM-III), Session (2022-23)

Time table

Day	8:00- 9:00	9:00- 10:00	10:00- 11:00	11:00- 11:30	11:30- 12:30	12:30- 01:30
MON	PRL	PRL	PSG	B R E A K	MPP	MPP
TUE	PRL	PRL	PSG		MPP	MPP
WED	PRL	PRL	PSG		MPP	MPP
THU	PRL	PRL	PSG		MPP	MPP
FRI	PRL	PRL	PSG		MPP	MPP


(N.T. Katre)
HOD, Maths

Nabira Mahavidyalaya Katol
Department of Mathematics
M.Sc (Sem-II), Session (2022-23)

Time table

Day	8:00- 9:00	9:00- 10:00	10:00- 11:00	11:00- 11:30	11:30- 12:30	12:30- 01:30
MON	MPP	MPP	PRL	B R E A K	PSG	PSG
TUE	MPP	MPP	PRL		PSG	PSG
WED	MPP	MPP	PRL		PSG	PSG
THU	MPP	MPP	PRL		PSG	PSG
FRI	MPP	MPP	PRL		PSG	PSG

Nabira Mahavidyalaya Katol
Department of Mathematics
M.Sc (Sem-IV), Session (2022-23)

Time table

Day	8:00- 9:00	9:00- 10:00	10:00- 11:00	11:00- 11:30	11:30- 12:30	12:30- 01:30
MON	PRL	PRL	PSG	B R E A K	MPP	MPP
TUE	PRL	PRL	PSG		MPP	MPP
WED	PRL	PRL	PSG		MPP	MPP
THU	PRL	PRL	PSG		MPP	MPP
FRI	PRL	PRL	PSG		MPP	MPP

N.T. Katie
 (N.T. Katie)
 HOD, Maths

Nabira Mahavidyalaya, Katol

Department Of Mathematics





Departmental Meeting

23rd August, 2022

The Departmental Meeting for PG course in Mathematics was held on 23/08/2022 and the following points were discussed in the meeting.

- a. Discussion on Syllabus
- b. Distribution of work load.
- c. Discussion regarding action plan.
- d. Preparation of Time table.
- e. Preparation of attendance sheets.
- f. Discussion on mechanism for Internal assessment.

Following members of the department were present in the meeting:

- (1) Mr. N. T. Katre (Asst. Prof. & Head) — 
- (2) Mr. M. P. Pawar (Asst. Prof.) — 
- (3) Mr. P. R. Lohi (Asst. Prof. CHB) — 
- (4) Mr. P. S. Ghorpade (Asst. Prof. CHB) — 


N. T. Katre
(Head)

Nabira Mahavidyalaya, Katol

Department Of Mathematics


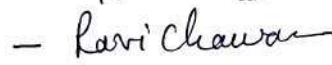
Departmental Meeting

5th Sept., 2022

The Departmental Meeting for UG course in Mathematics was held on 05/09/2022 and the following points were discussed in the meeting.

- (i) Discussion on Syllabus
- (ii) Distribution of work load.
- (iii) Discussion regarding action plan.
- (iv) Preparation of Time table.
- (v) Preparation of attendance sheets.
- (vi) Discussion on mechanism for Internal assessment.

Following members of the department were present in the meeting:

- (1) Mr. N. T. Katre (Asst. Prof. & Head) 
- (2) Mr. R. B. Chaware (Asst. Prof.) — 



N. T. Katre
(Head)

NABIRA MAHAVIDYALAYA, KATOL

DEPARTMENT OF ZOOLOGY

ACTION PLAN FOR THE SESSION 2022-23

Month	Action Plan
July	<ul style="list-style-type: none">• To conduct Bridge Course• Departmental meeting• Celebration of International Tiger Day.• Arrange Practical set-up for I, III, V as per syllabus
August	<ul style="list-style-type: none">• Arranging the Guest Lectures/Webinars of resource person.• Awareness towards Scientist works• Nature Club/ Science Corner activity
September	<ul style="list-style-type: none">• Arrange Practical set-up for I, III, V as per syllabus• Remedial Classes.• Test Examination• Initiative for Certificate course• Scientific Models workshop
October	<ul style="list-style-type: none">• Arrange Practical set-up for I, III, V as per syllabus• Test Examination• Students Seminar• Motivating the students to participate in Seminar/ Competitions at inter College /State / National level.• Remedial Classes.• Diwali Vacation (20-29)
November	<ul style="list-style-type: none">• Internal & University Practical Examination• Awareness towards Scientist Activity• Students Model Preparation for Avishkar• Winter-Vacation (19 Nov. to 07 Nov. 22)
December	<ul style="list-style-type: none">• Departmental meeting• Arrange Practical set-up for I, III, V as per syllabus• Awareness towards Scientist work• Science corner activity
January	<ul style="list-style-type: none">• Arrange Practical set-up for I, III, V as per syllabus• Arranging the Guest Lectures/Webinars of resource person.• Conduction of Certificate course• Nature Club activity• Test Examination
	<ul style="list-style-type: none">• Arrange Practical set-up for I, III, V as per syllabus• NATIONAL SCIENCE DAY / World Cancer day

February	CELEBRATION <ul style="list-style-type: none"> • Initiative for Certificate course • Awareness towards Scientist work
March	<ul style="list-style-type: none"> • Test Examination • Student seminar • World wildlife day celebration • Guest Lecture/Practical examination
April	<ul style="list-style-type: none"> • Test Examination • Awareness towards Scientist Activity • Remedial Classes. • Practical/ University Examination
May	Examination work
June	World environment Day celebration Examination work

VGBARSAGADE ..
Dr. Vikas G. Barsagade
Head Department of Zoology

NABIRA MAHAVIDHYALAYA KATOL

DEPARTMENT OF ZOOLOGY

Time table-2022-23

	1	2	3	4	5	6	7	8	9	10
DAY	8.00-8.48	8.48 - 9.36	9.40-10.28	10.28-11.16		11.20-12.08-12.56-1.44			1.44-2.32-3.20-4.08	
MON	BSc III NP	B BSc I TSK	BSc I NP	BSc II NP		BSc I Pract (4 Batches) VGB, TSK			BSc I Pract (4 Batches) VGB, TSK, AG,NP	
TUE	BSc III VGB	R BSc I NP	BSc I NP	BSc II TSK		BSc I Pract VGB, TSK, AAW (3 Batches)			BSc I Pract VGB, TSK, AG,NP (4 Batches)	
WED	BSc III TSK	E	BSc I AG	BSc II VGB		BSc III Pract VGB, TSK (3 Batches)			BSc III Pract VGB, TSK, (2 Batches)	
THU	BSc III TSK	A	BSc I AG	BSc II VGB		BSc III Pract VGB, TSK AAW (3 Batches)			BSc III Pract VGB, TSK, (2 Batches)	
FRI	BSc III AAW	K	BSc I VGB	BSc II TSK		BSc II Pract VGB, TSK (4 Batches)			BSc III Pract VGB, TSK (3 Batches)	
SAT	BSc III AAW		BSc I VGB	BSc II AAW		BSc II Pract VGB, TSK (4 Batches)			BSc III Pract VGB, TSK,AG (3 Batches)	

Total workload--- Theory period— 18

Practicals- 108

Dr. Vikas G. Barsagade - 18+ (Extra)

Dr. Trupti. S. Khedkar - 20+ (Extra)

Mr. Arvind A. Wankhede -09

Ms. Ankita Gajbe -09

Ms. Maheshwari Munne-09


Head, Zoology Deptt.
Nabira Mahavidyalaya, Katol

Signature HOD

Nabira Mahavidyalaya, Katol

Department Of Zoology

Departmental Meeting

3rd August 2022

The Departmental Meeting was held on 03/08/2022. Following points were discussed in the meeting in the HOD's chamber.

- a. Distribution of work load.
- b. Discussion on action plan.
- c. Time table setting.
- d. Chemical Stock checking.
- e. Sorting and listing of books in departmental library.
- f. Preparation of attendance sheets.

Members of the department present during the meeting:

- i. Dr V.G. Barsagade (Head & Asst. Prof.)
- ii. Dr T. S. Khedkar (Asst. Prof.)
- iii. Mr. Arvind Wankhede (Asst. Prof. CHB)
- iv. Ms. Ankita Gajbe (Asst. Prof. CHB)
- v. Ku. Maheshwaru Munne (Asst. Prof. CHB)
- vi. Shri C.N.Dhawad (Lab Attendant)
- vii. Shri . Pramod Bawane (Lab Attendant)



Head, Zoology Deptt.
Nabira Mahavidyalaya, Katol

Nabira Mahavidyalaya, Katol

Department Of Zoology

Departmental Meeting

4nd Jan 2023

The Departmental Meeting was held on 04/01/2023. Following points were discussed in the meeting in the HOD's chamber.

- I. Discussion on results.
- II. Assignments and Project reports were collected from students.
- III. Preparation regarding University Practical Examination was done.
- IV. Practical examination schedule and batch wise list of students were displayed on the Notice Board of Zoology Department.
- V. Chemical Stock checking.

Members of the department present during the meeting:

- I. Dr V.G. Barsagade (Head & Asst. Prof.)
- II. Dr T. S. Khedkar (Asst. Prof.)
- III. Mr. Arvind Wankhede (Asst. Prof. CHB)
- IV. Ms. Ankita Gajbe (Asst. Prof. CHB)
- V. Ku. Maheshwaru Munne (Asst. Prof. CHB)
- VI. Shri C.N.Dhawad (Lab Attendant)
- VII. Shri . Pramod Bawane (Lab Attendant)



Head, Zoology Deptt.
Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL
Bridge Course in Zoology
BSc. I (Sem I)
Session:2022-23

Serial No.	Name Of Student	Signature
1.	ANJALI RAMDAS DHONGADE	Ashonfale
2.	APARNA GAJANAN CHENCHMALATPUR	Ashinchpure
3.	ASHWINI YADAVRAO KAMBALE	Akamli
4.	CHHAKULI MADHAV WADULE	Chhadule
5.	DHANSHRI SANJAY NANOTE	AA
6.	DISHA ANIL GIRADKAR	DG Giradkar
7.	HEMLATA RAMESHWAR KALE	H.R. Kale.
8.	JANHVI MEHAR	AA
9.	JAYSHRI ASHOK RAUT	J A Raut
10.	KALYANI CHHAGAN KALBANDE	AA
11.	KALYANI BABHULKAR	AA
12.	KHUSHALI DATTUJI THOHBRE	KThambre
13.	LAKITA UHESH MAKDE	Lakade
14.	MADHURI MAROTI SARWARE	M Sarware
15.	MAYURI PRADIP PUTARIYA	AA
16.	MITALI MAHADEO GAJBHIYE	Mhajibhiye
17.	NEHA NARENDRA PATIL	AA
18.	RASIKA KESHAV WAGHE	RWaghe
19.	POOJA ANIL DAMBHALE	AA
20.	PRACHI VIJAY DHOPRE	Dhopre
21.	PRATIKSHA DILIP FULE	P. Fule
22.	PURVA SHESHRAO KHARPKAR	Pkhalkar
23.	RASHREE RAJENDRA REWATKAR	R Rewatkar
24.	RASIKA ANANDRAO SIRSAM	R Sirsam
25.	RUHIKA PRAMOD MALVI	R Malvi
26.	RUSHALI R RAMPURE	R Rampure
27.	SAMEER SHESHRAO ATRAM	Sumeer s. Atram
28.	SAMIKSHA CHANDRASHEKHAR DONGADAGE	S Dongadage
29.	SEJAL NAPENDRA WASULE	S Wasule
30.	SHARVARI PAVICHAND SOMKUWAR	AA
31.	SHIVANI PRABHANAR MOHANKAR	Shivankar
32.	SHIVPPASAD PANDHARINATH SURYAWANSHI	Shivawanshi
33.	TINA SANDIP YELEKAR	T Yelekar
34.	VAISHAVI NIMBUTE	AA

NABIRA MAHAVIDYALAYA, KATOL
Bridge Course in Zoology

Serial No.	Name Of Student	Signature
1.	ALFIYA TABASSUM SABIR HUSSAIN Shah	Alfiya
2.	AMISHA VJAY BUJRUJ	Amisha
3.	BHUMESHWARI MOHANRAO KHAWSHI	Bhumeshwari
4.	DAMINI SURESH KEWATE	D.S. Kewate
5.	DEVYANI NARENDRA RAIPURKAR	Devyani
6.	DIVYA VILAS MANKAWADE	D.V. Mankawade
7.	DNYANESHWARI DATTARAJ WARTHE	Dnyaneshwari
8.	GAURI SUNIL BARDE	GA
9.	GRENCY SANDIP DHANDE	GA
10.	KIRTI HEMANTRAO SONAK	GA
11.	KRUTIKA MURLIDHAR TOPLE	K.M. Tople
12.	MANASVI CHHATRAPALSING JAKHNA	GA
13.	MANSI PRAKASH SASANKAR	M. Sasankar
14.	MONALI NARNAWARE	GA
15.	NIKTA PRAKASHRAOJI KALMEGH	N.P. Kalmegh
16.	NISHA NITIN DHOLE	N.Dhole
17.	PALLAWI UTTAM PATHADE	P.U. Pathade
18.	PRANALI ASHOK UTANE	Pranali
19.	PRATIKSHA RAVINDRA SAHARE	Pratiksha
20.	RITA LAXMANRAO MANMODE	R.L. Manmode
21.	SAKSHI DAMODHAR NANOTKAR	S.D. Nanotkar
22.	SAKSHI RAJUJI BUJRUJ	S. Bujruj
23.	SAKSHI SEWADAS NIKOSE	Snikose
24.	SAPNA WANKHEDE	Sapna Wankhede
25.	SHARADDHA DILUP NAWALNETE	S.D. Nawalnete
26.	SNEHA ASHOK GAIKWAD	S. Gaikwad
27.	SNEHA HEMRAJ SIRASKAR	S. Siraskar
28.	SUKANYA ASHOK KODAPE	Sukanya
29.	TUSHAR PANCHABHOLE	GA
30.	VAISHNAVI MOHAN WERULKAR	V. M. Werulkar
31.	VAISHNAVI UMESHCHANDRA NADEKAR	GA


 12/8/22
 Dr. V. G. Barsagade
 H. O. D. Zoology
 Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2021-22

To be submitted to the Teacher Appraisal Committee

Name of the Teacher: Dr. V.G. BARSAGADE

Dept :Zoology

Subject/Paper : I

Class : Bsc.I (Sem I and Sem II)-----

Month	Topics to be covered
June *	Admission committee work
July * Theory	SEM I <ul style="list-style-type: none">➤ Introduction to syllabus➤ Protozoa : General characters and classification up to classes➤ Paramoecium : Structure and reproduction➤ Plasmodium : Structure➤ Practicals<ul style="list-style-type: none">• Study of Protozoans, study of phylum Porifera, and Coelenterata, Platyhelminthes
August *	<ul style="list-style-type: none">➤ Plasmodium : life cycle➤ Parasitic Protozoans of Man : <i>Entamoeba, Trypanosoma</i>➤ <i>Giardia and Leishmania</i>➤ Mode of infection and its control Practical <ul style="list-style-type: none">• Study of phylum Aschelminthes and Annelida• Study of permanent slides
September* Theory	<ul style="list-style-type: none">➤ Porifera : General characters and classification up to classes➤ Sycon : Structure, reproduction and development➤ Canal system in sponges➤ Coelenterata : General characters and classification up to classes Practical <ul style="list-style-type: none">• Mounting• Environmental Biology exp.• Estimation of dissolved oxygen of water• Estimation of free CO₂ of water• Estimation of pH of water sample• Estimation of total hardness of water
October *	<ul style="list-style-type: none">➤ Obelia : Structure and life cycle, corals and coral reef formation➤ Helminthes : General characters and classification up to classes➤ Ascaris : External morphology, reproductive system and life cycle Practical <ul style="list-style-type: none">• Study of pond ecosystem• Study of plankton• Study of charts of dissections
➤ November *	<ul style="list-style-type: none">➤ Taenia solium : Structure and life cycle➤ Elementary idea of parasitic adaptations in helminthes

Sem II

- December** * **Theory**
- Paper valuation
 - Introduction to syllabus.
- January** * **Theory**
- **Arthropoda** : General characters and classification up to classes
 - **Cockroach** : Mouth parts, digestive system and reproductive system
 - **Insects as Vectors** : Mosquito, Housefly, Sandfly, Tse-Tse fly
- Practical**
- **Study of museum specimens** :
 - Arthropoda, Mollusca Echinodermata & Hemichordata
 - Study of permanent slides
- February** * **Theory**
- **Study of crustacean larvae**, Social behavior in honey bees.
 - **Mollusca** : General characters and classification up to classes
 - **Pila** : Morphology, digestive, respiratory and reproductive system
 - **Pearl formation in Mollusca, Molluscan larvae**
- **Practical Mounting**
- **Practical Cell Biology**
- Study of pictures of ultra structure of prokaryotic cell & eukaryotic cell
 - Study of osmosis in human RBCs (hypotonic, hypertonic and isotonic medium)
 - Demonstration of mitotic cell division in onion root tips by squash method
 - Demonstration of meiosis in Grasshopper testis by squash method
 - Demonstration of salivary gland chromosome in Chironomous larva
- March** * **Theory**
- **Echinodermata** : General characters and classification up to classes
 - **Asterias** : External features and digestive system
 - Water vascular system and locomotion in Starfish
- Practical**
- Demonstration of mitochondria in buccal epithelium/ lip mucosa by Janus Green-B method
 - Use of ocular micrometer and measurement of micro objects
 - Demonstration of Barr body in blood smear
- April** * **Theory**
- **Echinoderm larvae** : Bipinnaria and Auricularia
 - **4 Hemichordata**
 - Assignment assessment.
 - Test Unit I and Unit II
- Practical**
- Study of charts of dissection -Digestive system of Cockroach
 - Reproductive system of Cockroach
 - Nervous system of Pila



Head, Zoology Deptt.
Nabira Mahaviyalaya, Ketel

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2022-23

To be submitted to the Teacher Appraisal Committee

Name of the Teacher: Dr. V. G. Barsagade

Dept: Zoology

Subject/Paper :Sem V-Pap-I and Sem VI-Pap-I

Class : **Bsc.III (Sem V and Sem VI)**

Sem V

Month

Topics to be covered

June *

Introduction to syllabus

➤ **Aquaculture**

July *

Theory

- Site selection and construction ,Pre stocking and post stocking management of nursery, rearing and stocking ponds
- Breeding of fishes by bund and Chinese hatcheries. Induced breeding by hypophysetion. New generation drugs in induced breeding.
- Fish products and byproducts, Fish preservation

Practicals

- Introduction to syllabus
- Detection of action of salivary amylase on starch
- Detection of carbohydrates, proteins and Lipids
- Detection of Vitamin A and Vitamin C

August

***Theory**

- Prawn culture and Pearl culture
- Fabrication and setting up of aquarium and its maintenance
- Breeding of aquarium fishes – Live bearers and egg layers
- Diseases caused by fungi, bacteria, protozoa and helminthes

Practical

- Preparation Haemin crystal
- Total count of WBC and RBC
- Study of histological slides of Mammal
- Mounting

September * Theory

- **Economic Entomology**
- Chemical control and biological control methods
- Crop pest and animal pest

Practical

- Collection and identification of fishes
- Freshwater edible fishes and Aquarium fishes
- Study of charts of Dissection:
- Digestive, reproductive and brain with pituitary of culturable fishes
- Gonosomatic index

October

*** Theory**

- **Economic Entomology (Industrial entomology) (9 Periods)**
- Sericulture- Types of Silkworm. Life cycle and rearing of mulberry silkworm
- Apiculture – Types of honey bees. Life cycle, culture, movable frame hive, bee product and its economic importance
- Lac culture – Lac insect, *Laccifer lacca* - Life cycle, Lac processing, Lac products and Economic Importance
- Class test, Seminars

Practical

- Study of Insect Pest
- Mounting : Mouth parts, Legs, wings of any insects and sting of Honeybee
- Visit to educational centre,

Sem IV

December

* Theory

- Introduction to syllabus
- **Biotechniques**
- **Concepts of sterilization, Separation of biomolecules, Electrophoresis:**

Practical

- Introduction to syllabus.
- Detection of urea, albumin, sugar and creatin in urine
- Study of histological slides of Mammal – T.S. kidney, pituitary, thyroid, adrenal,

January

* Theory

- **Microtechnique (9 Periods)**
- Fixation, dehydration, clearing, embedding & section cutting
- Double staining with Haematoxylin and Eosin
- Histochemical staining techniques for carbohydrates proteins and lipids (Sudan black-B)

Practical

- Sperm count in a given semen sample
- Separation of amino acids by paper chromatography
- Separation of proteins by electrophoresis technique(Demonstration)
- Block preparation and section cutting

February

* Theory

- **Biotechnology**
- Basic concepts in recombinant DNA technology, Gene isolation
- Isolation of gene- DNA manipulation enzymes: Nucleases, ligases, polymerases
- Basic concepts of cloning vectors and Application of biotechnology: Insulin and vaccine production

Practical

- Block preparation and section cutting
- Double staining method (H-E)
- Demonstration of carbohydrates, proteins and lipids by histochemical methods
- Determination of mean, mode, median from a given bio statistical data and graphical representation of the data using computers

March

* Theory

- **Bioinformatics and Biostatistics**
- Bioinformatics: Definition, Basic concepts in bioinformatics,
- importance and role of bioinformatics in life sciences
- Bioinformatics databases- introduction, types of databases
- PPT presentations

Practical

- Study of Dissection charts showing Endocrine glands of Culturable fishes
- Use of internet for survey of literature using protein and nucleotide databases(NCBI)
- Use of software's like Microsoft offices
- RTMU practical exam.

April

* Theory

- Nucleotide sequence databases, Elementary idea of protein databases
- Biostatistics – Tabulation of data, presentation of data, sampling errors, mean, mode, median, probability, standard error and standard deviation
- Test



Head, Zoology Deptt.
Nabira Mahaviyalaya, Ketel

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 22-23

To be submitted to the Teacher Appraisal Committee

Name of the Teacher: Dr. V. G. Barsagade

Dept: Zoology

Subject/Paper :Sem III-Pap- I and Sem IV-Pap-I

Class : **Bsc.II (Sem III and Sem IV)**

Month	Topics to be covered
June *	Protochordata : General characters and classification up to order
July *	Theory <ul style="list-style-type: none">➤ Herdmania : Structure, digestive system, ascidian tadpole and metamorphosis➤ 1Amphioxus : Structure, digestive system, circulatory system, sense organs➤ Agnatha : General characters of Cyclostomata (<i>Petromyzon</i> and <i>Myxine</i>) Practical <ul style="list-style-type: none">➤ Introduction to syllabus➤ Identification, classification: I. Urochordata II. Cephalochordata III. Cyclostomata IV. Pisces : V. Amphibia
August *	Theory <ul style="list-style-type: none">➤ Pisces : Salient features of Chondrichthyes and Osteichthyes, Origin of paired Migration and Accessory respiratory organs in fishes➤ 2 Amphibia : General characters and classification up to order➤ Parental care and Neotony in Amphibia Practical <ul style="list-style-type: none">➤ Developmental Biology -Study of permanent slides of Frog embryology.➤ Study of permanent slides
September *	Theory <ul style="list-style-type: none">➤ Gametogenesis and type of eggs➤ Fertilization of egg➤ Post fertilization development of fish➤ Types of scales of fishes, Development of placoid scales Practical <ul style="list-style-type: none">➤ Permanent stained preparation➤ Genetic experiments: Study of monohybrid and dihybrid ratio.
October *	Theory <ul style="list-style-type: none">➤ Frog Embryology - Cleavage , blastulation and gastrulation➤ Fate map, Morphogenetic movements in gastrula of frog➤ Development of respiratory organs in frog➤ Development of Aortic arches of frog Practical <ul style="list-style-type: none">➤ Study of normal human karyotype (Normal male and female)➤ Study of characters and karyotypes of Syndrome➤ Study of the genetic traits➤ Study of charts showing dissection of the locally available culturable fish

*

Sem IV (2023)

January * Theory

- **Reptilia**- Classification based on temporal vacuities
- Poison apparatus, biting mechanism , snake venom and its importance
- **Aves** – Comparison of Ratitae and Caranitae, Flight adaptations and migration
- **Mammals** – General characters of Prototheria, Metatheria and Eutheria

Practical

- Introduction to syllabus.
- Identification, classification: i. Reptilia ,ii. Birds : iii. Mammals
- Developmental Biology –Study of slides of chick embryology
- Study of permanent slides.

February * Theory

- Modern theories of evolution : Darwinism and Neo-Darwinism
- Adaptations – Cursorial, Aquatic, Terrestrial, Fossorial and Volant
- Introduction to genetic basis of evolution – Species Deme, Variation
- Races in Man (Caucasoid, Negroid, Mongoloid and Australoid)

Practical

- Study of skeleton of Rabbit and Fowl
- Immunology Exp. :
 - 1. Determination of (ABO and Rh) blood groups in humans
 - 2. Antigen – Antibody interaction by double diffusion method (Ouchterlony)

March * Theory

- Comparative account of aortic arches and heart in Reptiles, Birds and Mammals
- Structure of hen's egg
- Development of chick up to primitive streak stage
- Development of extra embryonic membranes in chick and functions

Practical

- Molecular Biology Exp:
 - 1. Staining of DNA and RNA (methyl green pyronin)
 - 2. Introduction to basic laboratory instruments
 - 3. Isolation of DNA from any available source

April * Theory

- Blastocyst and implantation in Mammals; Types of placenta on the basis of morphological and histological structure; functions of placenta
- Stem cells : Sources, types and their use in human welfare
- Biological clock : Diurnal and rhythmic behavior in birds and mammals
- Role of pheromones in reproductive behavior Class test

Practical

- 3. Study of histological slides of organs of immune system – Thymus, Lymph nodes and Spleen.



NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 22-23

To be submitted to the Teacher Appraisal Committee

Name of the Teacher: Dr. T.S.Khedkar

Dept: Zoology

Subject/Paper :Sem III-Pap- I and II and Sem IV-Pap-II

Class : **Bsc.II (Sem III and Sem IV)**

Month	Topics to be covered
June *	Admission committee work
July *	Theory <ul style="list-style-type: none">➤ Introduction to syllabus➤ Cytoplasmic inheritance- Kappa particles in Paramecium,➤ CO₂ sensitivity in Drosophila and milk factor in mice.➤ Linkage and crossing over – Basic concepts of linkage and types of linkage➤ Theories of linkage Practicals <ul style="list-style-type: none">➤ Introduction to syllabus➤ Identification, classification: I. Urochordata II. Cephalochordata III.Cyclostomata IV. Pisces : V. Amphibia
August *	Theory <ul style="list-style-type: none">➤ Concepts of genes – Cistron , muton and recon➤ Haemoglobin disorders – Thalassemia and Sickle cell anaemia➤ Metabolic disorder: Phenylketonuria➤ Sex determination – ZZ, XY, XO, ZW pattern➤ Sex determination in Drosophila – Genic balance theory and Environmental sex determination in Bonellia Practical <ul style="list-style-type: none">➤ Developmental Biology -Study of permanent slides of Frog embryology.➤ Study of permanent slides
September *	Theory <ul style="list-style-type: none">➤ Chromosomal aberrations: addition, deletion, duplication and inversion➤ Disorders related to chromosomal number- Turner syndrome, Klinefelter syndrome and Down syndrome.➤ Gene mutations- Spontaneous and induced mutations.➤ Extracellular genome – Presence and functions of mitochondrial DNA, plasmid Practical <ul style="list-style-type: none">➤ Permanent stained preparation➤ Genetic experiments: Study of monohybrid and dihybrid ratio.
October *	Theory <ul style="list-style-type: none">➤ Mutations➤ Mutagenic agents Paper I (Unit –IV) Fertilization, Cleavage, Blastulation and Gastrulation. Practical <ul style="list-style-type: none">➤ Study of normal human karyotype (Normal male and female)➤ Study of characters and karyotypes of Syndrome➤ Study of the genetic traits➤ Study of charts showing dissection of the locally available culturable fish

Sem IV (2023)

January * Theory

- Introduction to syllabus
- Innate and acquired immunity
- Organs of the immune system
- Antibody mediated immune response
- Cell- mediated immune response

Practical

- Introduction to syllabus.
- Identification, classification: i. Reptilia ,ii. Birds : iii. Mammals
- Developmental Biology –Study of slides of chick embryology
- Study of permanent slides.

- Antigen - Structure, diversity, functions and types of antigen
- Antibody- Structure, types and functions
- Antigen-antibody interaction – Precipitation and agglutination

Practical

- Study of skeleton of Rabbit and Fowl
- **Immunology Exp. :**
- 1. Determination of (ABO and Rh) blood groups in humans
- 2. Antigen – Antibody interaction by double diffusion method (Ouchterlony)

March * Theory

- Complement system: Basic concepts of complement system, classical pathway
- Alternative and MBL pathways
- Complement system in immune defense

Practical

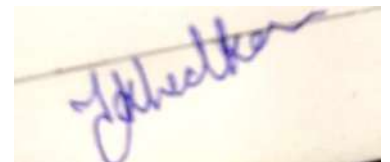
- **Molecular Biology Exp:**
- 1. Staining of DNA and RNA (methyl green pyronin)
- 2. Introduction to basic laboratory instruments
- 3. Isolation of DNA from any available source

April * Theory

- Cytokines and cytokine related diseases
- Class test

Practical

- 3. Study of histological slides of organs of immune system – Thymus, Lymph nodes and Spleen.

A handwritten signature in blue ink, possibly reading 'J. Chhetri', is written on a light-colored background.

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2021-22

To be submitted to the Teacher Appraisal Committee

Name of the Teacher: Dr. T.S.Khedkar

Dept: Zoology

Subject/Paper :Sem V-Pap-I and Sem VI-Pap-I

Class : **Bsc.III (Sem V and Sem VI)**

Sem V

Month	Topics to be covered
June *	Admission committee work
July *	Theory <ul style="list-style-type: none">➤ Introduction to syllabus➤ Structure and functions of digestive glands. Practicals <ul style="list-style-type: none">➤ Introduction to syllabus➤ Detection of action of salivary amylase on starch➤ Detection of carbohydrates, proteins and Lipids➤ Detection of Vitamin A and Vitamin C
August	*Theory <ul style="list-style-type: none">➤ Gastrointestinal hormones➤ Digestion and absorption of proteins, carbohydrates and fats.➤ Respiratory pigments - Types , distribution and Properties➤ Mechanism of Respiration➤ Transport of O₂ and CO₂ Practical <ul style="list-style-type: none">➤ Preparation Haemin crystal➤ Total count of WBC and RBC➤ Study of histological slides of Mammal➤ Mounting
September	* Theory Practical <ul style="list-style-type: none">➤ Collection and identification of fishes➤ Freshwater edible fishes and Aquarium fishes➤ Study of charts of Dissection:➤ Digestive, reproductive and brain with pituitary of culturable fishes➤ Gonosomatic index
October	* Theory <ul style="list-style-type: none">➤ Respiratory disorders and effects of smoking➤ Class test➤ Seminars Practical <ul style="list-style-type: none">➤ Study of Insect Pest➤ Mounting : Mouth parts, Legs, wings of any insects and sting of Honeybee➤ Visit to educational centre,

Sem IV

December

*** Theory**

- Introduction to syllabus
- Types of neurons, E.M. structure of neuron
- Conduction of nerve impulse
- Ultrastructure of striated muscle, Sliding filament theory of muscle contraction

Practical

- Introduction to syllabus.
- Detection of urea, albumin, sugar and creatin in urine
- Study of histological slides of Mammal – T.S. kidney, pituitary, thyroid, adrenal,

January

*** Theory**

- Properties of muscles (Twitch, Tetanus, Tonus, Summation, All or None Principle, Muscle fatigue)
- Structure and functions of pituitary gland
- Structure and functions of thyroid and parathyroid gland
- Structure and functions of adrenal gland

Practical

- Sperm count in a given semen sample
- Separation of amino acids by paper chromatography
- Separation of proteins by electrophoresis technique(Demonstration)
- Block preparation and section cutting

February

*** Theory**

- Structure and functions of pineal gland
- Structure of uriniferous tubule
- Seminars on assigned topics

Practical

- Block preparation and section cutting
- Double staining method (H-E)
- Demonstration of carbohydrates, proteins and lipids by histochemical methods
- Determination of mean, mode, median from a given bio statistical data and graphical representation of the data using computers

March

*** Theory**

- Mechanism of urine formation
- Normal and abnormal constituents of urine
- PPT presentations

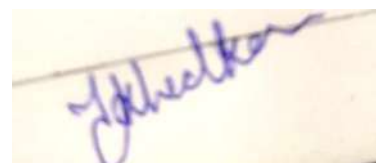
Practical

- Study of Dissection charts showing Endocrine glands of Culturable fishes
- Use of internet for survey of literature using protein and nucleotide databases(NCBI)
- Use of software's like Microsoft offices
- RTMU practical exam.

April

*** Theory**

- Counter – current mechanism
- Elementary idea of dialysis
- Test



NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2022-23

To be submitted to the Teacher Appraisal Committee

Name of the Teacher: Dr. T.S.Khedkar

Dept :Zoology

Subject/Paper : II

Class : Bsc.I (Sem I and Sem II)-----

Month

Topics to be covered

July * Theory

- Introduction to syllabus
- Atmosphere: Definition, types of spheres atmosphere around earth
- Major zones of atmosphere. Importance of different zones
- Composition of air
- Hydrosphere: Definition, Global distribution, Water cycle
- Physical properties of water. Chemical Properties of water

Practicals

- Study of Protozoans, study of phylum Porifera, and Coelenterata, Platyhelminthes

August *

- Lithosphere: Definition, Types of rocks,
- Formation of soil weathering of soil forming rocks,
- Chemical weathering and Biological weathering, mineralization , humification
- Renewable: Alternate energy resources.
- Non- renewable energy sources coal, oil, natural gas etc.

Practical

- Study of phylum Aschelminthes and Annelida
- Study of permanent slides

September* Theory

- Ecosystem: Introduction, Structure of ecosystem,
- Types of Ecosystem: Natural and Artificial
- Terrestrial and aquatic, Pond ecosystem(detail)
- Food chains: Grazing, Predator, Detritus .Food Web

Practical

- Mounting
- Environmental Biology exp.
- Estimation of dissolved oxygen of water
- Estimation of free CO₂ of water
- Estimation of pH of water sample
- Estimation of total hardness of water

October *

- Ecological Pyramids
- Energy Flow Models :Single Channel, Universal And Y Shaped
- Class Test ; Unit I And Unit II

Practical

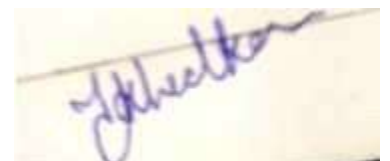
- Study of pond ecosystem
- Study of plankton
- Study of charts of dissections

November *

Diwali Vacation

Sem II

- December** * **Theory**
- Introduction to syllabus.
 - Ultrastructure of prokaryotic and eukaryotic cell.
 - Plasma membrane: Structure- Fluid Mosaic Model and functions.
- Practical**
- **Study of museum specimens** : Arthropoda, Mollusca, Echinodermata & Hemichordata
- January** * **Theory**
- Lysosome: Structure, polymorphism and functions.
 - Ultrastructure of mitochondria
 - Glycolysis and Krebs's cycle.
- Practical**
- Study of permanent slides
 - Mounting
- February** * **Theory**
- Endoplasmic reticulum: Types, ultrastructure and functions
 - Golgi complex: Ultrastructure and functions.
 - Class test
 - Assignment questions.
- Practical Cell Biology**
- Study of pictures of ultra structure of prokaryotic cell & eukaryotic cell
 - Study of osmosis in human RBCs (hypotonic, hypertonic and isotonic medium)
 - Demonstration of mitotic cell division in onion root tips by squash method
 - Demonstration of meiosis in Grasshopper testis by squash method
 - Demonstration of salivary gland chromosome in Chironomous larva
- March** * **Theory**
- Electron Transport Chain
 - Terminal oxidation
- Practical**
- Demonstration of mitochondria in buccal epithelium/ lip mucosa by Janus Green-B method
 - Use of ocular micrometer and measurement of micro objects
 - Demonstration of Barr body in blood smear
- April** * **Theory**
- Assignment assessment.
 - Test Unit I and Unit II
- Practical**
- Study of charts of dissection -Digestive system of Cockroach
 - Reproductive system of Cockroach
 - Nervous system of Pila



Nabira Mahavidyalaya, Katol

Department of Botany

Action Plan

Session 2022-2023

Following plans are supposed for the department of Botany in the mentioned session,

1. Participation in National & International Conferences.
2. Paper and poster presentation in National & International Conferences.
3. Organization of online guest lecture for the students, probably in each month.
4. To organise online competition for students related to social and health aspects.
5. Conduction of job-oriented “Plant Tissue Culture Certificate Course”, 4th batch.
6. To organise Botanical Excursion Tour.
7. To establish MOUs with NGOs, National and private labs.
8. To conduct various activities with Aura Park by means of signed MOU.
9. Make preparations for Masters course in Botany i.e., M.Sc. Botany, specialization in Plant Biotechnology.
10. Upgradation of Medicinal Garden & Botanical Garden.



Dr. B. B. Kalbande
Asst. Prof. & Head
Department of Botany,
Nabira Mahavidyalaya, Katol.

Academic Calendar


Department of Botany Session 2022-2023

Curricular / Co-Curricular / Extra Curricular Activities

Sr. No.	Activities	Tentative Dates
1	Commencement of Classes and Practicals for Sem-V & Sem-III	1 st of August, 2022.
2	Commencement of Classes and Practicals for Sem-I	10 th of August, 2022.
3	Class Tests for Sem-V and Sem-III	Last week of August, 2022.
4	Guest Lecture for Sem-V	First week of September, 2022.
5	Guest Lecture for Sem-III	Third week of September, 2022.
6	Guest Lecture for Sem-I	Last week of September, 2022.
7	Class Tests for Sem-V, Sem-III & Sem-I	Last week of September, 2022.
8	Assignments distribution to Sem-V, Sem-III & Sem-I	First week of October, 2022.
9	Workshop on Medicinal Plant Farming	First week of October, 2022.
10	Class Tests for Sem-V, Sem-III & Sem-I	Second week of October, 2022.
11	Assignments submission by Sem-V, Sem-III & Sem-I students	Second week of October, 2022.
12	Diwali Vacation	20 th Oct. to 29 th Oct., 2022.
13	Unit tests for Sem-V, Sem-III & Sem-I	2 nd week of November, 2022.

14	Preparation leaves	Second week of November, 2022.
15	Clearance of students for hall ticket	One week before exam.
16	Winter back exams starts	03 rd of October, 2022.
17	Winter regular exam starts	21 st of November, 2022.
18	Winter Vacation	19th of Nov. 2022 to 07th of Dec. 2022
19	Commencement of Classes and Practicals for Sem-VI, Sem-IV & Sem-II	10 th of December, 2022.
20	Commencement of Certificate Course on Plant Tissue Culture	01 st of January, 2023.
21	Guest Lecture for Sem-VI	First week of January, 2023.
22	Guest Lecture for Sem-IV	Second week of January, 2023.
23	Guest Lecture for Sem-II	Third week of January, 2023.
24	Class Tests for Sem-VI, Sem-IV & Sem-II	Last week of January, 2023.
25	Assignments distribution to Sem-VI, Sem-IV & Sem-II	Last week of January, 2023.
26	Workshop on Entrepreneurship in Medicinal Plant Farming & Product Processing.	First week of February, 2023.
27	Class Tests for Sem-VI, Sem-IV & Sem-II	Last week of February, 2023.
28	Assignments submission by Sem-VI, Sem-IV & Sem-II students.	Last week of February, 2023.
29	Unit tests for Sem-V, Sem-III & Sem-I	First week of March, 2023.
30	Preparation leaves	Second week of March, 2023.

31	Clearance of students for hall ticket	One week before exam.
32	Summer back exams starts	15 th of March, 2022.
33	Summer regular exam starts	22 nd of March, 2022.
34	Summer Vacations	01 st of May to 15 th of June 2022.


Dr. B. B. Kalbande
Asst. Prof. & Head
Department of Botany,
Nabira Mahavidyalaya, Katol.

Teaching Plan

Department of Botany

Session 2022-2023 (Sem I, III & V)

Dr. Bipinchandra B. Kalbande (Asst. Prof. & Head)

Department of Botany

B.Sc. Semester-I:

Paper-I: VIRUSES, PROKARYOTES, ALGAE & BIOFERTILIZERS.

August: (Blended Teaching & Learning)

Unit I - Viruses: Nature of viruses (Non-living and living characteristics), Ultra-structure of TMV, Structure and multiplication of T-4 bacteriophage, Economic importance of viruses. Mycoplasma: Properties, Structure and Reproduction. Bacteria: General characteristics, Ultrastructure of bacterial cell, Reproduction (Binary Fission and Conjugation), Economic importance of bacteria (with reference to their role in Agriculture and industry).

Practical - Study of Viruses from models/photographs (TMV and T4 bacteriophage). Gram staining of Bacteria, ultra-structure of Bacteriophage from TEM photographs.

Assessment by online quiz, assignments & Unit Test.

September: (Blended Teaching & Learning)

Unit II- Cyanobacteria: -General account, Economic Importance, Ultra cell structure, Reproduction. (Nostoc). Cyanobacteria: Cell ultrastructure, Structure of heterocyst, Structure and Reproduction in Nostoc, Economic importance of Cyanobacteria. Algae: General characteristics, Classification (Fritsch,1954), Economic importance of Algae.

Practicals - Study of Cyanobacteria: Nostoc. Study of Algal genera: *Oedogonium*, *Chara*.

Assessment by online quiz, assignments & Unit Test.

October: (Blended Teaching & Learning)

Unit III- Life cycles in Algae: *Chara*, *Vaucheria*, *Ectocarpus* and *Batrachospermum*.

Practicals - Gram staining of Bacteria, Study of Cyanobacteria: Nostoc. Study of Algal genera: *Oedogonium*, *Chara*, *Ectocarpus* and *Batrachospermum*.

Assessment by online quiz, assignments & Unit Test.

November: (Blended Teaching & Learning)

Unit IV- Biofertilizers: Definition, scope and importance. Various microbes used as Biofertilizers. Commercial production of Biofertilizers: Rhizobium, Azotobacter, PSB (Phosphate Solubilizing Bacteria, e.g. *Bacillus polymyxa*) and Azolla.

Practicals- Study of Algal genera: *Batrachospermum*. Identification and characterization of *Rhizobium*, *Azotobacter*, *PSB* and *Azolla*.

Assessment by online quiz, assignments & Unit Test.

Dr. Bipinchandra B. Kalbande (Asst. Prof. & Head)

B.Sc. Semester-III:

Paper-II: ANGIOSPERM ANATOMY AND HORTICULTURE

August: (Blended Teaching & Learning)

Unit I - Anatomy: Tissue: Definition, Characteristics of Meristematic tissue; Classification of meristems (based on origin and position). Simple Permanent Tissue and their functions: Parenchyma, Collenchyma, and Sclerenchyma. Complex Permanent Tissue and their functions: Xylem and Phloem. Apical meristem of root and shoot: Apical cell theory, Histogen theory, Tunica-Corpus theory, Newman's theory. Cambium: Structure, Types and functions.

Practical - 1. Study of simple and complex tissue from permanent micro-preparation. 2. Study of different types of vascular bundles. 3. Study of internal structure of dicot and monocot roots with the help of temporary micro-preparation.

Assessment by online quiz, assignments & Unit Test.

September: (Blended Teaching & Learning)

Unit II - Primary and Secondary Growth in stem and root: 1. Types of vascular bundles: Radial, Conjoint, Concentric. 2. Normal Primary structure of root: Dicot (Sunflower) and Monocot (Maize). 3. Normal Primary structure of stem: Dicot (Sunflower) and Monocot (Maize). 4. Normal secondary growth in dicot stem: Sunflower. 5. Anomalous Secondary growth in: Dicot stem (Bignonia) and Monocot stem (Dracaena).

Practicals - 4. Anatomy of dicot and monocot stem with the help of temporary or double stained permanent micro-preparation. 5. Anatomy of normal and anomalous secondary growth in stem with the help of double stained permanent micro-preparation.

Assessment by online quiz, assignments & Unit Test.

October: (Blended Teaching & Learning)

Unit III- Periderm, growth rings, Sap-heartwood, leaf anatomy: Growth rings: Spring wood and winter wood. Sap wood, Heart wood, Tyloses. Periderm: Composition, functions and Structures associated with periderm (Lenticel, Bark, Commercial cork). Anatomy of leaf: Dicot (Nerium) and Monocot (Maize). Senescence and Abscission.

Practicals - 6. Study of internal structure of dicot (Nerium) and monocot leaf (Maize) with the help of temporary micro-preparation.

Assessment by online quiz, assignments & Unit Test.

November: (Blended Teaching & Learning)

Unit IV- Skill Development: Horticulture: Horticulture: Definition and scope; importance of horticulture, water requirement and irrigation, nutrient management. Methods of propagation of following horticultural crops (propagation by seeds, vegetative propagation, propagation through specialized organs):

Practicals- 7. Study of various horticultural crops mentioned in syllabus.

Assessment by online quiz, assignments & Unit Test.

Dr. Bipinchandra B. Kalbande (Asst. Prof. & Head)

B.Sc. Semester-V:

Paper-II: PLANT ECOLOGY - I

August: (Blended Teaching & Learning)

Unit I - Ecology: Definition, branches and significance. Climatic factors: Atmospheric (Gaseous composition); Effect of Light and Temperature on vegetation Edaphic factors: Pedogenesis, Soil profile, Soil micro-organisms. Physiographic factors: Biotic factors: Interaction between plants and animals and humans and interaction between plants growing in a community.

Practicals – i. To determine frequency, density and abundance of community by quadrat method. **ii.** To determine homogeneity of vegetation by Raunkier's frequency diagram. **iii.** To determine the minimum number of quadrats required for reliable estimate of biomass in grasslands. **iv.** To study the frequency of herbaceous species in grassland and to compare the frequency distribution with Raunkier's standard frequency diagram. **v.** To measure the above ground plant biomass in a grassland.

Assessment by online quiz, assignments & Unit Test.

September: (Blended Teaching & Learning)

Unit II - Ecosystem: Definition, types; Components: Biotic and abiotic components, Food chain, Food web, Ecological pyramids. **Autecology:** Definition, Importance, Ecads, Ecotypes: Characteristics and importance, Growth curve. **Synecology:** Definition, Study of community: Quantitative characteristics: Frequency, Density, Abundance; Qualitative characteristics: Life forms, Raunkier's Biological Spectrum and Synthetic characteristics: Presence, fidelity and dominance.

Practicals – xi. To study the methodology of preparation of vermi-compost. **vi.** To study soil profile at different locations of nearby area.

Assessment by online quiz, assignments & Unit Test.

October: (Blended Teaching & Learning)

Unit III - Plant Succession: Definition, Causes of succession, Hydrosere, Xerosere. **Plant Adaptations:** Morphological and anatomical adaptations of Hydrophyte (Hydrilla, Nymphaea), Xerophyte (Casuarina, Nerium), Halophyte and Epiphyte (Vanda). **Biogeochemical cycles:** Nitrogen and Phosphorous

Practicals – vii. To estimate transparency, pH and temperature of different water bodies. **viii.** To estimate salinity of different water samples.

Assessment by online quiz, assignments & Unit Test.

November: (Blended Teaching & Learning)

Unit IV – Skill Development: Organic farming: Definition, concept, advantages and disadvantages, green manure and organic fertilizers. **Methods:** Recycling of biodegradable kitchen, agricultural and industrial waste. **Methods of Preparation** of Bio-compost, preparation of vermicompost and its type, isolation and inoculum production of VAM. **Organic manure:** Effect of organic manures on growth and yield productivity of various crop plants.

Practicals - xi. To study the morphological and anatomical characteristics of hydrophyte, xerophyte, halophytes and epiphyte with reference to ecological adaptations. **x.** Collection and identification of various organic manures.

Assessment by online quiz, assignments & Unit Test.

Teaching Plan
Department of Botany
Session 2022-2023 (Sem II, IV & VI)

Dr. Bipinchandra B. Kalbande (Asst. Prof. & Head)

B.Sc. Semester-II:

Paper-II: MORPHOLOGY OF ANGIOSPERMS AND FLORICULTURE

December:

Unit I - Vegetative Morphology: Root: Tap root and adventitious root, modification of root for storage and respiration. Stem: Shape, surface, and nature. Branching (Monopodial and Sympodial), Modification of stem (Runner, Rhizome, Tuber, Bulb). Leaf: Typical leaf, Types (Simple and Compound), Types of phyllotaxy, Venation, Modification of leaf (Tendrils, Phyllodes).

Practical - 1. Study of different root modifications. 2. Study of nature of branching and modification of stem

Assessment by online quiz, assignments & Unit Test.

January:

Unit II - Reproductive Morphology: Inflorescence: Definition, Racemose, Cymose and Special types. Flower: Definition, Structure of Typical flower, Variation in thalamus (Androphore, Gynophore and Gynandrophore). Calyx and Corolla: Cohesion, Forms of corolla and aestivation. Androecium: Parts, Cohesion, Adhesion and Fixation.

Practicals - 3. Study of leaf: Types (Simple & Compound), Phyllotaxy, Venation and Modifications. 4. Inflorescence: Types mentioned in theory.

Assessment by online quiz, assignments & Unit Test.

February:

Unit III- Carpel and Fruit: Gynoecium: Parts, Cohesion, Adhesion and Placentation. Fruit: Definition, Pericarp, Types of fruits: Simple (Dehiscent, Schizocarpic, Dry Indehiscent, Fleshy Indehiscent); Aggregate (Etaerio) fruits.

Unit-III- Composite Fruits (Sorosis and Syconus).

Practicals - 5. Flower: Parts, calyx, corolla, androecium, gynoecium, variation in thalamus. 6. Fruits: Study of different types of fruits

Assessment by online quiz, assignments & Unit Test.

March:

Unit IV- Skill Development: Floriculture: Floriculture: Definition, commercial aspects. Methods of cultivation of: Important cut flowers such as Carnation, Asters, Gerbera, Dahlia, Marigold with reference to soil type, sowing pattern, weather condition, irrigation regime, fertilizers and harvesting.

Unit IV- Diseases and control measures.

Practicals – 7. Identification and commercial aspect of cut flowers mentioned in theory.

Assessment by online quiz, assignments & Unit Test.

Dr. Bipinchandra B. Kalbande (Asst. Prof. & Head)

B.Sc. Semester-IV:

Paper-II: GENETICS, MOLECULAR BIOLOGY AND PLANT NURSERY

December:

Unit I - Genetics: (Mendelism, Linkage and crossing over). Mendelism: Basic terminology, Law of segregation and law of independent assortment. Interaction of genes: Allelic: Incomplete dominance (1:2:1); Non-allelic: Complementary factors (9:7) and Dominant epistasis (12:3:1). Linkage: Definition, Theory of linkage: Coupling and Repulsion, Types: Complete and Incomplete linkage. Crossing over: Definition, Breakage and reunion theory, significance of crossing over.

Practicals - 1. To prove Mendel's law of segregation with the help of colored beads. 2. To prove Mendel's law of independent assortment with the help of colored beads.

January:

Unit II - Genetics: (Mutation). Mutation: Definition, Types: Spontaneous and induced mutation, Physical and Chemical mutagens, applications of induced mutations. Chromosomal aberrations: Deficiency, Duplications, Inversion and Translocation. Variation in chromosome number: Aneuploidy (Nullisomic, Monosomic, Trisomics and Tetrasomics), Euploidy (Autopolyploidy, Allopolyploidy); Significance. DNA Damage and Repair: Photoreactivation and Excision Repair.

Practicals - 3. To work out the type of gene interaction mentioned in theory from given data.

Assessment by online quiz, assignments & Unit Test.

February:

Unit IV - Molecular biology. DNA: Structure of DNA (Watson and Crick's model), Replication of DNA: Semiconservative method of DNA replication. RNA: Types, Clover leaf model of t-RNA. Concept of gene: Classical: Cistron, Muton and Recon. Genetic code: Definition and characteristics. Protein synthesis: Transcription and Translation.

Unit IV- Skill Development: Plant nursery: Nursery: Definition and Role or objective; nursery infrastructure. Planning and seasonal activities: Preparation of nursery beds, anting: direct seeding and transplant, Air layering, Budding, Grafting, cutting, rooting medium, hardening of plant.

Practicals - 4. To study different methods of vegetative propagation (Air layering, cutting, budding and grafting)

Assessment by online quiz, assignments & Unit Test.

March:

Unit IV- Skill Development: Nursery management: Routine Garden operations, soil sterilization, seed sowing, pricking, planting and transplanting, shading, stopping or pinching, defoliation, wintering, mulching and topiary.

Unit IV- Gene expression in prokaryotes: Transcription and translation, Regulation of gene expression (Lac operon model).

Practicals- 5. To study the method of soil sterilization for plant nursery.

Assessment by online quiz, assignments & Unit Test.

Dr. Bipinchandra B. Kalbande (Asst. Prof. & Head)

B.Sc. Semester-VI:

Paper-I: PLANT PHYSIOLOGY-II & BIOTECHNOLOGY

December:

Unit I - Lipids: Definition, Properties and role of fatty acids, oils and waxes; Degradation of fats (β -Oxidation and Glyoxylic acid cycle). **Enzymology:** Enzymes: Definition, Nomenclature and classification of enzymes; Characteristics (Properties) of enzymes. **Basic concepts of enzymology:** Holoenzyme, Apoenzyme, Prosthetic group, Co-enzyme, Co-factor, Active site, Isoenzyme. **Mechanism of enzyme action:** Enzyme-substrate complex theory, Lock and key model, Induced fit model. **Enzyme inhibitors:** Definition, Competitive and noncompetitive.

Practicals – i. To study the effect of temperature on the activity of enzyme Amylase in the suitable plant material. **ii.** To study the effect of temperature on the activity of enzyme Catalase/Peroxidase in the suitable plant material. **iii.** To perform micro-chemical test for oils/lipids.

January:

Unit II- Brief account of: Tissue culture, Totipotency, Explant, Aseptic cultures, Micropropagation, Differentiation and Morphogenesis. **Methods of sterilization:** Autoclaving, Dry heat and Chemical sterilization. **Culture Media:** MS media (Preparation and nutrient contents). **Tissue Cultures:** Callus and organ culture (Shoot tip and Anther culture) and its applications. Protoplast culture and its applications. Applications of tissue culture

Practicals – iv. To study principle and working of autoclave, oven, pH meter, laminar air flow. **v.** To study the structure of plasmid vector and Ti-plasmid from the photograph/diagrams. **vi.** Extraction and preparation of Aloe vera juice from mature leaves of plant.

Assessment by online quiz, assignments & Unit Test.

February:

Unit III- Genetic engineering: Definition, Tools in genetic engineering: Enzymes (Restriction enzymes, Ligases, DNA-polymerases), Host. **Cloning vectors:** General Characteristics, method of Isolation of vector, Plasmid as a vector (pBR322). **DNA Library:** Definition, Construction of Genomic library and C-DNA library and their significance. **Agrobacterium mediated gene transfer:** Structure of Ti-plasmid, mechanism of transfer. Role of biotechnology in crop improvement


Practicals – vii. To study the method of preparation of Rose-water. **viii.** To study the method of preparation of oil from Hibiscus flower. **ix.** To study the method of extraction of natural dye from suitable dye yielding plant.

Assessment by online quiz, assignments & Unit Test.

March:

Unit IV- Skill Development: Herbal technology: History and importance of herbal technology. **Basic concepts:** Drugs, cosmetics, Natural dyes, Difference between organized and unorganized drugs. **Methods:** Cultivation, harvesting, processing, storage and utilization of *Withania somnifera*, *Aloe vera*, *Ocimum sanctum*. **Dye yielding herbal plants:** *Lawsonia alba* (Henna), *Rivinia humilis*, *Indigofera tinctoria*. **Herbs used in cosmetics:** *Cocos nucifera* (Coconut oil), *Curcuma longa* (Turmeric), *Cucumis sativa* (Cucumber), *Lavendula* sps. (Lavender oil), *Rosa* sps. (Rose), *Hibiscus rosa-sinensis* (China rose) (With reference to parts used, chemical constituents, uses and Marketed products)

Assessment by online quiz, assignments & Unit Test.


Dr. B. B. Kalbande
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NABIRA MAHAVIDYALAYA, KATOL
TEACHING PLAN FOR THE ACADEMIC SESSION 2022-23

Dr. Reena S. Meshram

Assistant Professor

Department of Botany

Teaching Mode: Classroom

SEMESTER I

Paper II:

Fungi, Plant-Pathology, Lichen, Bryophyta and Mushroom Cultivation

August- 2023

Unit-I: Fungi:

1. **Fungi:** General characteristics, Classification (Alexopolos, 1996), Economic importance.
2. Life history of *Albugo*, *Mucor*, *Puccinia* and *Cercospora*.

Test on Fungi through Google Forms or Class written test.

Practicals:

1. Study of Fungal genera: *Albugo*, *Mucor*, *Puccinia*, *Cercospora*
2. Study of Lichen: Thallus structure, Types of lichens

September- 2023

Unit-II: Plant Pathology and Lichens:

1. **Plant-Pathology:** Host, Pathogen, Symptoms, Causes and control of diseases:
Leaf curl of Papaya, Citrus canker and red rot of Sugarcane
1. **Lichens:** Introduction, Types, Reproduction and Economic importance.

Test on plant pathology and Lichens through Google Forms and Class written test.

Practicals:

3. Plant pathology: Leaf curl of Papaya, Red rot of Sugarcane, Citrus canker
4. Study of Bryophytes: *Marchantia*, *Anthoceros*, *Funaria*

Unit-III: Bryophyta:

1. **Bryophyta:** General Characteristics, Classification (Proskauer, 1957), Economic
2. importance.
3. Life history of *Marchantia*, *Anthoceros* and *Funaria*.

Test on Bryophyta through Google Forms and Class written test.

Practicals:

1. To study different instruments/tools used in mushroom cultivation.
2. To study method of preparation of spawn.
3. To study preparation of mushroom beds.

October- 2023

Unit-IV: Skill Development: Mushroom Cultivation:

1. Introduction: Nutritional and medicinal value of edible mushroom; Poisonous mushroom. Edible mushroom: *Volvariella volvacea*, *Plerotus citrinopileatus*, *Agaricus bisporus*.

2. Technology of Mushroom cultivation: Infrastructure: Mushroom unit (Thatched house); **Tools:** Polythene bags, vessels, inoculation hook, inoculation loop, low-cost stove, sieves, culture rack, water sprayer, tray, medium.

3. Techniques: Substrate, preparation of medium and spawn, sterilization, multiplication, bed preparation (Paddy-straw, sugarcane trash, banana leaves)

Test on Bryophyta, *Riccia*, *Anthoceros* and *Funaria* through Google Forms and Class written test.

SEMESTER III:

Paper I: Angiosperm Systematics, Embryology and Indoor Gardening

August- 2023

Unit-I: Systemic botany:

1. **Origin of Angiosperms:** (Benettitalean theory)
2. **Fossil angiosperms:** Flower (*Sahanianthus*); Fruit (*Enigmocarpon*)
3. **Angiosperm Taxonomy:** Floras, Herbarium, Keys (Intended and Bracketed)
4. **Botanical Nomenclature:** Principles (Rank and taxon, Principle of priority)
5. **Modern trends in taxonomy:** Cytotaxonomy (Karyotype), Phytochemistry (Proteins and Flavenoids)

Test on all topics of Unit I though Google Forms and Class written test.

Practicals:

1. Study of fossil Angiosperms from specimens/slides.
2. Study of dicot and monocot families mentioned in theory syllabus.

September- 2023

Unit-II: Angiosperm: Classification and Families:

1. **Systems of Classification:** Benthem and Hooker; Engler and Prantl (along with merits – demerits)
2. **Study of families: Dicot:** *Malvaceae, Brassicaceae, Papilionaceae, Asteraceae, Asclepiadaceae*; **Monocot:** *Poaceae*.

Test on all topics of Unit II through Google Forms and Class written test.

Practicals:

1. To calculate percent germination of pollen grains in the given material.
2. Study of structure of anther and pollen grain.

Unit-III: Embryology:

1. **Pollination:** Types and Significance.
2. **Anther:** T. S. Anther, Microsporogenesis; Structure of pollen grain, Development of male gametophyte.
3. **Ovule:** Types of ovule, Structure of anatropous ovule, Megasporogenesis, Development of female gametophyte (*Polygonum* type)
4. **Fertilization:** Double fertilization and triple fusion, Endosperm and its types, Structure of Dicot embryo (*Onagrad*) and Monocot embryo.

Class written Test on all topics of Unit III.

Practicals:

5. Study of different types of ovule.
6. Study of dicot and monocot embryos from permanent micro-preparation.

October- 2023

Unit-IV: Skill Development: Landscaping and Indoor gardening

1. **Landscaping:** Definition, scope of landscaping (Landscaping at offices, industrial premises, educational institutes and parks)
2. **Indoor gardening:** Brief account of places of house plants, pots and containers; Factors required for growing house plants (Temperature, light, humidity, ventilation, watering, soil, feeding, potting)
3. **Popular house plants: Foliage Plants:** *Coleus blumei*, *Begonia* sp.,
4. **Ferns:** *Adiantum* sp., *Nephrolepis* sp., **Palms:** *Chrysalidocarpus lutescens*- Areca palm, *Howea forsteriana*- Kentia palm, **Flowering plant:** *Anthurium* sp., *Begonia* sp., **Orchids:** *Vanda* sp., *Dendrobium* sp.

Class test on all topics of Sem IV.

Practicals:

7. Study of different popular house plants.

SEMESTER V

Paper I: Biochemistry & Plant Physiology-I

August-2023

Unit I: Plant-Water relation

1. Water relation: Concept and significance of Imbibition, Diffusion, Osmosis, Osmotic pressure, Cell as osmotic system, DPD, Plasmolysis.
2. Ascent of sap: Definition, Root pressure theory, Cohesion-adhesion theory.
3. Transpiration: Definition, Types, Mechanism of Stomatal movements (K⁺ Malate Hypothesis)
4. Phloem transport: Munch Hypothesis
5. Mineral uptake: Passive (Donnan's Equilibrium), Active (Carrier Concept).

Unit test on Unit I.

Practicals:

1. To study the effect of temperature on the permeability of cell membrane.
2. To study the effect of various organic solvents on the permeability of cell membrane.
3. To determine the osmotic pressure/potential of vacuolar sap by plasmolytic method.

September-2023

Unit II: Photosynthesis and Respiration.

1. **Photosynthesis:** Definition, Significance; Photosynthetic pigments (Type and role), Photosystems.
2. **Mechanism of photosynthesis:** Light reaction: Cyclic and non-cyclic photophosphorylation, Dark Reaction: Calvin Cycle (C₃), HSK pathway (C₄), CAM pathway.
3. **Respiration:** Definition, Types, significance and Respiratory Quotient (RQ)

4. **Mechanism of respiration:** Glycolysis, Krebs's Cycle, Oxidative phosphorylation (ETS).

5. Fermentation: Definition, Types, Mechanism of fermentation: Lactic acid and Alcoholic.

Class test Unit-II.

Practicals:

1. To study ascent of sap in suitable plant material.
2. To compare rate of transpiration from two surfaces of leaf by cobalt chloride method and Bell jar method.
3. To separate chlorophyll pigments by paper chromatography and calculate R_f value of different pigments.
4. To measure the rate of photosynthesis by Wilmotz bubbler under variable conditions of light (quantity and quality).

October-2023

Unit-III: N- Fixation, Plant Movements, Photoperiodism.

1. Nitrogen Metabolism: Definition, Mechanism of Biological N-Fixation (Symbiotic and Non-symbiotic)
2. Plant Movements: Definition, Outline, Tropic (Geotropic, Phototropic, Thigmotropic) and Nastic (Seismonastic).
3. Photoperiodism: Definition, Classification (Short Day Plant, Long Day Plant and Day Neutral Plant), photoperiodic induction, Florigen hormone.
4. Circadian rhythms and Biological clock.

Class Unit test on Unit-III.

Practicals:

1. To measure the rate of photosynthesis by Wilmotz bubbler under variable conditions of temperature and CO₂ concentration.
2. To determine the respiratory quotient (RQ) of the given plant material.

November-2023

Unit IV: Skill Development: Mineral nutrition and Hydroponics

1. Mineral nutrition: Definition, source, types (Macro and micronutrients)
2. Role and deficiency symptoms of Macronutrients: Nitrogen, Phosphorous, Potassium and Calcium
3. Role and deficiency symptoms of Micronutrients: Iron, Manganese, Boron and Zinc.
4. Hydroponics: Definition, advantages and disadvantages, Types of hydroponic systems (Deep water culture and Nutrient Film Technique); Nutrient composition.
5. Methods: Hydroponic farming of Tomato, Cucumber, Spinach and Cabbage.

Class Unit test on Unit IV.

Practicals:

1. To demonstrate the phenomenon of imbibition.
2. To demonstrate root pressure in suitable plant material.
3. To demonstrate that light is necessary for photosynthesis (Ganong's light screen).
4. To demonstrate that light, chlorophyll and CO₂ is necessary for photosynthesis (Moll's half leaf experiment).
5. To demonstrate fermentation by Kuhne's tube.
6. To demonstrate the evolution of CO₂ during respiration.

C. Plant movement, Photoperiodism, mineral nutrition and hydroponics

1. To demonstrate the phenomenon of nastic movement in Mimosa pudica plant

2. To demonstrate the phenomenon of soil less growth in plants mentioned in syllabus.

SEMESTER II

Paper I: PALAEOBOTANY, PTERIDOPHYTES, GYMNOSPERMS AND SOIL ANALYSIS

January 2024

Unit-I: Palaeobotany:

1. **Palaeobotany:** Definition; fossil and Pseudo-fossil, Importance of fossils.
2. **Types of fossils:** Compression, Impression, Cast-Mold, Petrification and Amber.
3. **Geological time scale:** Definition, Outline and brief account of Eras.
4. **Fossil leaf:** *Glossopteris*, **Fructification:** *Scutum*.

Class test on all topics of unit I.

Practicals:

Fossils: Types (Compression, Impression, Cast-Mold, Petrification); *Glossopteris*, *Rhynia*, *Cycadeoidea*.

February 2024

Unit-II: Pteridophytes:

1. **Pteridophyta:** General characteristics, Classification (Smith, 1952).
2. **Fossil Pteridophyte:** *Rhynia*
3. **Life history of:** *Selaginaella* and *Equisetum*.
4. **Heterospory and seed habit.**
5. **Brief account of types of steles**

Class test on all topics of Unit II through Google forms and class written test.

Practicals:

3. Study of Gymnosperms: *Cycas and Pinus*
4. Types of soil

March 2024

Unit-III: Gymnosperms:

1. **Gymnosperms:** General characteristics, Classification (Steward, 1982), Economic Importance
2. **Fossil Gymnosperms:** *Cycadeoidea* flower
3. **Life cycle of:** *Cycas* and *Pinus*.

Class test on all topics of Unit III.

Practicals:

5. To study Physical properties of soil samples
6. To study Chemical properties of soil samples

April 2024

Unit-IV: Skill Development: Soil analysis:

1. **Soil:** Types of soil, method of collection of soil samples.
2. **Physical properties of soil:** Soil texture, soil colour, Water Holding Capacity (WHC),
3. Water Rising Capacity (WRC), Bulk Density (BD) and Porosity (P).
4. **Chemical properties of soil:** pH, Carbonates as CaCO_3 , Available Nitrogen, Available Phosphorous, Available Potassium.
5. **Class test on all topics of Unit IV.**

SEMESTER IV

Paper I: Cell Biology, Plant Breeding, Evolution and Seed Technology

January 2024

Unit I: Cell organization

1. Cell: Brief account of Cell theory, Comparison between Prokaryotic and Eukaryotic cell organization, Structure of typical plant cell.
2. Structure and functions of: Cell wall, Plasma membrane (Fluid Mosaic model), Endoplasmic reticulum, Golgi complex, Ribosomes and Vacuole.

Class test on various topics of Unit-I.

Practicals:

1. Study of cell organelles with the help of photographs or slides.
2. Study of mitosis in suitable plant material.
3. Study of meiosis in suitable plant material.
4. To calculate mean, median, mode and standard error of the given data.

February 2024

Unit II: Cell Biology.

1. Structure and functions of: Chloroplast, Mitochondria and Nucleus
2. Chromosome morphology: Chromatid, chromomeres, centromere, telomere, secondary constriction, satellite.
3. Molecular organization of chromosome: Nucleosome model.
4. Sex Chromosomes: Definition, Structure of sex chromosomes (X and Y) in Melandrium plant.
5. Cell division: Mitosis and Meiosis (Mechanism and significance).

Class test on different topics.

Practicals:

1. To study the methods of breaking seed dormancy.
2. To study the seed viability and percentage seed germination by paper slot method or tetrazolium salt.

March 2024

Unit III: Plant Breeding and Evolution.

3. **Plant Breeding:** Definition and objectives
4. **Methods of Plant breeding:** Definition; Procedure or technique of Pure line selection, Clonal selection, Hybridization, Heterosis (Definition and Scope)
5. **Biostatistics:** Mean, Median, Mode, Standard deviation and Standard error
6. **Evolution:** Neo-Darwinism and Miller's theory.

Class test on Unit III.

April 2024

Unit IV: Skill Development: Seed Technology.

1. **Seed:** Structure and types
2. **Seed dormancy:** Causes of seed dormancy, methods to break seed dormancy
3. **Seed technology:** Seed storage, seed banks, factors affecting seed viability, genetic erosion, methods of seed production, seed testing and certification.
4. **Commercial types of seeds:** Farmers seed, foundation seeds, breeders seed and certified seed.

Class test on Unit IV.

SEMESTER VI

PAPER – II

PLANT ECOLOGY, TECHNIQUES & UTILIZATION OF PLANTS

January 2024

Unit I- Phyto geography, Pollution, Natural resources.

1. **Phyto geography:** Principles of phyto geography, Distribution (Wides, Endemics, Dis-continuous species); Climatic regions of India, Phyto geographic regions of India (Chaterjee, 1962) (Name, Distribution area, Typical Vegetation)
2. **Environmental pollution:** Causes and Control measures of Agriculture pollution and Noise pollution
3. **Natural Resources:** Renewable and Non-renewable resources, factors for their depletion
4. **Conservation strategies:** Conservation of forest and water resources.

Class test on Unit I through Google forms and class written test.

Practicals:

1. To find out the level of noise pollution of different nearby areas with the help of decimeter and compare it with tolerance limit.
2. To study the morphology, utilization and important chemical constituents of plants mentioned in theory (Utilization of plants).

February 2024

Unit II- Utilization of plants and Ethnobotany

1. **Utilization of plants:** Morphology, Utilization and important chemical constituents of the plants: Food (Wheat), Oil (Groundnut), Fiber (Cotton), Spices (Clove), Beverages (Coffee), Medicinal (Adhatoda vassica), and Rubber.
2. **Ethnobotany:** Definition, Brief history, branches and importance of Ethnobotany.

3. Plants of ethnobotanical importance: Vegetable, Fruits, Seeds, Medicinal and Narcotics (Two plants each with reference to family, parts used and tribal areas)

Class test on Unit II through class written test.

Practicals:

3. To study ethnobotanical importance of plants under the different categories mentioned in theory.
4. To study the principle and working of microscope, spectrophotometer, centrifuge and gel-electrophoresis apparatus.

March 2024

Unit III- Microscopy and Techniques

1. Microscopy: Principle, types and application of microscope (Light, Fluorescent, SEM and TEM).
2. Techniques: Principle, types and application of Centrifugation, Electrophoresis (SDS-PAGE and Agarose), Spectroscopy (UV-Vis), Chromatography (Paper and Thin Layer Chromatography (TLC))

Class test on Unit III through Google forms and class written test.

Practicals:

1. To study different adulterants used with reference to drug adulteration.
2. To study biological source, chemical constituents, preparation and uses of drugs obtained from plants mentioned in theory.

April 2024

Unit IV- Skill development: Pharmacognosy

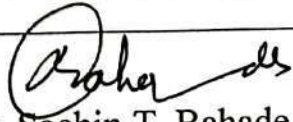
1. Pharmacognosy: Definition and scope, Drug adulteration: Types; methods of drug evaluation: Biological testing of herbal drugs, phytochemical screening tests for secondary metabolites (Alkaloids and Flavonoids)

2. Pharmacological plants: Biological source, staining, diagnosis, micro-chemical tests, chemical constituents, preparation and uses of drug extracted from the plants: *Datura* leaf, *Vinca rosea*, *Plantago ovata* (Isapgol) seeds, *Linum usitatissimum* (Linseed) seeds, *Elettaria cardamomum* fruit, *Coriandrum sativum* fruit, *Eugenia caryophyllus* (Clove) flower-bud, *Rauwolfia serpentina* root, *Zingiber officinale* (Ginger) rhizome.

Class test on Unit IV through and class written test.

NABIRA MAHAVIDYALAYA, KATOL
DEPARTMENT OF ELECTRONICS
ACTION PLAN FOR THE SESSION 2022-23

Month	Action Plan
July	<ul style="list-style-type: none"> • Setting and redesigning some experiments of Sem. I, III, V. • To conduct Bridge Course
August	<ul style="list-style-type: none"> • Designing experiments of Sem. V as per new Syllabus. • Arranging the Guest Lectures/Webinars of resource person. • Unit Test • Conduction of Certificate course, Awareness towards Scientist works, Use of audio visual aids
September	<ul style="list-style-type: none"> • Designing experiments of Sem. V as per new Syllabus. • Remedial Classes. • Unit Test • Conduction of Certificate course continue • Awareness towards Scientist work ,Students Model Preparation for Avishkar
October	<ul style="list-style-type: none"> • Designing experiments of Sem. V as per new Syllabus. • Unit Test • Student Seminar • Awareness towards Scientist work • Students Model Preparation for Avishkar • Motivating the students to participate in Seminar/ Competitions at inter College /State / National level. • Arranging Students Development Programs • Diwali Vacation (20-29)
November	<ul style="list-style-type: none"> • Practical Examination • Awareness towards Scientist Activity • Students Model Preparation for Avishkar • W-Vacation (19-11 to 07-12)
December	<ul style="list-style-type: none"> • Setting and redesigning some experiments of Sem. II, IV,VI. • Unit Test • Awareness towards Scientist work • Students Model Preparation for Avishkar
January	<ul style="list-style-type: none"> • Designing experiments of Sem. VI as per new Syllabus • Arranging the Guest Lectures/Webinars of resource person. • Unit Test ,Conduction of Certificate course ,To conduct Collage Competition • Awareness towards Scientist work ,Students Model Preparation for Avishkar
February	<ul style="list-style-type: none"> • Designing experiments of Sem. VI as per new Syllabus. • Unit Test • Arranging Students Development Programs • Conduction of Certificate course Continue • Awareness towards Scientist work
March	<ul style="list-style-type: none"> • Unit Test • Student seminar, Awareness towards Scientist work ,Guest Lecture
April	<ul style="list-style-type: none"> • Remedial Classes., Unit Test • Awareness towards Scientist Activity, Practical Examination
May	Vacation
June	Vacation


Dr. Sachin T. Bahade
 Asst. Prof & Head,
 Department of Electronics

NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN (Session 2020-21)

Name of the Teacher: **Dr. Sachin T. Bahade**

Dept.: **Electronics**

Month	Class	Paper	Topics to be Covered
First Term (Odd semester) 23-06-2022 to 23-11-2022			
August	B.Sc. Sem. I	II	Unit I: Number Systems and Codes: Decimal, Binary, Octal, Hexadecimal, representation of integer, fraction, mixed numbers and their mutual conversion, Complement of numbers-1's, 2's, complements, addition and subtraction using 1's and 2's complement method sign and magnitude of numbers. Codes- BCD, 8421, Excess 3, Parity and gray code
		I	Unit I : Identification and uses of electronic components: Resistors, Capacitors, Inductors, Switches
	B.Sc. Sem. III	I	Unit I: DC amplifier, difference amplifier, Need of two power supplies, working of difference amplifier, differential mode gain, common mode gain, C.M.R.R., IC OP-AMP, parameters of OP AMP and characteristics of an ideal OP AMP.
		II	UNIT I : Concept development: defining inputs, process and output, generating ideas, screening ideas, developing and testing ideas, Simulation, Prototyping or Trial Production, Design Review, techno-commercial feasibility, product development, Ergonomic & asthetic design, quality assurance and compliance.
	B.Sc. Sem. V	I	Unit I: Introduction to Electronics communication, block diagram of communication system, Types of communication: analog, digital; simplex, duplex; baseband, modulated, concept of modulation, need for modulation, types of modulation (AM, FM, PM)
II		Unit I: Block diagram of Intel 8085, ALU, Timing and control unit, General purpose registers, Accumulator, PC, SP, IR, ID, Interrupt, Address and Data bus multiplexing, Flags. Instruction Cycle: T-states, Fetch operation, Execute operation, Machine cycle	
September	B.Sc. Sem. I	II	UNIT II: Logic gates- OR, AND, NOT, NAND, NOR, XOR and XNOR gates and their truth table, Boolean Laws, double inversion, De Morgan's and Duality theorems, use of NAND and NOR as universal building blocks
		I	Unit I : Transformers and Relays Block diagram of C. R. O. Unit II: Ideal Voltage and Current sources, KCL & KVL, Voltage and current divider circuits, Superposition, Thevenin
	B.Sc. Sem. III	I	Unit II: OP AMP as an inverting amplifier, concept of virtual ground, non-inverting amplifier, unity gain amplifier, adder, subtractor, integrator, differentiator, comparator, zero crossing detector, Schmitt trigger
		II	UNIT II: Introduction to circuit maker, basics, accessing tools& features, saving schematic options, file management, drawing a schematic, creating simple RC circuit, setting up the analysis, running the simulation, mix signal simulation example.
	B.Sc. Sem V	I	Unit II: Propagation modes of signals: ground waves, sky waves, Ionosphere and satellite; antenna fundamentals, basic principles and types.
II		UNIT II: Addressing mode, instruction Set- Data transfer group,	


HEAD

**DEPARTMENT OF ELECTRONICS
NABIRA MAHAVIDYALAYA, KATOL**

			arithmetic group, logic group, simple programs
October	B.Sc. Sem. I	II	UNIT III: Karnaugh Maps: pair, quads, octets , min term, max term in K Map, K-map for 2,3,4 variables, concept of SOP and POS, simplification of SOP and POS logic expressions using K-map, Design of binary to gray code converter, gray to binary code converter using K-map
		I	Unit II: Norton, Maximum power transfer theorems
	B.Sc. Sem. III	I	UNIT 3: Study of integrated circuit-Introduction to IC555, functional block diagram of IC555 and its working, applications of IC 555, Astable, monostable multivibrator, PAM and PPM, IC 555 in FSK.
		II	Unit III: Half wave rectifier, full wave rectifier, bridge rectifier; concept of filter Unregulated, regulated PS, power supply parameters – ripple factor, efficiency, line regulation, load regulation, Zener regulator, Regulated power supply design using series pass transistor, short circuit protection . Unit IV: General features of IC regulators, design of fixed and variable power supply, 78xx,79xx , LM 317
	B.Sc. Sem. V	I	Unit III Digital communication: Introduction, synchronous, asynchronous transmission, Shannon theorem, ASK, FSK, and PSK modulation.
		II	UNIT III: Instruction set: branch control group, I/O and machine control group, simple programs, stack and subroutines.
Diwali Vacation starts 20/10/22 To 29/10/22			
November	B.Sc. Sem. I	II	UNIT IV: Combinational Logic Circuits Half Adder, full adder, half subtracter and full subtracter, Concept of Encoder , Concept of Decoder: BCD to gray converter, BCD to seven segment converter, parity generator checker, 4-bit Full Adder/ subtracter, Concept of multiplexer, 4:1 mux using gate , Concept of de multiplexer, 1:4 de mux using gate
		I	Unit IV: : The bipolar junction transistor, construction of B. J. T. , modes of B.J.T. , transistor equation; α , β and their relationship, junction biasing Input, output and transfer char of BJT in CE mode, Transistor Biasing, DC load line, Q point, transistor as switch .
	B.Sc. Sem. III	I	UNIT IV: Functional block diagram of dual trace CRO and applications, block diagram of function generator, Applications of CRO –frequency, timeperiod, phase measurement, lissajous figure, ac and dc voltage measurement.
		II	Unit IV: General features of IC regulators, design of fixed and variable power supply, 78xx, 79xx, LM 317, Design of dual power supply, LM 317 as variable regulator, Limitations of linear regulator, (SMPS), Concept of Low Drop Out regulator. LM 317 as variable regulator, Limitations of linear regulator, (SMPS), Concept of Low Drop Out regulator.
	B.Sc. Sem V	I	Unit IV: Fiber optic communication system, Advantages of FOC, concept of Fax, concept of cellular telephone, block diagram of cellular telephone, advantages
		II	UNIT IV: Need for interfacing, modes of data transfer, synchronous and asynchronous, interrupt driven, DMA, PPI 8255- Block diagram, modes, control word format.
Winter Vacation 24-11-2022 to 07-12-2022			

2024-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100


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DEPARTMENT OF ELECTRONICS
MABIRA MAHAVIDYALAYA, KATOL

Second Term (Even semester) 08-12-2022 to 07-05-2022

December	B.Sc. Sem. I		Revision
	B.Sc. Sem. III		Revision
	B.Sc. Sem. V		Revision
Winter Vacation 25/12/2020 To 15/01/2021			
January	B.Sc. Sem. II	II	<p>UNIT I :Logic Families: Characteristics of digital ICs, construction and working of TTL NAND and NOR gates, construction and working of CMOS NAND and NOR gates, Tristate logic comparison of TTL and CMOS logic families with respect to propagation delay, power consumption, noise immunity, noise margin, fan in and fan out.</p> <p>Unit I: Construction, working, characteristics and applications of JFET, MOSFET parameters of JFET and their relationship parameters of MOSFET and their relationship</p>
	B.Sc. Sem. IV	I	<p>Unit I:Feedback: type, positive and negative feedback, Barkhausen criterion, Oscillators, types, basic oscillator action L-C oscillator : Colpitts oscillator, RC oscillator using OP Amp ,phase shift oscillator, Wein bridge oscillator oscillator stability, crystal oscillator, NOT gate based crystal oscillator.</p> <p>Unit I: Block diagram for electronic system, Defining the system, characteristics, Analog, digital, real, virtual, dedicated, versatile, stand alone, PC based instruments. Concept of calibration, standards for calibration.</p>
		II	
	B.Sc. Sem. VI	I	<p>UNIT I:Constant, Variables and Operators: Character set, C tokens, constant,Keyword, identifiers, variables, data types, declaration of variables, Arithmetic, relational logical, assignment, increment, conditional, bitwise, operators, Arithmetic expression, evaluation of expression, precedence of operators, input/output functions.</p>
II		<p>Unit I: Architecture and features, Internal and External memory, Flags, SFR Map, SFR Function, Accumulator, Register B, Port registers (P0, P1, P2 and P3), Power Management (PCON)</p>	
February	B.Sc. Sem. II	II	<p>UNIT II: Sequential Logic Circuits- Concepts of Edge and Level Triggering, Propagation Delay, set up time, hold time, R-S Flip Flop, Clocked R-S Flip Flop, Limitations of R-S FF, D FF, JK FF, preset and clear, Limitations of JK FF: Race around Condition, JKMS FF</p> <p>Unit I: parameters of MOSFET and their relationship</p> <p>Unit II: Construction, working, characteristics and applications of Silicon Controlled Rectifier, DIAC, TRIAC and UJT, UJT as relaxation oscillator.</p>
		I	
	B.Sc. Sem. IV	I	<p>Unit II: Study of OP AMP as: astable multivibrator, mono stable multivibrator, concept and working of sample and hold circuit, concept of Instrumentation Amplifier and working.</p> <p>Unit I: PC based instruments. Concept of calibration, standards for calibration</p>
II		<p>Unit II: Sensors, actuators, transducers, active & passive transducers, characteristics, Passive: Thermistor (NTC & PTC), LM35, L.D.R. photo-transistor</p>	



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DEPARTMENT OF ELECTRONICS
BABRA MAHAVIDYALAYA, KATOL



	B.Sc. Sem. VI	I	UNIT II: Control Structures & Arrays: if- statements, if-else statement, switch statement, go-to statement, while statement, do-while statement, for statement, one dimensional array.
		II	Unit II Instruction set: Data transfer, logical, arithmetic, interrupt handler, Addressing Modes
March	B.Sc. Sem. II	II	UNIT III: Counters: Asynchronous, up/down, Decade, Synchronous, Modified counter, Ring Counter, Johnson counter, unity, noise margin, fan in and fan out. Unit II: TRIAC and UJT, UJT as relaxation oscillator Unit III: Amplifier parameters, notations, concept and definition of h-parameters, open circuit and short circuit tests, Introduction to input impedance, output impedance,
		I	
	B.Sc. Sem. IV	I	Unit III: D/A converter, parameter: range, resolution, linearity and speed, weighted type D/A, limitations of weighted type D/A, R-2R D/A using Op Amp, limitations, types of D/A output , dual bias D/A Unit II: Active: Piezo-electric transducer, Digital: pressure sensor (MPXV4006DP) . Unit III: Block diagram of : temperature measurement using thermister, temperature measurement using LM35, advantage over thermister ,lux meter using LDR.
	B.Sc. Sem VI	I	Unit III: User Defined Functions, Types of functions, return values and their types, scope and lifetime of variables in function; basic concept of structure and unions, difference between structure and union
		II	Unit III Subroutine and Stack, Need for Subroutine LCALL and RETURN Instructions, ACA Instructions, Nesting of subroutine, Stack Operation and Stack Instruction, Branching (Jump Instruction), simple programs
April	B.Sc. Sem. II	II	UNIT IV: Registers: Buffer, left shift, right shift, SISO, SIPO, PISO, PIPO Registers, introduction to memories, classification, Memory expansion (word size and word capacity) Unit III: current, voltage and power gains using h parameters, classification of amplifiers Unit IV: Introduction to power transistor, difference between Voltage and power amplifiers, transformer coupled class A power amplifier and its efficiency, class B Push-pull amplifier, derivation for efficiency, complementary symmetry power
		I	
	B.Sc. Sem. IV	I	Unit IV: Need for A/D conversion, parameters: range, resolution and speed, single slope A/D converters, dual slope A/D converter, Counter type, successive approximation type, Flash type, sampling theorem, Reference voltage and ADC Unit III: colorimeter using LDR ,insect repellent using piezo buzzer Unit IV: Man-Instrument system, components, introduction to physiological system, generation of bio potential, Block diagram and working of EEG, ECG & EMG, electrical shock hazards, precautions, safety codes biomedical
		II	
	B.Sc. Sem. VI	I	Unit IV: Pointers: Basic concept, expression, variables Defining and opening file, closing a file, I/O operations on file, command line arguments, port interfacing.
		II	Unit IV Interfacing with Keyboard, display - LCD (16 x 2), ADC and DAC, LED Matrix and Serial communication with personal computer
May	B.Sc.		Revision


HEAD

DEPARTMENT OF ELECTRONICS
WABIR MAHAVIDYALAYA, KATOI



	Sem. II	I	Unit IV: class B Push-pull amplifier, derivation for efficiency, complementary symmetry power
		II	
	B.Sc. Sem. IV	I	Revision
		II	Unit IV: working of ECG & EMG, electrical shock hazards, precautions, safety codes biomedical
	B.Sc. Sem VI	I	Revision
		II	Revision
Summer Vacation	Summer 08/05/2023 to 15/06/2023		


 HEAD
 DEPARTMENT OF ELECTRONICS
 KATRA MAHAVIDYALAYA, KATOL

DAY	TIME CLASS	8.00-8.48	8.48-9.36	9.36-9.40	9.40-10.28	10.28-11.16	11.16-11.20	11.20-12.08-12.56-1.44	1.44-2.32-3.20-4.08-4.56
MON	B. Sc-I (G)								
	B. Sc-I (NG)								
TUE	B. Sc-II (G)		ELE						ELE(T)(1.44-2.32)
	B. Sc-II (NG)								ELE(T)(2.32-3.20)
	B. Sc-III (G)								
	B. Sc-III (NG)								
	B. Sc-I (G)								
	B. Sc-I (NG)								
WED	B. Sc-II (G)								
	B. Sc-II (NG)								
	B. Sc-III (G)								
	B. Sc-III (NG)								
	B. Sc-I (G)								
	B. Sc-I (NG)								
THU	B. Sc-II (G)								
	B. Sc-II (NG)								
	B. Sc-III (G)								
	B. Sc-III (NG)								
	B. Sc-I (G)								
	B. Sc-I (NG)								
FRI	B. Sc-II (G)								
	B. Sc-II (NG)								
	B. Sc-III (G)								
	B. Sc-III (NG)								
	B. Sc-I (G)								
	B. Sc-I (NG)								
SAT	B. Sc-II (G)								
	B. Sc-II (NG)								
	B. Sc-III (G)								
	B. Sc-III (NG)								
	B. Sc-I (G)								
	B. Sc-I (NG)								

Theory =18 Practical =18 Tutorial=05 Total Workload=41
 Dr. Sachin Bahade=18 * Excess workload=23

Sachin Bahade
 HEAD

DEPARTMENT OF ELECTRONICS
 NABIRA MAHAVIDYALAYA, KATOL

DEPARTMENTAL ACTION PLAN

2022-2023

Departments of Microbiology

B.Sc. Microbiology (Sem I)

Sr. No.	Events/Particulars (Semester I)	Month Wise Plan
1	Theory classes commencement from	Second week of July 2022
2	Beginning of Internal Assessment Process	First week of August 2022
3	Meeting of Parents –Teacher Association	First week of August 2022
4	Organized Guest Lecture on Scope and Job Opportunities in Microbiology and Biotech.	1/8/2022 to 15/8/2022
5	Class Room Unit Test I	Second Week of August 2022
6	Unit Test II	Last week of August 2022
7	Meetings of Mentor and mentee	Last week of August 2022
8	Course Based Student Seminar for internal Assessment	1/9/2022 to 10/9/2022
9	Unit Test III	Second week of September 2022
10	Swachh Pani Janjagruti Abhiyan Best Practices 1	Third Week of September 2022
11	Bio fertilizer Awareness Campaign Best Practices 2	Last Week of September 2022
12	Industrial Visit	First week of Oct.2022
13	Unit Test IV	Second week Oct.2017
14	University Examination and Winter Vacation	Last week of Oct.2017 to second Week of December 2022



Semester II

1	Theory classless commencement from	Second week of Dec. 2022
2	Beginning of Internal Assessment Process	First week of January 2023
3	Unit Test I	First week of Jan. 2023
4	Organize Guest Lecture Under MOU (ASC college Pulgaon)	Second Week of Feb. 2023
5	Unit Test II	Third Week of Feb.2023
6	Meetings of Mentor and mentee	Last week of Feb. 2022
7	Student Seminar Based on Syllabus	Last week of Feb.2023
8	Educational Visit/Tour	First week of March 2023.
9	Unit Test III	Second Week of March 2023.
10	Multiple Choice Quiz Competition	Second Week of March 2023.
11	Meeting of Parents –Teacher Association	Last week of March 2022
12	Unit Test IV	First Week of April 2023
13	Industrial Visit	First week of April 2023
14	University Examination and Summer Vacation	Third Week of April 2023




HOD

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Department of Microbiology
& Biotechnology, Nabira
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DEPARTMENTAL ACTION PLAN

2022-2023

Departments of Microbiology

M.Sc. Microbiology (Sem I)

Sr. No.	Events/Particulars (Semester I)	Month Wise Plan
1	Theory classes commencement from	First week of July 2022
2	Beginning of Internal Assessment Process	First week of August 2022
3	Meeting of Parents –Teacher Association	Second week of August 2022
4	Organized Guest Lecture on Scope and Job Opportunities in Microbiology and Biotech.	Second week of August 2022
5	Class Room Unit Test I	Second Week of August 2022
6	Unit Test II	Third week of August 2022
7	Meetings of Mentor and mentee	Last week of August 2022
8	Course Based Student Seminar for internal Assessment	1/9/2022 to 10/9/2022
9	Unit Test III	Second week of September 2022
10	Swachh Pani Janjagruti Abhiyan Best Practices 1	Third Week of September 2022
11	Bio fertilizer Awareness Campaign Best Practices 2	Last Week of September 2022
12	Industrial Visit	First week of Oct.2022
13	Unit Test IV	Second week Oct.2017
14	University Examination and Winter Vacation	Last week of Oct.2017 to second Week of December 2022



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Semester II

1	Theory classless commencement from	Third week of Dec. 2022
2	Beginning of Internal Assessment Process	First week of January 2023
3	Unit Test I	First week of Jan. 2023
4	Organize Guest Lecture Under MOU (ASC college Pulgaon)	Second Week of Feb. 2023
5	Unit Test II	Third Week of Feb.2023
6	Meetings of Mentor and mentee	Last week of Feb. 2022
7	Student Seminar Based on Syllabus	Last week of Feb.2023
8	Educational Visit/Tour	First week of March, 2023.
9	Unit Test III	Second Week of March, 2023.
10	Multiple Choice Quiz Competition	Second Week of March 2023.
11	Meeting of Parents –Teacher Association	Last week of March, 2022
12	Unit Test IV	First Week of April, 2023
13	Industrial Visit	First week of April 2023
14	University Examination and Summer Vacation	From Third Week of April, 2023



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DEPARTMENTAL ACTION PLAN
2022-2023
Departments of Microbiology and Biotechnology

B.Sc. Microbiology

Sr. No.	Events/Particulars	Month Wise Plan
1	Organized Guest Lecture on Scope and Job Opportunities in Microbiology and Biotech.	Second week of August 2022
2	Meetings of Mentor and mentee	Last week of August 2022
3	Student Seminars	1/9/2022 to 10/9/2022
4	Swachh Pani Janjagruti Abhiyan Best Practices 1	Third Week of September 2022
5	Bio fertilizer Awareness Campaign Best Practices 2	Last Week of September 2022
6	Industrial Visit	First week of Oct.2022
7	Online workshop on Molecular Techniques	First Week of December 2022
8	Organize Guest Lecture Under MOU (ASC college Pulgaon)	Second Week of Feb. 2023
9	Educational Visit/Tour	First week of March, 2023.
10	Multiple Choice Quiz Competition	Second Week of March 2023.
11	Meeting of Parents –Teacher Association	Last week of March, 2022
12	Industrial Visit	First week of April 2023




 Head
 Department of Microbiology
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DEPARTMENTAL ACTION PLAN

2022-2023

Departments of Microbiology

M.Sc. Microbiology

Sr. No.	Events/Particulars (Semester I)	Month Wise Plan
1	Organized Guest Lecture on Scope and Job Opportunities in Microbiology and Biotech.	Second week of August 2022
2	Meetings of Mentor and mentee	Last week of August 2022
3	Student Seminars	1/9/2022 to 10/9/2022
4	Swachh Pani Janjagruti Abhiyan Best Practices 1	Third Week of September 2022
5	Bio fertilizer Awareness Campaign Best Practices 2	Last Week of September 2022
6	Industrial Visit	First week of Oct.2022
7	Online workshop on Molecular Techniques	First Week of December 2022
8	Organize Guest Lecture Under MOU (ASC college Pulgaon)	Second Week of Feb. 2023
9	Educational Visit/Tour	First week of March, 2023.
10	Multiple Choice Quiz Competition	Second Week of March 2023.
11	Meeting of Parents –Teacher Association	Last week of March, 2022
12	Industrial Visit	First week of April 2023



H. S. S. S.
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Department of Microbiology
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Mahavidyalaya, Katol

DEPARTMENT OF MICROBIOLOGY AND BIOTECHNOLOGY, 2022-23

			8.00-8.48	8.48-9.36	9.40-10.28	10.28-11.16	11.16-11.20	11.20-12.08	12.56-1.44		
B.Sc. I	MB	Paper I				NBH (M,T,W)	Practical Classes (W,Th) NBH/DMR				
		Paper II				DMR (Th,F,S)					
	BT	Paper I			NBH (M,T,W)		Practical Classes (M,T) NBH				
		Paper II			ASC (Th,F,S)						
B.Sc. II	MB	Paper I		DMR (MTW)			Practical Classes (M,T) NBH				
		Paper II		NBH (Th,F,S)							
	BT	Paper I				MTW ASC	Practical Classes (F,S) ASC				
		Paper II				ASC (Th. F. S)					
B.Sc. III	MB	Paper I			JAL/NBH (Th,F,S)		Practical Classes (F,S) DRM				
		Paper II			DMR (MTW)						
	BT	Paper I		MTW SPN			Practical Classes (W,Th) ASC				
		Paper II		TFS ASC							

NBH:- DR. N.B. HIRULKAR/ ASC:- MRS. ADITI S. CHANDAK/ DMR:- KU. D.M. RIDHORKAR/ SPN: - MRS.S.P. NABIRA/ JAL:- MRS. J.A. LAAD





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DEPARTMENT OF MICROBIOLOGY 2022-23

			9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.30	1.30-2.30	2.30-3.30	3.30-4.30	4.30-5.30	
M.Sc. I	MB	Paper I		JAL (M,T,W)			Practical I				
		Paper II		SPN (Th,F,S)							
		Paper III	NBH (Th,F,S)				Practical II				
		Paper IV	DMR (M,T,W)								
M.Sc. II	MB	Paper I					Practical I				
		Paper II			JAL (Th,F,S)						
		Paper III			NBH (M,T,W)			Practical II			
		Paper IV	DMR (Th,F,S)								

NBH:- DR. N.B. HIRULKAR / DMR:- KU. D.M. RIDHORKAR/ SPN:- MRS.S.P. NABIRA/ JAL:- MRS.




 Head
 Department of Microbiology
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 Mahavishwavidyalaya, Katol

DEPARTMENT OF MICROBIOLOGY & BIOTECHNOLOGY

NABIARA MAHAVIDYALAYA, KATOL

Ref. No. SY/C/02/MAR23

Date 10/03/2023

Departmental Notice

All faculty members are here to inform that a meeting regarding syllabus competition will be held on 10/3/2023 at 11.30 am, in the Department with HOD.

Inform to

1. Dr. N.B. Hirulkar NBH
2. Mrs. A.S. Chandak AS
3. Miss D.M. Ridhorkar D.M.R
4. Mrs. S.P. Nabira SPN
5. Mrs. J.A. Lad J.A.L



NBH
Dr. N.B. Hirulkar
Head

Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya, Katol

Course Completion Status 2022-23

Sr. No.	Name of Class	Paper	Name of teachers	Course completion Status
1	B.sc. sem II	II	Dr. N.B. Hirulkar	100%
2	B.sc. sem II V	II	Dr. N.B. Hirulkar	100%
3	B.sc. sem VI	II	Mrs. J.A. Lad	100%
4	B.sc. sem II	I	D.M. Ridhorkar	100%
5	B.sc. sem IV	I	D.M. Ridhorkar	100%
6	B.sc. sem VI	I	D.M. Ridhorkar	100%
7	B.sc. sem II	I	Dr. N.B. Hirulkar	100%
8	B.sc. sem IV	I	Mrs. S.P. Nabira	100%
9	B.sc. sem VI	I	Mrs. S.P. Nabira	100%
10	B.sc. sem II	II	Mrs. A.S. Chandak	100%
11	B.sc. sem IV	II	Mrs. A.S. Chandak	100%
12	B.sc. sem VI	II	Mrs. A.S. Chandak	100%



NBH
Dr. N.B. Hirulkar
Head

Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya, Katol

DEPARTMENT OF MICROBIOLOGY & BIOTECHNOLOGY

NABIARA MAHAVIDYALAYA, KATOL

Ref. No. 54/C/01/Oct 22

Date 10/9/2022

Departmental Notice

All faculty members are here b inform that a meeting regarding **syllabus competition** will be held on 10/9/2022 at 11.30 am, in the Department with HOD.

Inform to

1. Dr. N.B. Hirulkar NB
2. Mrs. A.S. Chandak AS
3. Miss D.M. Ridhorkar DMR
4. Mrs. S.P. Nabira SP
5. Mrs. J.A. Lad JAL



NB
Dr. N.B. Hirulkar
Head

Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya, Katol

Course Completion Status 2022-23

Sr. No.	Name of Class	Paper	Name of teachers	Course completion Status
1	B.Sc. sem I	I	Dr. N.B. Hirulkar	100%
2	B.Sc. sem II	II	Dr. N.B. Hirulkar	100%
3	B.Sc. sem V	I	Mrs. J.A. Lad	100%
4	B.Sc. sem I	II	D. M. Ridhorkar	100%
5	B.Sc. sem III	I	D. M. Ridhorkar	100%
6	B.Sc. sem V	II	D. M. Ridhorkar	100%
7	B.Sc. sem I	I	Dr. N.B. Hirulkar	100%
8	B.Sc. sem III	I	Mrs. S.P. Nabira	100%
9	B.Sc. sem V	I	Mrs. S.P. Nabira	100%
10	B.Sc. sem I	II	Mrs. A.S. Chandak	100%
11	B.Sc. sem III	II	Mrs. A.S. Chandak	100%
12	B.Sc. sem V	II	Mrs. A.S. Chandak	100%



NB
Dr. N.B. Hirulkar
Head

Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN-2022-23
To be submitted to the Teacher Appraisal committee

Name of the Teacher: Dr. N.B. Hirulkar

Dept.: Microbiology

Subject/Paper: Microbiology/ Paper I

Class: B.Sc. I Year (Sem I & II)

Month	Topics to be covered
-------	----------------------

Semester I/ Paper I

June :

July: History and scope of Microbiology. Discovery of microbe, Theory of biogenesis and abiogenesis.

Contribution of Louis Pasteur, Lister, Winogradsky, Robert Koch and Beijerinck, John Tyndal. Branches of Microbiology,

August:

Prokaryotic cell structure, A typical Bacterial cell structure, Structure of cell wall (- gram +ve, gram - ve), Cell membrane: Fluid mosaic model, mesosomes, ribosomes, Nucleoid, Plasmids, storage granule. Capsules, slime layer, Pili, Flagella (including types and structure), Endospore structure, formation and germination, Various Spore.

September:

Significance of classification, Intuitive classification, Whittaker five Kingdom system, Berg's manual ninth edition, numerical classification,

October

Approaches in modern classification: GC:AT Ratio, DNA Hybridization, 16S rRNA Cataloguing and phylogeny.

Diwali Vacation



NB Hirulkar

Semester II /Paper II

November

Microscopy - Principle and application

December

Bright field microscopy, Dark field microscopy, Electron Microscopy(TEM.SEM), Confocal microscopy, Microscopy - Principle and application, Atomic force Microscopy, Phase contrast microscopy, Fluorescent microscopy

January

Staining techniques, Stains and dyes.chromophore,auxochrome,chromogens,types of stains, Staining techniques – Simple ,differential,gram staining acid fast staining, Staining of specific structure-Flagella,spores,capsule(negative),

February:

Nutritional and growth techniques, Isolation of pure culture- various techniques, Determination of CNP etc. by auxeno graphic and replica plate technique

March:

,Synchronous culture techniques, Measurement of growth. Theory of staining,



[Handwritten Signature]
Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN-2022-2023
To be submitted to the Teacher Appraisal committee

Name of the Teacher: Ku. D.M. Ridhorkar

Dept.: Microbiology

Subject/Paper: Microbiology/ Paper II

Class: B.Sc. I (SEM I & II)

Month

Topics to be covered

Semester I

June :-

Introduction of Microbiology & General characters of Microbes.

July :-

a) Proteobacteria, b) Mycoplasma and Chlamydia Cynobacteria: Study of anabaena and application of Cynobacteria, Actinomycetes: Streptomycin and their importance Fungi and yeast: General characters, Asexual and sexual mode of reproduction, slide culture techniques.

August:-

Differences between prokaryotes and eukaryotes. Algae: General characters and industrially important algal cell, Protozoans: General characters and life cycle of trypanosome,

September:-

Detection of viral growth, T4- Bacteriophages, lytic cycle, Lysogeny and Lambda viruses. Acellular microbes: Viruses. Discovery of viruses, General structure, symmetry and classification, Cultivation, chick embryo. Tissue culture,

October

Positive and negative interaction: Commensalism, syntrophism, mutualism, parasitism, predation etc. Protist-Protist Interaction: Bdellovibrio Protist- Plant Interaction



Diwali Vacation

Semester II

November

Root nodule bacteria Protist- Animal interaction: Rumen bacteria, insect midgut bacteria, luminescent bacteria

December.

Nutritional types of bacteria, Basic nutritional requirements, Types of culture media, growth Selective, enriched, enrichment, synthetic non synthetic. Axenic culture. Diauxic cultures. Bacterial cell cycle, Principle of growth curve and mathematical expression, Continuous culture: Turbidostat and chemostat, Factors influencing microbial growth.

January

Concept of microbial death, General terms: microbiostatic, microcidal, disinfectant, sanitizer Ideal antimicrobial agents. Physical methods

February

Phenolics, Alcohols, Halogens, Heavy metals, Quaternary ammonium compounds, a) Heat and moist sterilization b) Dry sterilization c) Low temperature Filtration e) radiation f) osmotic pressure

March

Biguanides-Chlohexidines, surface active agents, Aldehydes, b) Gaseous sterilization, c) Chemotherapeutic agents, Mechanism of cell injury, Factors influencing antibiotic activity




Signature

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN-2022-2023

To be submitted to the Teacher Appraisal committee

Name of the Teacher: Ku. D.M. Ridhorkar

Dept.: Microbiology

Subject/Paper: Microbiology/ Paper II

Class: B.Sc. II Year (Sem I & II)

Month	Topics to be covered
-------	----------------------

Semester I

June:-

Introduction of Enzymology, Classification of carbohydrates

July

Chemistry of Organic constituents and Enzymology, , Structure of glucose , fructose, maltose, lactose,sucrose,raffinose,starch,hyaluronic acid, glycogen ,cellulose,osazone formation

August

Classification of lipids, structure of triglyceride, compound lipids, derived lipids. Definition and nature of enzymes, classification, nomenclature, primary concept of enzyme Kinetics,MM equation ,modifications of MM equations, activation energy, transition state ,ES coplex.enzyme activity.Katal,specific activity,turn over number

September

Classification of amino acids, and their special characteristics, organizational levels of proteins, Enzyme inhibition and their types, enzyme regulation ,their types,allosteric sites,allosteric modulators,functional diversity such as holoenzyme,apoenzyme coenzyme,cofactor,prosthetic group,isoenzymes,



October

Membrane bound enzymes, multienzyme complex, zymogens Structure of Purines pyrimidines, nucleosides, nucleotides, DNA, RNA, AND Various forms of DNA Types of Vitamins, Classification on the basis of solubility functions of vitamins, Hyper and hypovitaminosis

Diwali Vacation

Semester II

November

General Strategy of metabolism, EMP Pathway and its regulation, TCA cycle and its regulation, Outline of ED Pathway, Pentose Phosphate pathway, PK Pathway

December

Betaoxidation, Omegaoxidation, Replication of DNA, modes of replication, general features, enzyme involved rolling circle and Knife and fork model, Prokaryotic

January

Transcription including general features enzymes involved and reverse transcription Amino acid breakdown, deamination, (alanine, tyrosine, methionine)

February

Urea cycle, metabolic breakdown of individual amino acids, glycogenic and Ketogenic amino acids, Genetic code and Prokaryotic translation

March

High energy molecules, Substrate level phosphorylation, Cyclic and noncyclic photophosphorylation, Oxidative phosphorylation, and ATP generation



D. D. D.

Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN-2022-2023
To be submitted to the Teacher Appraisal committee

Name of the Teacher: Dr. N.B. Hirulkar

Dept.: Microbiology

Subject/Paper: Microbiology/ Paper II

Class: B.Sc. II Year

Month

Topics to be covered

June

Fundamental of industrial microbiology,

July

Scope of industrial microbiology, general concept, primary screening, secondary screening, strain development, sterilization of Fermentors, production media and air.

August

Fermentor design, Types of fermentation processes, design of typical fermentor, parts of fermentor, factors affecting fermentor design, control of agitation, aeration, pH, and dissolved oxygen, types of fermentor

September:

Scale UP and DSP, Inoculum development, scale up of fermentor process, raw media for media preparation, harvesting and product recovery,

Industrial Production, Production, biochemistry, recovery and uses of-SCP, Bakers yeast, ethanol, penicillin, semisynthetic penicillin, citric acid,

October



Vit B12 and beer and wine Production

Diwali Vacation

November

Significance of bacteriological analysis of water, collection handling of water sample

December:

Bacteriological analysis of water for coliform, fecal streptococci, MTFT. MFT

Water Treatment using SSF, RSF, Method of Chlorination, Deference between fecal and non fecal organisms

January

Sewage types, and composition, characteristics, BOD. COD. ThOD

Trickling Flirter, Activated Sludge, RBC, Sludge Digestion and Other method for wqater \water Treatment.

February

Microbial Analysis of Air and Its Method, Biopesticides, Biofertilizers, PSB. Mycorerrhiza. Biobleaching examples,

March

Food Spoilage And its organisms, Canning Process. Pasteurization, Preservation of FOOD, Low Temp. Chemical, Food borne Disease And Food Intoxication

Signature



NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN-2022-23

To be submitted to the Teacher Appraisal committee

Name of the Teacher: Ku. D.M. Ridhorkar

Dept.: Microbiology

Subject/Paper: Microbiology/ Paper I

Class: B.Sc. III Year

Month

Topics to be covered

Paper I

June

Introduction of Immunology and general feature . Bacteriology systemic.

July

Epidemiology and host –parasite relationship, Definations, Sign,symptoms and syndrome of disease ,stages of infection diseases-incubation period,prodromal phase,Invasive phase,decline phase and the prriod of convalescene,Primary infection,Secondary infection,acute infection,chronic infection,local and systemic infection.

Dynamics of disease transmission ;- Causative or etiological agents, Sources of reservoir of infection., Exogenous Humah (case and carrier) Non-living reservoir., Endogenous infection, Portal of exit, Mode of transmission-contact,Vehicle,Vector,Air-borne,transplacental and laboratory/hospital infections, Portal of entry.,Susceptibility of host.

Microbial mechanism of Pathogenicity: Pathogenicity and Virulence,exaltation and attenuation,MID,MLD,ID50,LD50. i) Invasiveness-adherence,capsule,enzymes., Toxigenicity-Exotoxins and Endotoxins., Normal flora of healthy human host, Defination,origin significance,Germ free and Gnotobiotic life., Characteristics of normal flora., c)Infectious microbiology: Microbial diseases of in,eye,digestive,respiratory,cardiovascular,lymphatic,urinary,reproductive and nervous systems.



August

Study of pathogenic organisms: Morphology, cultural characteristics, serology, lab diagnosis
Bacteria, Salmonella typhi and paratyphi A& B, Mycobacterium tuberculosis, Spirochetes-
treponemella palladium, Viruses, HIV, Hepatitis A&B, Protozoa, Plasmodium,

Nonspecific defenses of the host species, race and Individual resistances, age, sex, hormonal, and
nutritional influences, Mechanism of non specific defenses, First line of defence: Skin, mucus
membrane, Mechanical chemical and microbial defenses.

Second line of defense: Phagocytosis, inflammation, fever, interferon, complement system

September

Acquired immunity: Active and Passive immunity, Organ involved in immune function, Primary
lymphoid organs: Bursa, bone marrow, thymus..Secondary lymphoid organs: Lymph
nodes, spleen, MALT, GALT, CALT.

Diagram of Haematopoiesis., Cells of immune system: general characters of B and T cells,
Monocytes and macrophages, Neutrophils, Eosinophils and basophiles, Mast cells Dendritic cells

Natural Killer cells, B-Cell biology (Humoral immunity) Primary and secondary immune
response, Clonal Selection and clonal deletion (immune tolerance), T cell dependent antibody
response. T cell biology (cell mediated immunity),

of mutation: Mechanism of spontaneous and induced mutations

Types of T cell and cluster of differentiation (CD), CELL receptor, Cytotoxic T cell response, .
MHC molecules and antigen presentation (diagrammatic), Cytokines-Definition, types (colony
stimulating factors, Interleukins, Tumor necrosis factor alpha)

Antigens:-Definition, complete antigen, hapten, epitope, valence., Factors determining antigenicity
Antigenic mosaic of bacteria, Antigen in relation to human beings: Species,
specific, isoantigen, autoantigen (RA), organ specific antigens, Heterophile antigens.



October

Antibody Definition, General Structure, Classes of Immunoglobulins and their functions. Ag-Ab reactions (Diagnostic immunology), General features of antigen-antibody reactions.

Tagged antibody test: ELISA direct and indirect, Immunofluorescence, Hypersensitivity reactions: Definition, Gel & Coombs' Classification.,

Diwali Vacation

November

Type I (Anaphylaxis) Hypersensitivity: Mechanisms of anaphylaxis, systemic and localized anaphylaxis, prevention of anaphylaxis, Type II (Cytotoxic) Hypersensitivity, Blood transfusion reactions (Rh Compatibility, Hemolytic diseases of the newborn). Type III Hypersensitivity (Immune complex), Arthus reaction, Serum sickness, Type IV (DELAYED) Hypersensitivity, Mantoux test, allergic contact dermatitis.

December

Nonspecific defenses of the host species, race and individual resistances, age, sex, hormonal, and nutritional influences, Mechanism of non-specific defenses, First line of defence: Skin, mucus membrane, Mechanical chemical and microbial defenses.

Second line of defense: Phagocytosis, inflammation, fever, interferon, complement system

Acquired immunity: Active and Passive immunity, Organ involved in immune function, Primary lymphoid organs: Bursa, bone marrow, thymus. Secondary lymphoid organs: Lymph nodes, spleen, MALT, GALT, CALT.

Diagram of Haematopoiesis., Cells of immune system: general characters of B and T cells, Monocytes and macrophages, Neutrophils, Eosinophils and basophiles, Mast cells Dendritic cells



Natural Killer cells, B-Cell biology (Humoral immunity) Primary and secondary immune response, Clonal Selection and clonal deletion (immune tolerance), T cell dependent antibody response. T cell biology (cell mediated immunity),

January

Types of T cell and cluster of differentiation(CD), CELL receptor, .Cytotoxic Tcell response, . MHC molecules and antigen presentation(diagrammatic), .Cytokines-Defination,types (colony stimulating factors,Interleukins,Tumor necrosis factoralpha)

Antigens:-Defination,complete antigen,hapten,epitope,valence., Factors determining antigenicity
Antigenic mosaic of bacteria, Antigen in relation to human beings: Species,
specific,isoantigen,autoantigen(RA),organ specific antigens,Heterophile antigens.

February

Antibody Defination, Genral Structure, Classes of Immunoglobulins and their fuctions. Ag-Ab reactions(Diagnostic immunology), General features of antigen-antibody reactions.

Tagged antibody test:ELISA direct and indirect, Immunofluorescence, Hypersensitivity reactions:Defination,Gel&Commb's Classification.,

March

Type I (Anaphylaxis) Hypersensitivity:Mechanisms of anaphylaxis,systemic and localized anaphylaxis,prevention of anaphylaxis, Type II (Cytotoxic) Hypersensitivity, . Blood transfusion reactions(Rh Compatibility, Heamolytic diseases of the new borne. Type III Hypersensitivity(Immune coplex), Arthus reaction, Serum sickness, 2Type IV(DELAYED)Hypersensitivity, Mantoux test,allergic contact dermatitis.




Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN-2022-2023

To be submitted to the Teacher Appraisal committee

Name of the Teacher: MRS. J.A. LAD

Dept.: Microbiology

Subject/Paper: Microbiology/ Paper II
& VI)

Class: B.Sc. III Year (Sem V

Month	Topics to be covered
-------	----------------------

Semester V/ Paper II

June

Concept of gene, muton, recon, cistron.

July

Monocistronic and polycistronic gene, gene within gene, split gene. Gene regulation: lac operon (detail).

August

Mutation : Definition, random, Vs directed mutation, type of mutation, base pair substitution, frame shift, point, nonsense, missense and silent mutation. Genetic suppression: Intergenic and Intragenic. Molecular basis of mutation: Mechanism of spontaneous and induced mutations

September

Definition, Basic concept of recombination, General types of recombination, Transformation. Conjugation, Transductions, Transposable genetic elements (Prokaryotic) Spectroscopy: Laws of absorption, limitations of Beer's law, UV-Visible spectroscopy and its applications. Centrifugation:

October

Electrophoresis: Principle, Types of electrophoresis, agarose gel electrophoresis and SDS-PAGE. a) Chromatography: Thin layer chromatography, ion exchange, gel filtration, HPLC b) Isotope tracer technique. Detection and measurement of radioactive isotope: GM counter, scintillation counter.



Diwali Vacation

Semester VI / Paper II

November

Tools & techniques of genetic engineering

a) Preparation of pure samples of DNA. range of enzymes used in DNA manipulation, analysis of DNA fragment size, joining of DNA molecule vectors and their types.

b) Introducing R DNA into host cell, transformation of cells, identification of transformed cell, selection of clones direct and indirect method.

December:

c) Expression of cloned genes, construction of gene library, cells for cloning, expression of Prokaryotic genes.

d) PCR and its applications, DNA fingerprinting

Application of genetic engineering

Health Biotechnology

Production of hormone : insulin

Production of interferon

January

Production of vaccines: Conventional vaccine: BCG, salk, Diphtheria toxoid, ATS, DNA vaccine, Edible vaccines.

Hybridoma technology, monoclonal antibody formation

b) Agricultural biotechnology



i) Protoplast fusion

ii) Biopesticides

iii) Biofertilizers

February

c) Industrial biotechnology

i) Bio sensor and Nano biotechnology application

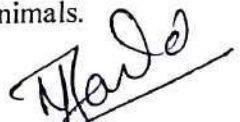
ii) Biochips and concept of microarray

a) Ethics and hazards of biotechnology

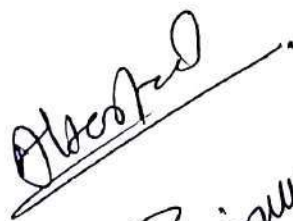
March


Food

- 1) Genetically modified food definition and one example
- 2) Oriental Fermented food: Soya sauce, miso, sufu
- 3) Transgenic PLANTS bt Cotton
- 4) Transgenic animals and clones : Knockout mice, Dollyship, Milching animals.


Signature







Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya, Katol


Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya, Katol

DEPARTMENTAL ACTION PLAN
2022-2023
Departments of Microbiology and Biotechnology
B.Sc. Biotechnology

Sr. No.	Events/Particulars	Month Wise Plan
1	Organized Guest Lecture on Scope and Job Opportunities in Microbiology and Biotech.	Second week of August 2022
2	Meetings of Mentor and mentee	Last week of August 2022
3	Student Seminars	1/9/2022 to 10/9/2022
4	Swachh Pani Janjagruti Abhiyan Best Practices 1	Third Week of September 2022
5	Bio fertilizer Awareness Campaign Best Practices 2	Last Week of September 2022
6	Industrial Visit	First week of Oct.2022
7	Online workshop on Molecular Techniques	First Week of December 2022
8	Organize Guest Lecture Under MOU (ASC college Pulgaon)	Second Week of Feb. 2023
9	Educational Visit/Tour	First week of March, 2023.
10	Multiple Choice Quiz Competition	Second Week of March 2023.
11	Meeting of Parents –Teacher Association	Last week of March, 2022
12	Industrial Visit	First week of April 2023





 Here
 Department of Microbiology
 & Biotechnology, Nabira
 Mahavidyalaya, Katol

DEPARTMENT OF MICROBIOLOGY AND BIOTECHNOLOGY, 2022-23

			8.00-8.48	8.48-9.36	9.40-10.28	10.28-11.16	11.16-11.20	11.20-12.08	12.56-1.44		
B.Sc. I	MB	Paper I				NBH (M,T,W)	Practical Classes (W,Th) NBH/DMR				
		Paper II				DMR (Th,F,S)					
	BT	Paper I			NBH (M,T,W)		Practical Classes (M,T) NBH				
		Paper II			ASC (Th,F,S)						
B.Sc. II	MB	Paper I		DMR (MTW)			Practical Classes (M,T) NBH				
		Paper II		NBH (Th,F,S)							
	BT	Paper I				MTW ASC	Practical Classes (F,S) ASC				
		Paper II				ASC (Th. F. S)					
B.Sc. III	MB	Paper I			JAL/NBH (Th,F,S)		Practical Classes (F,S) DRM				
		Paper II			DMR (MTW)						
	BT	Paper I		MTW SPN			Practical Classes (W,Th) ASC				
		Paper II		TFS ASC							

NBH:- DR. N.B. HIRULKAR/ ASC:- MRS. ADITI S. CHANDAK/ DMR:- KU. D.M. RIDHORKAR/ SPN: - MRS.S.P. NABIRA/ JAL:- MRS. J.A. LAAD





 Head
 Department of Microbiology
 & Biotechnology, Nabira
 Mahavishwavidyalaya Katol

DEPARTMENT OF MICROBIOLOGY 2022-23

			9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.30	1.30-2.30	2.30-3.30	3.30-4.30	4.30-5.30	
M.Sc. I	MB	Paper I		JAL (M,T,W)			Practical I				
		Paper II		SPN (Th,F,S)							
		Paper III	NBH (Th,F,S)				Practical II				
		Paper IV	DMR (M,T,W)								
M.Sc. II	MB	Paper I					Practical I				
		Paper II			JAL (Th,F,S)						
		Paper III			NBH (M,T,W)			Practical II			
		Paper IV	DMR (Th,F,S)								

NBH:- DR. N.B. HIRULKAR / DMR:- KU. D.M. RIDHORKAR/ SPN:- MRS.S.P. NABIRA/ JAL:- MRS.




 Head
 Department of Microbiology
 & Biotechnology, Nabira
 Mahavithayalaya, Katol

DEPARTMENT OF MICROBIOLOGY & BIOTECHNOLOGY

NABIARA MAHAVIDYALAYA, KATOL

Ref. No. SY/C/02/MAR23

Date 10/03/2023

Departmental Notice

All faculty members are here to inform that a meeting regarding syllabus competition will be held on 10/3/2023 at 11.30 am, in the Department with HOD.

Inform to

1. Dr. N.B. Hirulkar NBH
2. Mrs. A.S. Chandak AS
3. Miss D.M. Ridhorkar D.M.R
4. Mrs. S.P. Nabira SPN
5. Mrs. J.A. Lad J.A.L



NBH
Dr. N.B. Hirulkar
Head

Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya, Katol

Course Completion Status 2022-23

Sr. No.	Name of Class	Paper	Name of teachers	Course completion Status
1	B.sc. sem II	II	Dr. N.B. Hirulkar	100%
2	B.sc. sem II V	II	Dr. N.B. Hirulkar	100%
3	B.sc. sem VI	II	Mrs. J.A. Lad	100%
4	B.sc. sem II	I	D.M. Ridhorkar	100%
5	B.sc. sem IV	I	D.M. Ridhorkar	100%
6	B.sc. sem VI	I	D.M. Ridhorkar	100%
7	B.sc. sem II	I	Dr. N.B. Hirulkar	100%
8	B.sc. sem IV	I	Mrs. S.P. Nabira	100%
9	B.sc. sem VI	I	Mrs. S.P. Nabira	100%
10	B.sc. sem II	II	Mrs. A.S. Chandak	100%
11	B.sc. sem IV	II	Mrs. A.S. Chandak	100%
12	B.sc. sem VI	II	Mrs. A.S. Chandak	100%



NBH
Dr. N.B. Hirulkar
Head

Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya, Katol

DEPARTMENT OF MICROBIOLOGY & BIOTECHNOLOGY

NABIARA MAHAVIDYALAYA, KATOL

Ref. No. 54/C/01/Oct 22

Date 10/9/2022

Departmental Notice

All faculty members are here b inform that a meeting regarding **syllabus competition** will be held on 10/9/2022 at 11.30 am, in the Department with HOD.

Inform to

1. Dr. N.B. Hirulkar NB
2. Mrs. A.S. Chandak AS
3. Miss D.M. Ridhorkar DMR
4. Mrs. S.P. Nabira SPN
5. Mrs. J.A. Lad JAL



NB
Dr. N.B. Hirulkar
Head
Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya, Katol

Course Completion Status 2022-23

Sr. No.	Name of Class	Paper	Name of teachers	Course completion Status
1	B.Sc. sem I	I	Dr. N.B. Hirulkar	100%
2	B.Sc. sem II	II	Dr. N.B. Hirulkar	100%
3	B.Sc. sem V	I	Mrs. J.A. Lad	100%
4	B.Sc. sem I	II	D. M. Ridhorkar	100%
5	B.Sc. sem III	I	D. M. Ridhorkar	100%
6	B.Sc. sem V	II	D. M. Ridhorkar	100%
7	B.Sc. sem I	I	Dr. N.B. Hirulkar	100%
8	B.Sc. sem III	I	Mrs. S.P. Nabira	100%
9	B.Sc. sem V	I	Mrs. S.P. Nabira	100%
10	B.Sc. sem I	II	Mrs. A.S. Chandak	100%
11	B.Sc. sem III	II	Mrs. A.S. Chandak	100%
12	B.Sc. sem V	II	Mrs. A.S. Chandak	100%



NB
Dr. N.B. Hirulkar
Head
Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN-2021-2022
To be submitted to the Teacher Appraisal committee

Name of the teacher: Dr. N.B. Hirulkar

Dept.: Biotechnology

Subject/Paper: Biotechnology/ Paper I

Class: B.Sc. I Year (Sem I&II)

Month

Topics to be covered

Semester I /Paper I

June

July Introduction of Biotechnology & Microbiology,

Contribution of Louise Pasteur Robert Koch and Edward Jenner. Microscopy Compound Microscopy. Principle and application of Various Microscope. Electron microscopy Principle ,ray diagram and application ,TEM,SEM,.

August

Stains and staining procedures Acidic ,basic neutral stains Acid fast staining Flagella staining Endospore staining Bacterial morphology shapes size generalized diagram of typical bacterial cell slime layer ,capsule cell wall of gram +ve and gram -ve cells. General account of flagella and fimbriae chromatin material .plasmid, definition and kind of plasmid.

September

A brief idea Bergeys manual .Morphology of archaea,cell membrane other cell structure concept of three distinct archea groups Viruses general characteristics of viruses difference between viruses and typical bacterial. Cell structure different shapes symmetries with one examples of each type classification of viruses on the basis of nucleic acid phage and animal cell viruses example of each and their importance Brief idea of lytic cycle and lysogeny.

October Nutrition Basic nutritional requirements basic idea of such nutrients as water carbon nitrogen sulfur and vitamins etc. natural and synthetic media.



Semester I /Paper I

Diwali Vacation

November

Growth rate and generation time details of growth curve and its various phases.

December

Measurement of growth. Physical conditions required for growth Temperature classification of organisms on the basis of temperature .ph etc. pure culture. Cell membrane denaturation of protein inhibition of protein synthesis transcription.

January

Temperature moist heat autoclave dry heat hot air oven surface tension osmotic pressure radiation UVlight,electricity filtration Microbial control Sterilization disinfection antiseptic sanitization germicide microbistasis preservative and antimicrobial agents mechanisms of cell injury damage to cell wall. Chemical control antiseptic and disinfectants alcohol halogen gaseous sterilization concept of biological control Eukaryotic cell.

February

Structure and function of the nucleus nucleolus Golgi complex endoplasmic reticulum lysosomes peroxisomes vacuoles

March

Plant cell wall cytoskeleton and cell locomotion Mitosis and meiosis brief idea of cell cycle muscles and nerve cell structure synaptic transmission neuromuscular junction.



NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN-2021-2022

To be submitted to the Teacher Appraisal committee

Name of the teacher : Mrs. A.S.Chandak

Dept.:

Biotechnology

Subject/Paper: II Class: B.Sc I (Sem I & II)

Month	Topics to be covered
June	* Introduction: Biotechnology Scope and Importance.
July Crick Model DNA, Sequencing.	* Chemical Structure and Base Composition of Nucleic Acid, Watson Forms of DNA (A,Z DNA), Structure of tRNA, Maxam Gilbert DNA Sequencing.
August Curve, Chromatin	* Concept of Prokaryotic and Eukaryotic gene, C-value paradox, Cot Str., Nucleosome Str., Histone Protein, Telomere & Centromere.
September Titration Curve	* Structure and Classification of Amino acid, Physio Chemical Properties, of Neutral, Basic and Acidic Amino acids.
October Tertiary Structure Oligomeric Protein.	* Primary Structure of Protein, Secondary Structure (α helix & β Str.), (Myoglobin), Quaternary Structure , Forces Stabilizing, Concept of Oligomeric Protein.
Diwali Vacation	
November Disaccharides	* Carbohydrates, Definition, Classification, Structure of Monosaccharides, Polysaccharides (homopolysaccharides- eg: starch, glycogen), heteropolysaccharides.
December	* Lipids: Definition, Types, Triglycerides, Structure of Saturated & Unsaturated fatty acid.



January
Str. of steroids.

* Phospholipids, Plasmalogens, Sphingolipids, terpenoids and Isoprenoids,

February
Inhibitor,
enzyme,

* Enzymes: Terminology, Active site, Holoenzyme, Substrate, Activator,
Concept of Isoenzyme (LDH), Concept of Multienzyme (PDH), Allosteric
Mechanism of Acid Base, Covalent and Metal ion catalysis.

March
equation, Factors
Irreversible

* Proof reading mechanism, Lock and key and Induced Fit Model, MM
affecting enzyme activity, Enzyme Inhibition Kinetics, Brief idea of
Inhibition, Methods of Enzyme Assay.


Signature



NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN-2021-2022
To be submitted to the Teacher Appraisal committee

Name of the teacher: A.S. Chandak

Dept.: Biotechnology

Subject/Paper: Biotechnology/ Paper I

Class: B.Sc. II Year (Sem III & VI)

Month

Topics to be covered

Semester III /Paper I

June

Bioenergetics concept of free energy Entropy Enthalpy & Redox potential

July

Concept of high energy bonds as related to the structure of ATP. phosphoenolpyruvate, creatine phosphate etc.

August

Glycolysis (pathway, entry of other monosachharides. regulation, inhibitors) Gluconeogenesis: Bypass reaction. Structure of mitochondria TCA cycle detailed account, regulation amphibolic and anaplerosis. Electron transport chain sites of ATP synthesis, chemiosmotic theory of oxidative phosphorylation, and Non-oxidative deamination

September

Lipid metabolism, β -oxidation of fatty acid, role of carnitine, oxidation of unsaturated fatty acids odd carbon fatty acids regulation Ketogenesis, ketosis, & ketoacidosis in physiology pathology. Synthesis of fatty acid, fatty acid synthesis complex, regulation mitochondrial synthesis of chain elongation & synthesis of unsaturated fatty acids. Metabolism of nitrogenous compounds transamination mechanism oxidative & Non oxidative deamination Urea cycle detailed account, linkage of urea cycle



October

Transmethylation & decarboxylation, physiologically important products of decarboxylation biosynthesis of Purines and pyrimidines Salvage pathways.

Diwali Vacation

Semester VI /Paper II Mrs. A.S. Chandak

October

Migration of ion in electrical field, Factors affecting electrophoretic mobility

November

Paper electrophoresis –Electrophoretic run, detection cellulose acetate electrophoresis, High voltage electrophoresis Gel electrophoresis- types of gel solubilizers procedure column slab gels .detection, recovery, Estimation of macromolecules.

December

SDS-PAGE Electrophoresis –Application, determination of molecular weight of protein .Determination of subunit stoichiometry, Molecular biology applications.

January

Radioactive & stable isotopes, rate of radioactive decay, Units of radioactivity, measurement of radioactivity Ionization chambers proportional counters, Geiger-muller counter,

February

Solid and liquid scintillation counters Cerenkov radiation measurement of stable isotopes Falling drop method for deuterium measurement Mass spectrometry. Principles of tracer techniques advantages and limitations application of isotopes in biotechnology, distribution studies, metabolic studies, isotope dilution techniques metabolic studies clinical application. Basic principle .concept of RCF, types of centrifuge

March



High speed centrifuge, Ultra Centrifuge, Preparative |Centrifugation Differential and Density gradient centrifugation. Application. Analytical Centrifugation. And their various aspects. Biostatistics, Basic Concept of Mean Median Mode Standard Deviation and Standard Error.


Signature



NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN-2021-2022
To be submitted to the Teacher Appraisal committee

Name of the teacher: Mrs. A.S.Chandak

Dept.: Biotechnology

Subject/Paper: II

Class: B.Sc II (Sem III & IV)

Month	Topics to be covered
Semester III/Paper II	
June	Principle of spectrophotometer, Concept of Electromagnetic radiation, Chromophores and auxochromes.
July	Beer's Law derivation and deviations, Instrumentation of UV and visible Spectrophotometer and its application, Double beam and dual wavelength spectrophotometer
August	Principles of IR, Mass spectrophotometer principle, Instrumentation of Flame photometry.
September	



Principles of Paper Chromatography, Partition coefficient, Thin layer chromatography & application, Column chromatography concept, Gel filtration.

October

Ion exchange, Affinity chromatography, High pressure liquid chromatography.

Diwali Vacation

Semester IV/Paper II

November

Principle of Electrophoresis, Migration of ion in electrical field, Factors affecting electrophoretic mobility. Types of electrophoresis – Paper, Cellulose Acetate
Electrophoresis, High Voltage electrophoresis, Gel electrophoresis- types of gel, solubilizers, procedure, column & slab gels, Estimation of macromolecules.

December

SDS-PAGE Electrophoresis – Principle, Procedure, Application (determination of Molecular weight of protein, determination of subunit stoichiometry, Molecular biology applications.), Pulse field gel electrophoresis.

January

Radioactive & stable isotopes, rate of radioactive decay, Units of radioactivity, measurement radioactivity Ionization chambers, proportional counters, Geiger-muller counter.

February

Solid and liquid scintillation counters, Cerenkov radiation. Measurement of stable isotopes: Falling drop method for deuterium measurement, Mass spectrometry. Principles of tracer techniques advantages and limitations, application of isotopes in biotechnology,

March

Basic principle of Centrifuge.



Types of Centrifuge: High speed centrifuge, Preparative Centrifugation:
Differential and Density gradient, Application, Analytical Centrifugation. Concept of
Biostatistics, Mean,
Median, Mode, Standard Deviation and Standard Error.




Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN-2021-2022

To be submitted to the Teacher Appraisal committee

Name of the teacher: Mrs. A.S.Chandak

Dept.: Biotechnology

Subject/Paper: I

Class: B.Sc III (Sem V & VI)

Month	Topics to be covered
June	* DNA Replication, Enzymes involved in replication.
July. semiconservative replication, Use	* (Initiation, ori C, elongation, termination), Proof for of DNA replication mutant.
August Mechanisms- NER,	* Gene mutations, Types, Mutagens- Physical & Chemical, Repair BER, light induced, SOS.
September elongation,	* Transcription- RNA polymerase, Concept of promoter, Initiation, termination. Role of auxiliary protein, NusA protein.
October	* Brief idea of reverse transcription, Regulation, Lac & Trp operon.
Diwali Vacation	
November	* Water and Waste water Treatment, Primary & Secondary treatment.
December drinking water	* Advance Treatment, Chlorination, Ozonation, Current Community treatment, Assessment of water quality, BOD, DO, COD.
January Biodegradation,	* Indicator of faecal coliform, MPN, MFT, IMVIC, Concept of Biodeterioration, Biotransformation, Biomagnification, Bioaccumulation.
February MO's,	* Commercial product produced by MO's, Isolation, Screening method of Concept of GMO's and application.
March products, Production	* Quality control and Quality assurance of food and pharmaceutical of Cheese, mushroom, spirulina.


Signature



NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN-2021-22
To be submitted to the Teacher Appraisal committee

Name of the teacher: Mrs. S.P. Nabira

Dept.: Biotechnology

Subject/Paper: II

Class: B.Sc III Year

(SEM V & VI)

Month	Topics to be covered
June	* Genetic code, Characteristic features of Genetic code.
July	* Structure of tRNA, Aminoacyl synthetase, attachment of Amino acid to tRNA, Woovle hypothesis, Shine & Dalgarno sequence, 16s rRNA.
August	* Protein synthesis: Initiation, elongation, termination, regulation of translation, r-Protein, T ₄ Phage, p ³² protein, antibiotic affecting translation.
September	* Basic concept of rDNA technology, enzyme of rDNA manipulation, restriction endonucleases, vectors (plasmids, cosmids, YAC, BAC, phagemids).
October	* Transformation, transfection, screening method, Application of r DNA, genomic, cDNA library, PCR technique.
Diwali Vacation Mrs. A.S. Chandak	
November	* Intoduction to plant tissue and cell culture, tissue culture media, lab facilities.
December	* Technique in PTC, Callus, suspension culture, single cell culture, micropropogation,



PTC.

January

* Concept of transgenic plants (BT cotton and other plants), Ti plasmids.

February

applications, ATC cell

* Animal tissue and cell culture, tissue culture media, lab facilities,

senescence. **March**

product (Insulin, Vaccine,

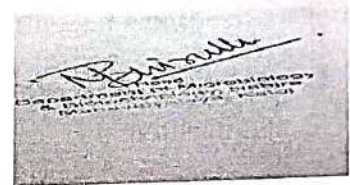
culture characteristics, contact inhibition, cell-cell communication, cell

* Cell lines, mortal and immortal, maintainance in lab, rDNA

GH), Gene therapy, IVF in humans and farm animals.



Signature





NABIRA MAHAVIDYALAYA, KATOL
DEPARTMENT OF COMPUTER SCIENCE
ACTION PLAN SESSION 2022-2023

The Month-wise Action Plan of the Department for the session 2022-2023 are as follows:-

Sr.No.	Name Of Month	Proposed Action Plan
1.	AUGUST	Workshop for Students
2.	October	Best From E-Waste Activity for Students
3.	JAN-2023	Guest Lecture
4.	FEB.	EDUCATIONAL TOUR(if possible)
5.	MARCH	Students Seminar

MR
Head

Department of Computer Science
~~Department of Computer Science~~
Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL
DEPARTMENT OF COMPUTER SCIENCE
SESSION 2022-2023

SR.NO.	8.48-9.36	9.40-10.28	10.28-11.16	11.20-1.44(PRACTICAL)
MON	B.SC.II (SRG)	B.SC.I (MRM)	B.SC.III (MRM)	B.SC.III (MRM+SRG)
TUE	B.SC.II (SRG)	B.SC.I (MRM)	B.SC.III (MRM)	B.SC.III (MRM+SRG)
WED	B.SC.II (SRG)	B.SC.I (MRM)	B.SC.III (MRM)	B.SC.II (MRM+SRG)
THU	B.SC.II (MRM)	B.SC.I (SRG)	B.SC.III (SRG)	B.SC.II (MRM+SRG)
FRI	B.SC.II (MRM)	B.SC.I (SRG)	B.SC.III (SRG)	B.SC.I (MRM+SRG)
SAT	B.SC.II (MRM)	B.SC.I (SRG)	B.SC.III (SRG)	B.SC.I (MRM+SRG)

MR
Head

Department of Computer Science
Nabira Mahavidyalaya, Katol

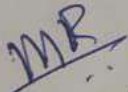
NABIRA MAHAVIDYALAYA, KATOL
DEPARTMENT OF COMPUTER SCIENCE
SESSION-2022-2023

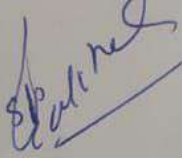
The meetings of Department of Computer Science was held on 21 st Oct. 2022 at 1:00 PM in which following members are present.

- 1) Miss M.R. Meshram ---- HOD & Asstt. Professor
- 2) Shri. S.R. Gakhare ---- Asstt. Professor

The following agenda was discussed---

- 1) Discussion on syllabus completion.
- 2) Discussion on submission of students internal assessment.
- 3) Discussion on practical completion of students.


Miss M.R. Meshram ---- HOD & Asstt. Professor


Shri. S.R. Gakhare ---- Asstt. Professor

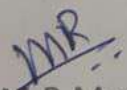
NABIRA MAHAVIDYALAYA, KATOL
DEPARTMENT OF COMPUTER SCIENCE
SESSION-2022-2023

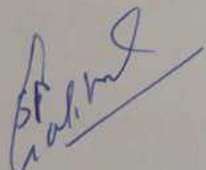
The meetings of Department of Computer Science was held on 27st April 2023 at 1:00 PM in which following members are present.

- 1) Miss M.R. Meshram ---- HOD & Asstt. Professor
- 2) Shri. S.R. Gakhare ---- Asstt. Professor

The following agenda was discussed---

- 1) Discussion on syllabus completion.
- 2) Discussion on submission of students internal assessment.
- 3) Discussion on practical completion of students.


Miss M.R. Meshram ---- HOD & Asstt. Professor


Shri. S.R. Gakhare ---- Asstt. Professor

NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN 2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of the Teacher:-Prof.Madhuri R. Meshram

Dept:-Computer Science

Subject/Paper I:Programming in C

Class:-B.Sc I(Semester I)

Month

Topics To Be Covered

June :-

July :- Unit I:-programming structure,problem solving techniques.

August :- Developing algorithm and drawing flowchart

Unit-II operator and expressions,Library Function.

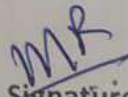
September :- unit-II:control structure statements, Unit -III :-Arrays strings ,functions

October :- unit-IV:-structure,union,pointer ,file handling

Diwali Vacations

November :-

December :-


Signature

NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN 2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of the Teacher:-Prof.Madhuri R.Meshram

Dept:-Computer Science

Subject/Paper :OOP using C++(Paper-I)

Class:-B.Sc. I(Semester II)

Month

Topics To Be Covered

November :-

December :-

January :- unit I:- object oriented Methodology

Feb. :-Unit II:-constructure and Destructor,operator Overloading

March :- Unit III :-Dynamic object,Inheritance

April :- Unit-IV Virtual Function , Exceptional Handling


Signature'

2023/10/16 11:49

NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN 2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of the Teacher:-Prof.Madhuri R.Meshram

Dept:-Computer Science

Subject/Paper :OPERATING SYSTEM(PAPER-II)

Class:-B.Sc II(Semester III)

Month

Topics To Be Covered

June :-

July :- Unit I:-Structure of OS.,process management.

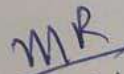
August :- Unit I:-CPU Sceduling ,
Unit-II Performance comparison.

September :- unit-II:Deadlock and starvation,unit -III :memory management

October :- unit-IV:-I/O management,File management,protection mechanism
Diwali Vacation

November :-

December :-


Signature

2023/10/16 11:50

NABIRA MAHAVIDYALAYA, KATOL**TEACHING PLAN 2022-2023****To be Submitted to the Teacher Appraisal Committee**

Name of the Teacher:-Prof.Madhuri R.Meshram

Dept:-Computer Science

Subject/Paper :Linux OS(paper-II)

Class:-B.Sc. II(Semester IV)

Month**Topics To Be Covered**

January :- unit I:- shell and commands

Feb. :-Unit II:-Editor,Hooking up hardware devices,system,printing files
Unit-III:-sharing files with others users,working with processes,

March :- Unit III :-working with processes.

April :- Unit-IV :-managing disk space.


Signature

NABIRA MAHAVIDYALAYA,KATOL

TEACHING PLAN 2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of the Teacher:-Prof.Madhuri R.Meshram

Dept:-Computer Science

Subject/Paper :VISUAL BASIC PROGRAMMING(PAPER-I)

Class:-B.Sc III(Semester V)

Month

Topics To Be Covered

June

:-

July

:- Unit I:-working withVB component,working with forms

August

:- Unit I:-Basic programming fundamentals.

Unit-II Arrays.

September :- Unit-II:Procedure,Function ,Module

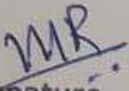
Unit -III :menus,Database Handling ,using ADO.

October

:- Unit-IV-Using ADO Data Control,Handling Errors.

November :-

December :-


Signature

NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN 2022-2023

To be Submitted to the Teacher Appraisal Committee

Name of the Teacher:-Prof.Madhuri R.Meshram

Dept:-Computer Science

Subject/Paper :COMPILER CONSTRUCTION (PAPER-I)

Class:-B.Sc. III(Semester VI)

Month

Topics To Be Covered

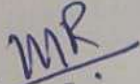
January :- unit I:- compilar and translators,Structure of a compiler.

Feb. :-Unit II:-High level programming language,The lexical and synatactic structure of a language

March :- Unit III :-The role of Lexical analyzer.

April :- Unit-III :-CFG.

Unit-IV: Parsers,code optimization,code Generation.


Signature

Nabira Mahavidyalaya, Katol

Profoma of Teaching Plan -2023-2024

To be Submitted to the Teacher Appraisal Committee

Name of the Teacher:-S.R.Gakhare

Dept:-Computer Science

Subject/Paper I:Fundamentals of Information Technology

Class:-B.Sc I(Semester I)

Month

Topics To Be Covered

June :-

July :-

Unit I :- Basic Components of Digital Computers,CPU, Number Systems

Language Evolution.:-

August :-

Translators.

Unit II :-Memory , Storage Devices.

September:-

Unit III :-Input Devices, Output Devices.

October :-

Unit IV:-Network , Topologies, Types Of Network, Repeaters, Bridge,

Routers, Brouter and Gateway. Modem for communication

Between pc, Network Protocols, Architecture.

November :-

Diwali Vacation

Nabira Mahavidyalaya, Katol

Profoma of Teaching Plan -2023-2024

To be Submitted to the Teacher Appraisal Committee

Name of the Teacher:-S.R.Gakhare

Dept:-Computer Science

Subject/Paper I: System Analysis And Design

Class:-B.Sc I(Semester II)

Month

Topics To Be Covered

December :-	Unit I :- Introduction, Feasibility Study and Analysis, Data Collection.
January :-	Unit II :- Structured tools and techniques of Data analysis, System Design, Codes.
Feb :-	Unit III :- Implementation, Testing, Conversion., System Evaluation.
March :-	Unit IV :- Scheduling Reliability and Quality Management. Software Reuse..

Nabira Mahavidyalaya, Katol

Profoma of Teaching Plan -2023-2024

To be Submitted to the Teacher Appraisal Committee

Name of the Teacher:-S.R.Gakhare

Dept:-Computer Science

Subject/Paper I:-Data Structures

Class:-B.Sc II(Semester III)

Month

Topics To Be Covered

June	:-	-----
July	:-	Unit I :- Linked List.
August	:-	Unit II:-Stacks.
September:-		Unit III :-Queue, Sorting And Searching.
October	:-	Unit IV:- Trees ,Graphs
November	:-	Diwali Vacation

Nabira Mahavidyalaya, Katol

Profoma of Teaching Plan -2023-2024

To be Submitted to the Teacher Appraisal Committee

Name of the Teacher:-S.R.Gakhare

Dept:-Computer Science

Subject/Paper I:JAVA PROGRAMMING

Class:-B.Sci I(Semester IV)

Month

Topics To Be Covered

December :-	Unit I :- Introduction to Java, Java Programs, Variables, Operators, Tokens.
January :-	Unit II :- Creating a Class & Subclass, Data members, Method, Access Specifier & Modifiers, Overloading, Java class Library, Decision Making & oops, Array String , Inheritance, Interfaces.
Feb :-	Unit III :- Packages, Import Statement , Applets, Threads, Exceptions & Errors.
March :-	Unit IV :- Event, Graphic Class, Streams, AWT Applications, Components & Control, Menus, Image, Layouts, Container.

Nabira Mahavidyalaya, Katol

Profoma of Teaching Plan -2023-2024

To be Submitted to the Teacher Appraisal Committee

Name of the Teacher:-S.R.Gakhare

Dept:-Computer Science

Subject/Paper I:-Data Base Management System

Class:-B.Sc Final(SemesterV)

Month

Topics To Be Covered

June	:-	-----
July	:-	Unit II :- E-R Models.
August	:-	Unit III:-Relation Model.
September:-		Unit I :-DBMS
October	:-	Unit IV:- Function Dependency.
November :-		Diwali Vacation

Nabira Mahavidyalaya, Katol

Profoma of Teaching Plan -2023-2024

To be Submitted to the Teacher Appraisal Committee

Name of the Teacher:-S.R.Gakhare

Dept:-Computer Science

Subject/Paper II: SQL And PL/SQL

Class:-B.Sc III(Semester VI)

Month

Topics To Be Covered

December :-	Unit I :- Codd's Rule ,DML Statement, DCL and TCL Statement.
January :-	Unit II :- Views, Types of Views, PL And SQL Programming.
Feb :-	Unit III :- Exception Handling ,Cursor, Explicit Cursors and Implicit Cursors, Procedure and Its Types of Procedure.
March :-	Unit IV :- Function, Triggers, Creating BEFORE and AFTER Triggers, Enabling , abd Disabling Triggers.

DEPARTMENT OF POLITICAL SCIENCE

NABIRA MAHAVIDYALAYA, KATOL

SESSION 2022-2023

Month wise Action Plan

- August - Guest lecture on contemporary political issue.
- September - ~~Students Workshop.~~ ✓ *Ellosa Meet*
- October - Debate Competition.
- November - ✓ Constitution Day program.
- December - Students seminar on Model Parliament.
- January - ✓ National Voters Day Program.
- February - Webinar/ Guest Lecture .
- March - Guidance About Examination
- April - Unit Test & Assignment.

RS
04/07/22

Head

Department of Political Science

NABIRA MAHAVIDYALAYA, KATOL DIST- NAGPUR
Time Table for the Faculty of Humanities 2022-23

Day	Time & Class	1		2		3		4		5		6	
		8.00 to 8.48	8.48 to 9.36	9.36 to 9.40	9.40 to 10.28	10.28 to 11.16	11.16 to 11.20	11.20 to 12.08	12.08 to 12.56				
MON	B.A.I - A	MLT(RRP) ELT (PVS)	HIS (RRD)		ENG (MDL)		POL (HYKY) / H.ECO (DDG)		POL (HYKY) / H.ECO (DDG)		MAR (BSK)		H-ECO Pract
	B.A.I - B	MAR (BSK)	HIS (RRD)		POL (HYKY)		ENG(TUT)		ENG(MDL)		ENG(MDL)		ELT (PVS)
	B.A.II - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)ELT (PVS)		MAR (BSK)		HIS (RRD)		HIS (RRD)		-
	B.A.II - B	ECO/PHI (BPW)	POL (HYKY)		MLT(RRP)		ENG (YPB)		HIS (RRD)		HIS (RRD)		-
	B.A.III - A	ENG(TUT)	ECO/PHI (BPW)		MAR (BSK)		MLT(RRP) ELT (SKN)		ENG (YPB)		POL (HYKY)/H.ECO (DDG)		ECO/PHI (BPW)
TUE	B.A.I - A	MLT(RRP) ELT (PVS)	HIS (RRD)		ENG(TUT)		ENG(MDL)		POL (HYKY)		ENG (MDL)		ECO/PHI (BPW)
	B.A.I - B	MAR (BSK)	HIS (RRD)		POL (HYKY)/H.ECO (DDG)		MAR (BSK)		ENG (MDL)		ENG (MDL)		ECO/PHI (BPW)
	B.A.II - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP) ELT (PVS)		POL (HYKY)		HIS (RRD)		HIS (RRD)		-
	B.A.II - B	ECO/PHI (BPW)	ENG(TUT)		MLT(RRP)		H.ECO (DDG)		H.ECO (DDG)		HIS (RRD)		-
	B.A.III - A	ECO/PHI (BPW)	POL (HYKY)		MLT(RRP)		ENG (YPB)		HIS (RRD)		HIS (RRD)		-
WED	B.A.I - A	HIS (RRD)	MAR (BSK)		ECO/PHI (BPW)		MLT(RRP) ELT (SKN)		ENG (PVS)		ENG (PVS)		-
	B.A.I - B	HIS (RRD)	MAR(RRP)		ECO/PHI (BPW)		ENG (PKT)		MAR(RRP)		MAR(RRP)		-
	B.A.II - A	MLT(RRP) ELT (PVS)	HIS (RRD)		POL (HYKY) / H.ECO (DDG)		MAR (BSK)		POL (HYKY)		ECO/PHI (BPW)		-
	B.A.II - B	MAR (BSK)	HIS (RRD)		ENG (MDL)		POL (HYKY)		HIS (RRD)		ECO/PHI (BPW)		-
	B.A.III - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP) ELT (PVS)		HIS (RRD)		HIS (RRD)		POL (HYKY)/H.ECO (DDG)		H-ECO Pract
THU	B.A.I - A	HIS (RRD)	ECO/PHI (BPW)		MAR (BSK)		MLT(RRP) ELT (SKN)		MAR (RRP)		MAR (BSK)		ECO/PHI (BPW)
	B.A.I - B	HIS (RRD)	ECO/PHI (BPW)		ENG(PKT)		MLT(RRP)		MAR (RRP)		MAR (BSK)		ECO/PHI (BPW)
	B.A.II - A	MLT(RRP) ELT (PVS)	HIS (RRD)		POL (HYKY) / H.ECO (DDG)		ECO/PHI (BPW)		H-ECO Practical		H-ECO Practical		-
	B.A.II - B	POL (HYKY)	HIS (RRD)		ENG(MDL)		HIS (RRD)		MAR (BSK)		MAR (BSK)		-
	B.A.III - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP) ELT (PVS)		HIS (RRD)		HIS (RRD)		H-ECO Practical		-
FRI	B.A.I - A	HIS (RRD)	ECO/PHI (BPW)		HIS (RRD)		MLT (RRP) ELT (SKN)		POL (HYKY) / H.ECO (DDG)		POL (HYKY) / H.ECO (DDG)		H-ECO Pract
	B.A.I - B	HIS (RRD)	ECO/PHI (BPW)		HIS (RRD)		ENG (TUT)		POL (HYKY) / H.ECO (DDG)		POL (HYKY) / H.ECO (DDG)		ELT (PVS)
	B.A.II - A	ECO/PHI (BPW)	HIS (RRD)		ECO/PHI (BPW)		ENG (MDL)		ENG (TUT)		ENG (TUT)		-
	B.A.II - B	MAR (BSK)	POL (HYKY) / H.ECO (DDG)		HIS (RRD)		MAR (BSK)		MAR (BSK)		ECO/PHI (BPW)		-
	B.A.III - A	HIS (RRD)	ENG (PVS)		POL (HYKY) / H.ECO (DDG)		ENG (TUT)		ENG (PVS)		ENG (PVS)		-
SAT	B.A.I - A	HIS (RRD)	MAR(RRP)		POL (HYKY) / H.ECO (DDG)		ECO/PHI (BPW)		-		-		-
	B.A.I - B	HIS (RRD)	MAR(RRP)		POL (HYKY) / H.ECO (DDG)		ECO/PHI (BPW)		-		-		-
	B.A.II - A	HIS (RRD)	MAR(RRP)		POL (HYKY) / H.ECO (DDG)		ECO/PHI (BPW)		-		-		-
	B.A.II - B	HIS (RRD)	MAR(RRP)		POL (HYKY) / H.ECO (DDG)		ECO/PHI (BPW)		-		-		-
	B.A.III - A	HIS (RRD)	MAR(RRP)		POL (HYKY) / H.ECO (DDG)		ECO/PHI (BPW)		-		-		-

Coordinator
Time table Committee

Principal
Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN - 2022-2023
 To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : H. Y. Kinkar Dept : Pol. Sci
 Subject/Paper : PT & WPT Class : B. A 2nd Sem

Months	Topic to be covered
August	: ① Political theory ② state
September	: ② power ④ Authority
	: ⑤ Liberty ⑥ Equality
October	: ⑦ Right ⑧ Justice.
November	: Winter vacation 1/11/23 to 30/11/23
December	: plato - Ideal state - philosopher king
January	: - theory of Justice - theory of communism
February	: Aristotle - concepts of liberal state classification of state
March	: John Stuart Mill - Liberty, Democracy property, Government.
April	: Kaol Marx - Dialectical materialism class war
May	: Thoughts on states summer vacation.
June	:


 Signature
Prof. Harishkumar Y. Kinkar
 H.O.D. Dept. of Political Science
 Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN - 2022-2023
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : H. Y. Kinkar
Subject/Paper : IGP & SGP

Dept : pol. sci
Class : B.A III & IV sem

Months	Topic to be covered
August	: ① preamble ② fundamental rights
September	: ③ Directive principles of state policy ④ president
October	: ⑤ parliament ⑥ prime minister
November	: 1/11/23 to 30/11/23 winter vacation
December	: ⑦ supreme court ⑧ major issues in Indian politics
January	: ① centre-state relations. ② Governor
February	: ③ Legislative Assembly ④ Legislative Council
March	: ⑤ chief minister ⑥ High Court
April	: ⑦ Panchayati Raj ⑧ Right to Information Act
May	: summer vacation
June	:


Signature

Prof. Harishkumar Y. Kinkar
H.O.D. Deptt. of Political Science
Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL
 PROFORMA OF TEACHING PLAN - 2020-2023
 To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : H. Y. Kinkar
 Subject/Paper : CP & IR

Dept : Poli Sci.
 Class : B.A V of VI sem

Months	Topic to be covered
August	① comparative politics UK/USA ② feature of constitution UK/USA
September	③ political culture UK/USA ④ Executive UK/USA
October	⑤ political parties UK/USA ⑥ Legislature UK/USA
November	Winter vacation 1/11/23 to 30/11/23
December	⑦ pressure group ⑧ Judiciary
January	① International Relations
February	② Theories of IR ③ National power
March	④ foreign policy ⑤ Balance of power
April	⑥ collective security ⑦ Global terrorism
May	⑧ Human Rights Summer vacation.
June	


 Signature

Prof. Manoharwar Y. Kinkar
 O.D. Dept. of Political Science
 Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL DIST.-NAGPUR.
Time Table for the Faculty of Humanities 2022-23

Day	Time & Class	1		2		3		4		5		6	
		8.00 to 8.48	8.48 to 9.36	9.36 to 9.40	9.40 to 9.45	9.45 to 10.28	10.28 to 11.16	11.16 to 11.20	11.20 to 11.08	11.08 to 12.50			
MON	B.A.I - A	MLT(RRP) ELT (PVS)	HIS (RRD)		ENG (MIDL)		POL (HYK)		POL (HYK)		MAR (BSK)		H-ECO, Pract
	B.A.I - B	MAR (BSK)	HIS (RRD)		POL (HYK)		MLT(RRP)ELT (PVS)		ENG(TUT)		ENG(MIDL)		ELT (PVS)
	B.A.II - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MAR (BSK)		MAR (BSK)		HIS (RRD)		
TUE	B.A.II - B	ECO/PHI (BPW)	ENG (YPB)		MAR (BSK)		MLT(RRP) ELT (SKN)		MLT(RRP) ELT (SKN)		HIS (RRD)		
	B.A.II - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		ENG(TUT)		ENG(TUT)		HIS (RRD)		
	B.A.II - B	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		POL (HYK)/ HECO (DDG)		POL (HYK)/ HECO (DDG)		HIS (RRD)		
WED	B.A.II - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MLT(RRP) ELT (PVS)		MLT(RRP) ELT (SKN)		ENG (PVS)		
	B.A.II - B	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MLT(RRP)		ENG (PKT)		MAR(RRP)		
	B.A.II - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MLT(RRP) ELT (PVS)		POL (HYK)		ECO/PHI (BPW)		
THU	B.A.II - B	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MAR (BSK)		MAR (BSK)		ECO/PHI (BPW)		
	B.A.II - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MLT(RRP)		POL (HYK)		POL (HYK)/ H ECO (DDG)		
	B.A.II - B	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MAR (BSK)		MAR (BSK)		ENG (PVS)		
FRI	B.A.II - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MLT(RRP) ELT (SKN)		MLT(RRP)		MAR (BSK)		
	B.A.II - B	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MLT(RRP)		MLT(RRP)		MAR (BSK)		
	B.A.II - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MLT(RRP) ELT (PVS)		MLT(RRP) ELT (SKN)		ENG (PVS)		
SAT	B.A.II - B	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MLT(RRP)		MLT(RRP)		ENG (PVS)		
	B.A.II - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MLT(RRP)		MLT(RRP)		ENG (PVS)		
	B.A.II - B	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		MLT(RRP)		MLT(RRP)		ENG (PVS)		

Coordinator
Time table Committee

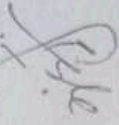
DR. P. V. SALAMME
 Head of English Department
 Nabira Mahavidyalaya, Katol



Principal
Nabira Mahavidyalaya, Katol


NABIRA MAHAVIDYALAYA KATOL
(M.A. ENGLISH - I & III SEMESTER)
TIME TABLE 2022 - 2023
M.A PART - I & II

DAY	Class	1	2	BREAK	3	4	BREAK	5
MON.	M.A.I	8.00 TO 8.48	8.48 TO 9.36	9.36 TO 9.40	9.40 TO 10.28	10.28 TO 11.16	11.16 to 11.20	11.20 to 12.08
	M.A.II	(MDL)	(PVS)		(YPB)	(MDL)		(JGA)
TUE.	M.A.I	(MDL)	(PVS)	R E L E S S I O N	(YPB)		R E L E S S I O N	(SKN)
	M.A.II	(JGA)	(PVS)		(YPB)	(PVS)		(SKN)
WED.	M.A.I	(MDL)	(PVS)	R E L E S S I O N	(YPB)		R E L E S S I O N	(SKN)
	M.A.II					(YPB)		(SKN)
THU.	M.A.I	(YPB)		R E L E S S I O N		(YPB)	R E L E S S I O N	(JGA)
	M.A.II	(MDL)	(PVS)		(YPB)	(MDL)		(SKN)
FRI.	M.A.I		(PVS)	R E L E S S I O N	(JGA)		R E L E S S I O N	(SKN)
	M.A.II	(MDL)			(YPB)			(SKN)
SAT	M.A.I			R E L E S S I O N	(JGA)		R E L E S S I O N	(SKN)
	M.A.II	(YPB)	(MDL)		(YPB)			(JGA)

Coordinator


Dr. P. V. SALAME
 Assistant Professor & Head
 Dept. of English, N.M.V. KATOL



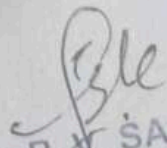
Principal


Action Plan - 2022-23

Department of English

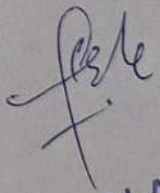
- ① August 2022 - Guest Lecture for literature students.
- ② September 2022 - Intercollegiate poster competition.
- ③ October 2022 - Poetry Recitation programme
creative writing workshop.
- ④ November 2022 - Intercollegiate students
Seminar.
- ⑤ December 2022 - Guest Lecture for literature
students.
- ⑥ January 2023 - Essay writing competition.
- ⑦ February 2023 - Get together of all classes
of literature students.
- ⑧ ~~Guidance~~
March 2023 - Guidance about examination
to all students.

Date: 30-06-2022


Dr. P. V. SALAME
Assistant Professor & Head
Dept. of English, N.M.V. KATOL
Dr. P. V. Salame

Action Plan 2022-23
Department of English [M.A.]

- August - Guest Lecture
- September - Class Seminar
- October - Unit Test
- November - Inter-Collegiate student seminar
- December - Guest Lecture
- January - Creative Writing session
- February - Get Together
- March - Guidance about Examination.


Dr. P. V. SALAM
Assistant Professor & H
Dept. of English, N.M.V. K.

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan- M.A. Part I - Sem I The English Novel - I

Semester
I

Month	Activity/Teaching Plan
Unit I - August	<ul style="list-style-type: none"> • Background Topics. • Text for Detail study - Henry Fielding Tom Jones
September	Unit - II <ul style="list-style-type: none"> • Background Topics. • Text for Detail Study - Mary Shelley - Frankenstein
October	Unit - III <ul style="list-style-type: none"> • Background Topics • Text for Detail Study - Jane Austen - Mansfield Park
November	Unit - IV <ul style="list-style-type: none"> • Background Topics • Text for Detail study - Walter Scott - Ivanhoe
December	Unit - I <ul style="list-style-type: none"> • Background Topics • Text for Detail study - Emily Bronte - Wuthering Heights
January	Unit - II <ul style="list-style-type: none"> • Background Topics • Text for Detail study - Thomas Hardy : Far from madding Crowd
February	<ul style="list-style-type: none"> • Unit III • Background Topics • Text for Detail study - Henry James - The Portrait of a Lady
March	Unit IV <ul style="list-style-type: none"> • Background Topics • Text for Detail study. William Golding Lord of Flies.
April	Exam.

Semester
II

Dr. P. V. SALAME
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Dept. of English, N.M.V. KATOL

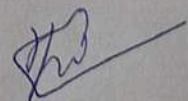
Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan- M.A-I (English) Paper-II (2022-23)

Month	Activity/Teaching Plan
I - Semester August	<ul style="list-style-type: none"> • Background topics. • Text for detail study 1) Christopher Marlowe: Doctor Faustus
September	<ul style="list-style-type: none"> • Background topics. • Detail study 1) Shakespeare: Othello
October	<ul style="list-style-type: none"> • Background topics. • Detail study; 1) Shakespeare: Antony and Cleopatra
November	<ul style="list-style-type: none"> • Background topics. • Detail study 1) John Webster: The White Devil.
II Semester December	<ul style="list-style-type: none"> • Background topics. • Text for detail study 1) G.B. Shaw: The Apple Cart.
January	<ul style="list-style-type: none"> • Background topics. • Detail study; 1) John Osborne: Look Back in Anger
February	<ul style="list-style-type: none"> • Background topics. • Detail study; 1) T.S. Eliot: The Family Reunion
March	<ul style="list-style-type: none"> • Background topics. • Detail study; 1) Samuel Beckett: Waiting for Godot
April	Exam.

Dr. P. V. SALAME
Assistant Professor & Head
Dept. of English, N.M.V. KATOL



Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan- M.A. I (English) Paper - III Indian Writing in English-I

Month	Activity/Teaching Plan
August	Unit - I • Background study Topics • Text for detail study: 1) Toru Dutt 2) Rabindranath Tagore, 3) Sarojini Naidu
September	Unit - II • Background Topics • Text for detail study → Mulk Raj Anand - Two Leaves and a Bud
October	Unit - III • Background Topics • Detail study → R.K. Narayan; The Financial Expert
November	Unit - IV • Background Study Topics. • Bhabani Bhattacharyer: Music for Mohini.
December	Unit - I • Background Study Topics. • Text of Detail study. Nissim Ezekiel, Kamala Das A.K. Ramanijan, Arun Kolatkar
January	Unit - II • Background study Topics. • Detail study: Anita Desai: Clear Light of the Day.
February	Unit - III • Background Topics. • Detail Study: Arun Joshi: A strange Case of Billy Biswas.
March	Unit - IV • Background Topics • Detail study: Mahesh Dattani: Beavely Fought the Queen.
April	Exam.

Semester I

Semester II
Indian Writing in English-II

Dr. P. V. SALAME
Assistant Professor & Head
Dept. of English, N.M.V. KATOL

[Dr. Y.P. Barbudelhe]

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan- M.A-I Paper-I, (2022-23)

I -
Semester

Month	Activity/Teaching Plan
August	<ul style="list-style-type: none"> • Background topics. • Text for detail study: 1) Chaucer: The Prologue to the Canterbury Tales.
September	<ul style="list-style-type: none"> • Background study topics. • Text for detail study: 1) Shakespearean Sonnets 2) Spenserian Sonnets.
October	<ul style="list-style-type: none"> • Background Study topics. • Text for detail study: 1) Poems by John Donne 2) Poems by Andrew Marvell.
November	<ul style="list-style-type: none"> • Background topics. • Text for detail study: 1) John Milton: - The Paradise Lost.
December	<ul style="list-style-type: none"> • Background Study topics: • Text for detail study: John Dryden: Absalom and Achitophel
January	<ul style="list-style-type: none"> • Background topics. • Detail study: Alexander Pope: The Rape of the Lock.
February	<ul style="list-style-type: none"> • Background topics. • Text for detail study: Jonathan Swift: The Battle of the Books.
March	<ul style="list-style-type: none"> • Background topics. • Detail study: 1) Thomas Gray 2) William Blake
April	Exam.

II
Semester

Dr. P. V. SALAME
Assistant Professor & Head
Dept. of English, N.M.V. KATOL

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan- BA-IInd 2022-23 [Y.P. Barbuddhe]

Month	Activity/Teaching Plan
August	<u>B.A. IIIrd Semester</u> Prose:- The Lottery Ticket Poetry:- ① Yussuf ② Lord Ullin's Daughter
September	Prose:- The Three Questions Poetry:- To India Personalities:- ① G. D. Naidu ② Aki Morita
October	Prose:- Water - The Elixir of Life. Poetry:- When we two parted Grammar & Composition:- ① Precise writing ② Voice
November	Prose:- With the Photographer Personalities:- Mallika Sinivasan Grammar & Composition:- Expansion of an Idea as a Proverb
December	— Exams —
January	<u>B.A. IVth Semester</u> Prose:- The Last Salvation Poetry:- ① Say not the Struggle Nought Availeth ② The Tiger and the Deer.
February	Prose:- ① Forgetting ② The Diamond Necklace Poetry:- ① Polonius to Laertes ② Nature Personalities:- ① Vijay Bhaskar ② Priya Paul
March	Prose:- Lawley Road Personalities:- Steve Jobs Grammar and Composition:- ① Story Writing ② Narration
April	Grammar and Composition:- Writing Email — Exams —



Dr. P. V. SALAME
Assistant Professor & Head
Dept. of English, N.M.V. KATOL

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan- B.Sc I- 2022-23 [Y.P. Barbuddhe]

Month	Activity/Teaching Plan
August	<u>B.Sc-Ist Semester</u> Prose:- My Struggle for an Education Poetry:- Ulysses
September	Prose:- Florence Nightingale Poetry:- Yossouf
October	Prose:- The Birth of Khadi Poetry:- If - Rudyard Kipling
November	Prose:- Go, Kiss the World Comprehension and Writing Skills.
December	— Exams —
January	<u>B.Sc-IInd Semester</u> Prose:- Grassroot Innovation & Social Enterprise Poetry:- Richard Cory
February	Prose:- ① Two Gentleman of Verona ② The Verger Poetry:- Allow Sanity a little space
March	Prose:- Synthesis of Science & Spirituality Poetry:- Refugee Blues
April	Vocabulary Building — Exams —



Dr. P. V. SALAME
Assistant Professor & Head
Department of English & Hindi
Nabira Mahavidyalaya, Katol

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan- B.Com II 2022-23 (Manish D. Lael)

Month	Activity/Teaching Plan
August	Sem III Prose - ① Chicago speeches ② What teenagers need to know about Cybersecurity Poetry - The Tiger & the Deer Application & Types of Sentences
September	Prose - ① Value in Life ② Work Brings Solace Poetry - Leisure Skills - Etiquette & Manners
October	Prose - ① Too Dear! ② The Pleasures of Ignorance Poetry - The Dream within the Dream Skills - Writing Blogs & Tenses.
November	————— Diwali Vacations —————
December	————— Exams —————
January	Sem IV Prose - ① The Gift ② India, what can it Teach us? Poetry - The Ballad of Father Calligan Skills - Summary writing
February	Prose - ① Why we Travel ② The Doll's House Poetry - God's Grandeur Skills - Voice, writing Dialogues
March	Prose - ① The Gloke of Gold ② The Beggar Poetry - The soul's Prayer Skills - Direct/Indirect speech, Comprehension
April	



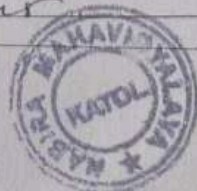
P. V. Salame
Dr. P. V. SALAME
Assistant Professor & Head
Dept. of English, N.M.V. KATOL

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan- B.A.1 - 2022-23 [Manish Lad]

Month	Activity/Teaching Plan
	<u>B.A. I semester</u>
August	Prose - What we must learn from the west Poetry - Bazzars of Hyderabad by Karigini Nardua
September	Prose - ① Mary Kom : Interview ② The Naive friendr Poetry - Kali, the Mother
October	Grammar & Writing skills - Prose - Fur - Hector Hugh Munro Poetry - ① Don't Quit ② A walk by moonlight - Henry Deroets
November	Language study & writing skills. - Diwali Vacations -
December	- Exams -
	<u>B.A. II semester</u>
January	Prose - When Telegrams were bad - The first woman jagan shanti Tigga Poetry - The school Boy
February	- Grammar & writing skills Prose - The Antidote Poetry - whom thou dost worship - sympathy
March	- Grammar & communication skills Prose - The Conjuror's Revenge Poetry - Lord Illin's Daughter
April	Grammar & Practise - Exams -



Dr. P. V. SALAME
Assistant Professor & Head
Dept. of English, N.M.V. KATOL

Department of English

Teaching Plan- B.A. (ELT), By P.V. Salame

Month	Activity/Teaching Plan
August	Poetry - The Chimney Sweeper, The Solitary Reaper, His Bookes, The Last Rose of Summer, I would I... Ode to the West Wind, Ode on a Grecian urn
September	Prose - Dream Children, A Bachelor's Complaint, On Reading old Books, On the Reading of Immortality in youth.
October	Novel - Pride and Prejudice Literary forms - Literary Terms.
November	
December	Poetry - Ulysses, The Lost Leader, Dover Beach, Up-Hill, Pied Beauty, Nightingale, If.
January	Prose - El-Dorado, Walking Tours, Child's Play, An Apology. Novel - David Copperfield.
February	Literary forms Literary Terms
March	Revision
April	

III Sem

IV Sem



Dr. P. V. SALAME
Assistant Professor & Head
Dept. of English, N.M.V. KATOL

P. V. Salame

V sem

Month	Activity/Teaching Plan
August	Prose - The Mother of a Traitor Speeches at the World's Parliament of Religions Whitewashing the Fence, Appro SRD
September	Personalities - Dhirubhai Ambani Kalpana Chawala E.M. Forster
October	Poetry - Dirge, The Mountain and the Squirrel Annabel Lee, A Lament Grammar - Essay writing, Tenses, Inventory Reports
November	
December	Prose - After Twenty years, The Cold Frame The Bell, Work Brings Solace
January	Personalities - Rahul Bajaj, G.R. Gopinath Sabar Bhatia Poetry - Bangle Sellers, The Soldier, On His Blindness, Invictus
February	Grammar - Punctuation, One word substitution Newspaper Reports, Drafting Advertisement
March	Revision of some difficult parts on.
April	Exam.

VI sem



Dr. P. V. SALAME
Assistant Professor & Head
Dept. of English, N.M.V. KATOL

PSle

Nabira Mahavidyalaya, Katol

[2022-23]

Department of English

Teaching Plan- B.A. I (ELT), Dr P.V. Salame

Month	Activity/Teaching Plan
August	Background Reading - Historical, social and Cultural Background
September	Literary Terms - Elizabethan Lyric, sonnet, Senecan R. Tragedy, Comedy of Humours, Pastoral Allegory, Madrigal, Aphoristic Essay
October	Poems - Loving in Truth, Since There is no Help, shall I compare...., To Celra, To Althea, I Poithee... Prose: of Studies, of Travel, of Marriage, of Parents....
November	Drama - Romeo and Juliet.
December	Background - Restoration Age, Collapse of Drama, The Cavalier Poets, Puritanism, Rise of Satire. Literary Terms - Iambic Pentameter, conceit, Allegory,
January	Blank Verse, Heroic Couplet, comedy of Manners, Paradox. Poetry - A Validiction..., The Pully, To His Coy Mistress, On His Blindness, The Author To Her Book, To the Virgins.
February	Novel - Gulliver's Travels, Drama - Macbeth
March	Unit Tests.
April	Exam.

I sem

II sem



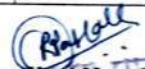
Dr. P. V. SALAME
Assistant Professor & Head
Dept. of English, N.M.V. KATOL

File

Nabira Mahavidyalaya, Katol, Dist. Nagpur

Time Table for the Department of Marathi 2022-23

Time Day → ↓	1 8:00 - 8:48	2 8:48 - 9:36	3 9:40 - 10:28	4 10:28 - 11:16	5 11:20 - 12:08	6 12:108 - 12:56
MON	B.A I MB MLT RRP		BA II A+B MLT RRP.	BA III A+B MLT RRP		
	1		B.A.III(A)-Mar. B.S.K.	B.A.II(A)-Mar. B.S.K.	B.A.I(A)-Mar. B.S.K.	B.A.I(B)-Marathi B.S.K.
TUE	B.Com-I - Mar. V.R.V.					B.Com II Mar. V.R.V.
	BA I A+B MLT RRP.		B.A II A+B MLT RRP.	BA III A+B MLT RRP		B.Com II Mar. V.R.V.
	B.Com.I - Mar. V.R.V.					
WED	B.A.III(A)-Mar. B.S.K.			B.A.I(A)-Mar. B.S.K.	B.A.I(B) Mar. B.S.K.	
	B.A I A+B MLT RRP	B.A.III B Mar RRP	BA II A+B MLT RRP.	B.A.III A+B MLT RRP	BA III B Mar RRP.	
	B.A.III(A) Mar. B.S.K.			B.A.I(A)-Mar. B.S.K.		
THU	B.Com-I Mar. V.R.V.					
	BA I A+B MLT RRP.		BA II A+B MLT RRP	BA III A+B MLT RRP		
	B.A.II(A)-Mar. B.S.K.	B.A.II(B)-Mar. B.S.K.	B.A.III(A) Mar. B.S.K.	B.A.I(B)-Mar. B.S.K.		
FRI	B.Com-II Mar. V.R.V.					
	BA I A+B MLT RRP.		BA II A+B MLT RRP.	BA III A+B MLT RRP.		
	B.S.E I	B.A.II(A) Mar. B.S.K.			B.A.II(B)-Mar. B.S.K.	
SAT	B.Com-II Mar. V.R.V.					B.Com I. Mar. V.R.V.
	B.S.C I R.R.P.	BA III B Mar RRP.				
	B.A.II(A)-Mar. B.S.K.	B.A.II(B)-Mar. B.S.K.		B.A.II(B)-Mar. B.S.K.	B.A.I(A)-Mar. B.S.K.	B.A.II(B)-Mar. B.S.K.


 डॉ. आ. म. काळे
 Head Marathi
 N. M. V. Kato
 नवीरा महाविद्यालय, काटोल

वग

कृती आराखडा (ACTION PLAN)

मराठी विभाग

शैक्षणिक सत्र : 2022-2023

अ.क्र	महिना	कार्यक्रमाचे विवरण
1	ऑगस्ट 2022	अतिथी व्याख्यान
2	सप्टेंबर 2022	गटचर्चा/चर्चासत्राचे आयोजन
3	आक्टोबर 2022	निबंध स्पर्धेचे आयोजन
4	जानेवारी 2023	मराठी भाषा संवर्धन पंधरवड्याचे आयोजन
5	फेब्रुवारी 2023	कुसुमाग्रज जयंती/ मराठी भाषा गौरव दिनाचे आयोजन
6	मार्च 2023	अभ्यासक्रमाच्या अनुषंगाने नाट्यदर्शनाचे आयोजन

दिनांक - 30.06.2022




मराठी विभाग प्रमुख
नबीरा महाविद्यालय काटोल

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN - 2020-2022 - 2023
 To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Dr. R. R. Pathak
 Subject/Paper : MLT

Dept : Marathi
 Class : B.A I, II, III

Months	Topic to be covered
August : B.A I A+B B.A II A+B B.A III	आत्मचरित्र स्वरूप काव्याची संकल्पना स्वरूप कादंबरी स्वरूप
September : B.A I A+B B.A II A+B B.A III	आत्मचरित्र संकल्पना माझी जन्मरेप साहेतरी मराठी कविता स्वरूप कादंबरीचा इतिहास, पूजाभात्रणी लेख
October : B.A I A+B B.A II A+B B.A III	माझी जन्मरेप आत्मचरित्र पार्व्वभूमी साहेतरी मराठी कविता पूजाभात्रणी लेख
November : B.A I A+B B.A II A+B B.A III	माझी जन्मरेप / प्रतिभासाधक साहेतरी मराठी कविता अग्निवर्क काव्यप्रकाश पूजाभात्रणी लेख, दलिन साहित्य पुढे आडालन
December : B.A I A+B B.A II A+B B.A III	माझी जन्मरेप प्रतिभासाधक अग्निवर्क काव्यप्रकाश दलिन साहित्य पुढे आडालन
January : B.A I A+B B.A II A+B B.A III	प्रतिभासाधक / नाटक साहित्य साहेतरी मराठी कथा आत्मचरित्र स्वरूप कल्पना स्वरूप
February : B.A I A+B B.A II A+B B.A III	नाटक पुढे नाट्यमय प्रकाश/नटसम्राट साहेतरी मराठी कथा पुढे होता कादंबरी कथा
March : B.A I A+B B.A II A+B B.A III	नटसम्राट प्रास्ताविक, कथाकथ साहेतरी मराठी कथा पुढे होता कादंबरी मराठी वाङ्मय इतिहास
April : B.A I A+B B.A II A+B B.A III	नटसम्राट / प्रतिभासाधक अग्निवर्क काव्यप्रकाश मराठी वाङ्मय इतिहास
May :	
June :	


Signature

डॉ. आर. आर. पठिक
 सहयोगी प्राध्यापक व नवनी विभाग प्रमुख
 नवीरा महाविद्यालय, काटोल

Nabira Mahavidyalaya, Katol
Proforma of Teaching Plan – 2022-2023
Name of the Teacher :- **Dr. Bharat S. Kadbe**

Dept : **Marathi**

Class :- B.A. Ist, IInd, IIIrd Year

Subject -- (०१) साहित्यरंग भाग --- ०१
(०२) साहित्यरंग भाग --- ०२
(०३) साहित्यरंग भाग --- ०३

Semester Ist, IIIrd, Vth (Compulsory Marathi)			
Months	Class/ Semester		Topic to be Coverd
August 2022	B.A.I (A+B) --	साहित्यरंग भाग -०१	गद्य - पाठ - १ पद्य - कविता - १
	B.A.II (A+B) -	साहित्यरंग भाग -०२	गद्य - पाठ - १ पद्य - कविता - १
	B.A.III	साहित्यरंग भाग -०३	गद्य - पाठ - १ पद्य - कविता - १
September 2022	B.A.I (A+B)	साहित्यरंग भाग -०१	गद्य - पाठ - २ पद्य - कविता - २
	B.A.II -(A+B)	साहित्यरंग भाग -०२	गद्य - पाठ - २ पद्य - कविता - २
	B.A.III -	साहित्यरंग भाग - ०३	गद्य - पाठ - २ पद्य - कविता - २
October 2022	B.A.I (A+B)	साहित्यरंग भाग -०१	गद्य - पाठ - ३ व्यावहारिक मराठी पाठ - १
	B.A.II (A+B)	साहित्यरंग भाग -०२	गद्य - पाठ - ३ व्यावहारिक मराठी पाठ - १
	B.A.III -	साहित्यरंग भाग -०३	गद्य - पाठ - ३ व्यावहारिक मराठी पाठ - १
November 2022	B.A.I (A+B)	साहित्यरंग भाग -०१	गद्य -पाठ - ४ व्यावहारिक मराठी पाठ - २
	B.A.II (A+B)	साहित्यरंग भाग -०२	गद्य - पाठ - ४ व्यावहारिक मराठी पाठ - २
	B.A.III -	साहित्यरंग भाग -०३	गद्य - पाठ - ४ व्यावहारिक मराठी पाठ - २
December 2022	B.A.I (A+B)	साहित्यरंग भाग -०१	गद्य - पाठ - ५ पद्य - कविता - ४,५
	B.A.II (A+B)	साहित्यरंग भाग -०२	गद्य - पाठ - ५ पद्य - कविता - ४,५
	B.A.III -	साहित्यरंग भाग -०३	गद्य - पाठ - ५ पद्य - कविता - ४,५



श.सु. २०२२

Semester II nd , IV th , VI th (Compulsory Marathi)			
Months	Class/ Semester		Topic to be Coverd
January 2023	B.A.I (A+B)	साहित्यरंग भाग -०१	गद्य - पाठ -१ पद्य - कविता - १
	B.A.II (A+B)	साहित्यरंग भाग -०२	गद्य - पाठ -१ पद्य - कविता - १
	B.A.III -	साहित्यरंग भाग -०३	गद्य - पाठ -१ पद्य - कविता - १
February 2023	B.A.I (A+B)	साहित्यरंग भाग -०१	गद्य - पाठ -२ पद्य - कविता - २
	B.A.II (A+B)	साहित्यरंग भाग -०२	गद्य - पाठ -२ पद्य - कविता - २
	B.A.III -	साहित्यरंग भाग -०३	गद्य - पाठ -२ पद्य - कविता - २
March 2023	B.A.I (A+B)	साहित्यरंग भाग -०१	गद्य - पाठ -३ व्यावहारिक मराठी पाठ -१
	B.A.II (A+B)	साहित्यरंग भाग -०२	गद्य - पाठ -३ व्यावहारिक मराठी पाठ १
	B.A.III -	साहित्यरंग भाग -०३	गद्य - पाठ - ३ व्यावहारिक मराठी पाठ -१
April 2023	B.A.I (A+B)	साहित्यरंग भाग -०१	गद्य - पाठ - ४ पद्य - कविता - ३
	B.A.II (A+B)	साहित्यरंग भाग -०२	गद्य - पाठ - ४ पद्य - कविता - ३
	B.A.III -	साहित्यरंग भाग -०३	गद्य - पाठ - ४ पद्य - कविता - ३
May 2023	B.A.I (A+B)	साहित्यरंग भाग -०१	गद्य - पाठ - ५ पद्य - कविता - ४
	B.A.II (A+B)	साहित्यरंग भाग -०२	गद्य - पाठ - ५ पद्य - कविता - ४
	B.A.III -	साहित्यरंग भाग -०३	गद्य - पाठ - ५ पद्य - कविता - ४
June 2023	B.A.I (A+B)	साहित्यरंग भाग -०१	पद्य - कविता - ५ व्यावहारिक मराठी पाठ - २
	B.A.II (A+B)	साहित्यरंग भाग -०२	पद्य - कविता - ५ व्यावहारिक मराठी पाठ - २
	B.A.III -	साहित्यरंग भाग -०३	पद्य - कविता - ५ व्यावहारिक मराठी पाठ - २



डॉ. भारत कडबे
सहाय्यक प्राध्यापक
मराठी विभाग

नबीरा महाविद्यालय, काटोल.
अध्यापन आराखडा - २०२२ - २०२३

प्राध्यापकाचे नाव : विनोद रामदास वंजारी

विभाग : मराठी

विषय / पेपर : मराठी

वर्ग : बी.कॉम. - सत्र : १

महिना

घटक

घटक - १ - गद्य विभाग.

ऑगस्ट .

१ - भारतीय लोकशाहीचे भवितव्य काय ?

२ - काळी आई

सप्टेंबर .

३ - संत तुकातामांचे अभंग

४ - माझी शाळा

ऑक्टोबर .

५ - समतेचे वारकरी : संत गाडगे बाबा आणि राष्ट्रसंत तुकडोजी महाराज

६ - लोककल्याणकारी राजा : छत्रपती शाहू महाराज

दिवाळी : २० ऑक्टोबर ते ३० ऑक्टोबर २०२२

नोव्हेंबर .

घटक - २ - पद्य विभाग.

१ - ज्ञानेश्वरांचे अभंग

२ - वनसुधा

हिवाळी सुट्या : २५ नोव्हेंबर ते ७ डिसेंबर २०२२

३ - नवा शिपाई

४ - मेंढर

५ - पोरी

६ - गाव

डिसेंबर .

घटक - ३ - व्यावहारिक मराठी.

१ - म्हणी

२ - मुलाखतलेखन



वर्ग : बी.कॉम. -सत्र : २

महिना	घटक
जानेवारी.	घटक - १ - १ - आमची एक दृष्ट खोड : आळस २ - शील बनविणारे शिक्षक ३ - मनुष्याचा देव आणि विश्वाचा देव ४ - डॉ. पंजाबराव देशमुख
फेब्रुवारी.	घटक - २ - ५ - नात ६ - रुपी-माझी साक्ष ! १ - एकनाथांची भारुडे २ - दणकट दंडसायू जैसे
मार्च.	३ - माय ४ - पुतळे ५ - उद्घोष ६ - जागर
एप्रिल.	घटक - ३ - १ - वाकप्रचार २ - जाहिरातलेखन



(विनोद रामदास वंजारी)

स्वाक्षरी

नबिरा महाविद्यालय, काटोल .
अध्यापन आराखडा - २०२१ - २०२२

प्राध्यापकाचे नाव : विनोद रामदास वंजारी

विभाग : मराठी

विषय / पेपर : मराठी

वर्ग : बी.कॉम. - सत्र : ३

महिना

घटक

घटक - १ - गद्य
ऑगस्ट .

- १ - विंझी गोडवाडा अवस्थान
- २ - शेती सुधारणाविषयक विचार
- ३ - अखेरचे वक्तव्य
- ४ - भारतीय स्त्रीत्वाचे गाणे सावित्री
- ५ - मरिआईचा गाडा

सप्टेंबर .

ऑक्टोंबर .

- ६ - पुस्तक चोरून शाळा शिकली

दिवाळी : २० ऑक्टोंबर ते ३० ऑक्टोंबर २०२२

नोव्हेंबर .

घटक - २ - पद्य

- १ - संत कावियत्रींची अभंगवाणी
- २ - निश्चयाचा महामेरू

हिवाळी सुट्या : २५ नोव्हेंबर ते ७ डिसेंबर २०२२

- ३ - नववधू, प्रिया मी ...
- ४ - सारेच दीप कसे मंदावले आता
- ५ - सोनं होऊन उगावं
- ६ - विश्वाचे नवल

डिसेंबर .

घटक - ३ - व्यावहारिक मराठी

- १ - वृत्त संपादन
- २ - शुद्ध शब्द



[Handwritten signature]

वर्ग : बी.कॉम. - सत्र : ४

महिना

घटक

जानेवारी.

घटक - १ - गद्य विभाग

- १ - खरे विद्यापिठ कोणते ?
- २ - संस्कार
- ३ - नक्षत्रांचे देणे
- ४ - बिल्वा

फेब्रुवारी.

- ५ - श्रीकृष्ण : बहुआयामी व्यक्तिमत्व
- ६ - यमाजीची गोष्ट

घटक - २ - पद्य

- १ - तीन अभंग
- २ - छावे ज्ञान मला

मार्च.

- ३ - दैवजात दुःखें भरता..
- ४ - कष्टाचे गीत
- ५ - जीजामाता
- ६ - पाखरू ...

एप्रिल.

घटक - ३ - व्यावहारिक मराठी

- १ - इंटरनेट आणि मराठी भाषा
- २ - इंग्रजी शब्दसंक्षेप व मराठी शब्दविस्तार



(विनोद रामदास वंजारी)

स्वाक्षरी

TIME TABLE

Name of the Teacher : B.P. Walondze Subject Philosophy

From : 2022 To 2023

0:33 am

Period	1	2	3	4	5	6	7	8
Duration	8-00 8-48	8-48 9-36	9-40 10-28	10-28 11-16	11-20 12-08	12-08 12-22		
MON	II	III	-	-	-	II	II	
TUE	II	-	III	-	-	III		
WED	II	-	III	I	-	II		
THU	-	III	-	I	I	II	III	
FRI	II	III	-	I	I	II		
SAT	-	-	II	-	II	II		

B.P. Walondze
B. P. WALONDZE LONDRE

NABIRA MAHAVIDYALAYA, KATOL
Department of Philosophy
Action Plan
Session: 2022-23

- July : Bridge course program.
- Aug. : Meeting arrange
- Sept. : Guest lecture /webinar
- Oct/Nov.: Group discuss
- Dec/Jan.: visit to Religious place
- Feb. : Poster Presentation
- March : Mentor Students



Dr. B P. Walondre
(Dept. Of Philosophy)
Associate Professor & Head
Dept. of Philosophy, N.M.V. KATOL

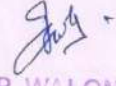
Department of Philosophy

Nabira Mahavidyalaya, Katol

Teaching plan

Session : 20 **2-2-23**


Month	Class	Paper	Topic
July	BA Sem.I	Ethics	भारतीय नीतिशास्त्राचे स्वरूप व त्याचा कथिक विकास
	BA Sem.III	logic	न्यायदर्शनाचे अनुमान स्वरूप
	BAIII	Phil	सांख्य दर्शन
August	BA Sem.I	Ethics	धर्माचे स्वरूप, कर्माचा सिद्धांत, निष्काम कर्मयोग
	BA Sem.III	logic	बौद्धांचे अनुमान स्वरूप
	BAIII	Phil	वेदांत दर्शन
September	BA Sem.I	Ethics	बौद्धनिती, योगनिती
	BA Sem.III	logic	जैनांचे अनुमान स्वरूप
	BAIII	Phil	वैशेषिक दर्शन
Oct-Nov	BA Sem.I	Ethics	जैननिती, पुरुषार्थ
	BA Sem.III	logic	हेत्वाभासाचे स्वरूप
	BAIII	Phil	ईश्वर अस्तित्व
December	BA Sem.II	Ethics	पाश्चात्य नीतिशास्त्राचे स्वरूप नीती निर्णयाचा विषय
	BA Sem.IV	logic	सांकेतिक तर्कशास्त्राचे स्वरूप
	BAIII	Phil	द्रव्याचे स्वरूप
January	BA Sem.II	Ethics	सुखवाद: मानसशास्त्रीय व नीतिशास्त्रीय उपयुक्ततावाद
	BA Sem.IV	logic	पारंपारिक तर्कशास्त्राचे स्वरूप
	BAIII	Phil	ज्ञानमीमांसा, बुद्धिवाद, अनुभववाद, कल्पनावेद
February	BA Sem.II	Ethics	बुद्धिवाद, शिल्पाचा सिद्धांत
	BA Sem.IV	logic	विधान चौरस, परिवर्तन व प्रतिवर्तन
	BAIII	Phil	अरिस्टोटलची कारणता, अर्थोपत्ति, अनुपलब्धि
March	BA Sem.II	Ethics	अधिनितिशास्त्र, उपयोजित नीतिशास्त्र
	BA Sem.IV	logic	तर्कदोष
	BAIII	Phil	प्रमाणवाद, स्वता व परता


Dr. B. P. WALONDRE
Associate Professor & Head
Dept. of Philosophy, N.M.V. KATOL

NABIRA MAHAVIDYALAYA, KATOL DIST- NAGPUR.
Time Table for the Faculty of Humanities 2022-23

Day	Time & Class	1		2		9:36 to 9:40	3	4	5	6
		8.00 to 8.48	8.48 to 9.36	9.36 to 9.40	9.40 to 10.28					
MON	B.A.I - A	MLT(RRP) ELT (PVS)	HIS (RRD)		ENG (MDL)		POL (HYK)/ H.ECO (DDG)	POL (HYK)/ H.ECO (DDG)	MAR (BSK)	H-ECO Pract
	B.A.II - B	MAR (BSK)	HIS (RRD)		POL (HYK)		ENG (MDL)	ENG (MDL)		
	B.A.II - A	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP) ELT (PVS)		MAR (BSK)	MAR (BSK)		
	B.A.III - A	ENG(TUT)	POL (HYK)		MLT(RRP)		ENG (YPB)	ENG (YPB)		
	B.A.III - B	POL (HYK)	ECO/PHI (BPW)		MAR (BSK)		MLT(RRP) ELT (SKN)	MLT(RRP) ELT (SKN)		
	B.A.I - A	MLT(RRP) ELT (PVS)	HIS (RRD)		POL (HYK)/ H.ECO (DDG)		ENG (YPB)	ENG (YPB)		
TUE	B.A.II - A	MAR (BSK)	ECO/PHI (BPW)		MLT(RRP)		POL (HYK)	POL (HYK)		
	B.A.II - B	ECO/PHI (BPW)	MAR (RRRP)		MLT(RRP)		ENG (YPB)	ENG (YPB)		
	B.A.II - A	HIS (RRD)	MAR (BSK)		MLT(RRP) ELT (PVS)		MLT(RRP) ELT (SKN)	MLT(RRP) ELT (SKN)		
	B.A.II - B	HIS (RRD)	MAR (RRRP)		ECO/PHI (BPW)		ENG (PKT)	ENG (PKT)		
	B.A.II - A	MLT(RRP) ELT (PVS)	ENG (MDL)		HIS (RRD)		ECO/PHI (BPW)	ECO/PHI (BPW)		
	B.A.II - B	POL (HYK)	ENG (YPB)		MLT(RRP) ELT (PVS)		HIS (RRD)	HIS (RRD)		
WED	B.A.II - A	ECO/PHI (BPW)	ENG(TUT)		MLT(RRP)		HIS (RRD)	HIS (RRD)		
	B.A.II - B	MAR (BSK)	MAR (RRRP)		ECO/PHI (BPW)		MLT(RRP) ELT (SKN)	MLT(RRP) ELT (SKN)		
	B.A.II - A	HIS (RRD)	MAR (RRRP)		MLT(RRP)		ENG (PKT)	ENG (PKT)		
	B.A.II - B	HIS (RRD)	MAR (RRRP)		ECO/PHI (BPW)		ENG (PKT)	ENG (PKT)		
	B.A.II - A	MLT(RRP) ELT (PVS)	HIS (RRD)		POL (HYK)/ H.ECO (DDG)		MAR (BSK)	MAR (BSK)		
	B.A.II - B	MAR (BSK)	ENG (YPB)		MLT(RRP) ELT (PVS)		POL (HYK)	POL (HYK)		
THU	B.A.II - A	ECO/PHI (BPW)	MAR (BSK)		MLT(RRP)		HIS (RRD)	HIS (RRD)		
	B.A.II - B	MAR (BSK)	ENG (YPB)		MLT(RRP)		HIS (RRD)	HIS (RRD)		
	B.A.III - A	HIS (RRD)	ECO/PHI (BPW)		MAR (BSK)		MLT(RRP) ELT (SKN)	MLT(RRP) ELT (SKN)		
	B.A.III - B	HIS (RRD)	ECO/PHI (BPW)		ENG (PKT)		MLT(RRP)	MLT(RRP)		
	B.A.I - A	MLT(RRP) ELT (PVS)	HIS (RRD)		POL (HYK)/ H.ECO (DDG)		ECO/PHI (BPW)	ECO/PHI (BPW)		
	B.A.I - B	POL (HYK)	ENG (YPB)		ENG (MDL)		ECO/PHI (BPW)	ECO/PHI (BPW)		
FRI	B.A.II - A	ECO/PHI (BPW)	MAR (BSK)		MLT(RRP) ELT (PVS)		HIS (RRD)	HIS (RRD)		
	B.A.II - B	ECO/PHI (BPW)	ENG (YPB)		MLT(RRP)		HIS (RRD)	HIS (RRD)		
	B.A.III - A	HIS (RRD)	ECO/PHI (BPW)		HIS (RRD)		MLT (RRP) ELT (SKN)	MLT (RRP) ELT (SKN)		
	B.A.III - B	HIS (RRD)	ECO/PHI (BPW)		HIS (RRD)		ENG (TUT)	ENG (TUT)		
	B.A.II - A	ECO/PHI (BPW)	HIS (RRD)		ECO/PHI (BPW)		ENG (TUT)	ENG (TUT)		
	B.A.II - B	ECO/PHI (BPW)	HIS (RRD)		ECO/PHI (BPW)		ENG (TUT)	ENG (TUT)		
SAT	B.A.II - A	MAR (BSK)	POL (HYK)/ H.ECO (DDG)		HIS (RRD)		MAR (BSK)	MAR (BSK)		
	B.A.II - B	POL (HYK)	ENG (YPB)		HIS (RRD)		ENG (TUT)	ENG (TUT)		
	B.A.III - A	HIS (RRD)	MAR (BSK)		HIS (RRD)		ECO/PHI (BPW)	ECO/PHI (BPW)		
	B.A.III - B	HIS (RRD)	MAR (RRRP)		POL (HYK)/ H.ECO (DDG)		ECO/PHI (BPW)	ECO/PHI (BPW)		
	B.A.II - A	MLT(RRP) ELT (PVS)	ENG (MDL)		POL (HYK)/ H.ECO (DDG)		ECO/PHI (BPW)	ECO/PHI (BPW)		
	B.A.II - B	MAR (BSK)	ENG (YPB)		POL (HYK)/ H.ECO (DDG)		ENG (PVS)	ENG (PVS)		


 Coordinator
 Time table Committee


 Principal
 Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA KATOL

(M.A. HISTORY PART - I & II)
TIME TABLE 2022 - 2023

M.A PART - I

DAY	1 8.00 TO 9.00	2 9.00 TO 10.00	BREAK 10.00 TO 10.10	3 10.10 TO 11.10	4 11.10 TO 12.10
MON.	Behniya - II	Dodke - I	Break	Kalambe - IV	Behniya - II
TUE.	Behniya - II	Dodke - I		Bhakte - III	Kalambe -IV
WED.	Behniya - II	Dodke - I		Bhakte - III	Behniya - II
THU.	Behniya - II	Dodke - I		Bhakte - III	Kalambe -IV
FRI.	Behniya - II	Dodke - I		Bhakte - III	Kalambe -IV
SAT.	Behniya - II	Kalambe -IV		Bhakte - III	Behniya - II

M.A PART - II

DAY	1 8.00 TO 9.00	2 9.00 TO 10.00	BREAK 10.00 TO 10.10	3 10.10 TO 11.10	4 11.10 TO 12.10
MON.	Dodke - IV	Behniya - III	Break	Bhakte - I	Kalambe - II
TUE.	Dodke - IV	Behniya - III		Kalambe - II	Bhakte - I
WED.	Dodke - IV	Behniya - III		Behniya - III	Kalambe - II
THU.	Dodke - IV	Behniya - III		Kalambe - II	Bhakte - I
FRI.	Dodke -IV	Behniya - III		Behniya - III	Bhakte - I
SAT.	Kalambe - II	Behniya - III		Behniya - III	Bhakte - I

M.A. I - Papers (Sem- I)

- I - Historiography
- II - India Under Company Rule
- III - Indian National Movement
- IV - Modern World

M.A.II - Papers (Sem- III)

- I- Emergence of Maratha Power in 17th Century
- II - State in Ancient and Medieval India
- III - Economic History Of India
- IV - History of Medieval Vidharbha

Workload

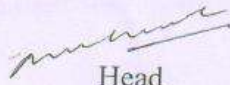
- 1) Mr. S.B. Behniya = 18
- 2) Mr. M.R. Dodke = 10
- 3) Mr. S.V. Kalambe = 10
- 4) Mr. A.N. Bhakte = 10

Dr. R.R. Dhote
Dr. R.R. Dhote
(HOD, B.A. & D.H.O.T.E)
H.O.D. Department of History

NABIRA MAHAVIDYALAYA, KATOL
DEPARTMENT OF HISTORY (U.G.)
SESSION 2022-2023
Month wise Action Plan

<u>Month</u>	<u>Activity /Events</u>
July	- Admission for B.A. I Semester.
August	- Students Motivation, Bridge course.
September	- Teachers Day Celebration, Remedial Classes
October	- Mahatma Gandhi Birth Ceremony & Cleanness Drive. Competitive Exam Guidance
November	- Guest Lecture, Students Seminar & Test Paper.
December	- Students seminar (Assessment)
January	- Savitribai Phule, Rajmata Jijabai & Swami Vivekanand Birth ceremony.
February	- Chatrapati Shivaji Maharaj Birth Ceremony, Educational Tour.
March	- Competitive Exam Guidance, Students Seminar (Assessment) Mentor Students.
April	- Dr.Babasaheb Ambedkar Birth Ceremony, Test Paper &Farewell Program.

Received
5.07.22

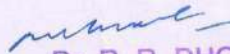

Head
Department of History (UG)
Dr. R. R. Dhote

Nabira Mahavidyalaya, KATOL
H.O.D. Department of History
Dr. R. R. DHOTE

NABIRA MAHAVIDYALAYA, KATOL
DEPARTMENT OF HISTORY (P.G.)
SESSION 2022-2023
Month wise Action Plan

<u>Month</u>	<u>Activity /Events</u>
July	- Admission for M.A. I & III Semester.
August	- Welcome program M.A.I & Students Motivation
September	- Teachers Day Celebration, Remedial Classes
October	- Mahatma Gandhi Birth Ceremony & Cleanness Drive. Competitive Exam Guidance
November	- Guest Lecture, Students Seminar & Test Paper.
December	- Students seminar (Assessment)
January	- Savitribai Phule, Rajmata Jijabai & Swami Vivekanand Birth ceremony.
February	- Chatrapati Shivaji Maharaj Birth Ceremony , Educational Tour.
March	- Competitive Exam Guidance, Students Seminar (Assessment)
April	- Dr.Babasaheb Ambedkar Birth Ceremony, Test Paper &Farewell Program

Head
Department of History (PG)


Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

DEPARTMENT OF HISTORY (PG)

Nabira Mahavidyalaya Katol

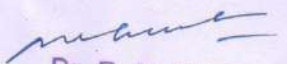
Report

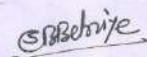
Completion of Syllabus

(2022-2023)

Date - 23/11/2022

Sr.No	Name of the Teacher	Subject/Paper	Class	% of Syllabus Completed	Signature
1	Mr. S.B. Behniye	IUCR-1757 1857	M.A.I	60%	S.B.Behniye
		EHI - 1757 1857	M.A.II	70%	S.B.Behniye
2	Mr. M.R. Dodke	HISTORIOGRAPHY	M.A.I	55%	M.R.Dodke
		HMV -	M.A.II	60%	M.R.Dodke
3	Mr. S.V. Kalambe	M/W 1914 1950	M.A.I	60%	S.V.Kalambe
		SAMI -	M.A.II	75%	S.V.Kalambe
4	Mr. A.N. Bhakte	CHM.	M.A.I	50%	A.N.Bhakte
		EMP 17th century	M.A.II	60%	A.N.Bhakte


Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL


Mr. Shricharan B. Behniye
Date. 23/11/2022

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN - ~~2021-22~~ 2022-23

To be submitted to the Teacher Appraisal Committee

Name of the Teacher : Dr. R. R. Dhote

Dept. His

Subject/Paper : History

Class : B.A.I sem
B.A.II sem.

B. A I - sem

History of India (Earliest Times to 1525)
Topics to be covered

Month

June

- * The Harappan civilization
Vedic Age

July

- * Jainism, Buddhism - origin, Tenets

August

- * Chandragupta Maurya - Administration
Ashoka - His Conquests, Dhamma,
The Gupta Dynasty.

September

- * Chandragupta I, Samudragupta,
Chandragupta Vikramaditya,
Vakataks, ~~Elton~~ Elton.

October

- * Balban, A. Khilji, Mohammad Tughlaq,
Feroz Tughlaq, Bhakti Movement -
Sufi culture, Architecture - Sultanate

November

History of India from 1526 - 1761

B. A II sem

December

- * Babur, Sher Shah - Administration
AKbar - Religious Policy, Mansabdar
system.

January

- * Shahjahan, Aurangzeb - south Policy
Art and Architecture during Mughal
Period.

February

- * Shivaji - Relation with Deccan & Mughal
Shivaji - Coronation, Administration
Chhatrapati Sambhaji - Relation with Mughal

March

- * Maratha war of Independence - Shahu.
Third battle of Panipat
Advent of European Trading
companies.


Signature

Dr. R. R. Dhote

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN - ~~XXXXXX~~

To be submitted to the Teacher Appraisal Committee

Name of the Teacher : Dr. R. R. Dhoke

Dept. : History

Subject/Paper : History

Class : B.A. III sem

B.A. IV sem.

B.A. III sem

History of India (1764-1885)

Month

Topics to be covered

June

* Battle of Buxar, Dual Government
Robert Clive,

July

* Permanent settlement - Lord Cornwallis.
Rajawati, Mahalwasi system

August

* Subsidiary Alliance of Lord Wellesley
Lord Bentinck - Internal Reform
Lord Dalhousie - Doctrine of Lapse

September

* 1857 Revolt - Causes & Effects
Brahmo Samaj, Prarthana Samaj, Arya Samaj

October

* Lord Lytton's - Administration, Lord
Ripon's Administration Indian National
Congress.

November

History of India - 1886-1947

B.A. IV sem

December

* Establishment of Indian National Congress
Rise & Growth of Extremism
Nature of Moderate Politics

January

* Non Co-operation Movement, Civil
Disobedience Movement, Quit India
Movement -

February

* R.S.S., Cripps Mission,
Cabinet Mission Plan

March

* Subhash Chandra Bose & Indian National
Army, Mountbatten Plan, Indian
Independence Act

Dr. R. R. Dhoke

Signature

Dr. R. R. Dhoke

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN - ~~XXXXXX~~

To be submitted to the Teacher Appraisal Committee

Name of the Teacher : Dr. R. R. Dhote

Dept. : His

Subject/Paper : History

Class : B.A. Vth Sem

BA VI Sem

B.A. V - sem

Modern World - 1789-1920

Month

Topics to be covered

June

* French Revolution, European colonialism of Asia, Causes and consequences of Imperialism.

July

* Sino-Japan war - 1894-95, Russia Japan war (1904-05), Chinese Revolution 1911

August

* Foreign Policy - Bismark and Kaiser William-II, First world war, Treaty of Versailles

September

* League of Nations - structure
League of Nations - Achievements and failures

October

* Russian Revolution - 1917

November

* —

B.A. VIth Sem —

Modern World - 1920-1960

December

* Soviet Russia - Five year Plans
Hitler - Foreign Policy, Mussolini Foreign Policy

January

* Sino-Japanese war 1937-39
Causes of The second world war
~~U.N.O~~ U.N.O - Structure & Achievement

February

* Cold war, NATO, SEATO, Warsaw Pact, Decolonisation of Asia

March

* Establishment of Israel.
Non-Alignment Policy
Suez crisis

Signature

Dr. R. R. Dhote

New syllabus-wise
2022-2023

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN - 2022-2023
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Shlocharan B. Behniye Dept : M.A. History (I)
Subject/Paper : III > India Under company's Rule. Class : M.A. I Sem. IX & II
III > India Under British Rule.

Months	Topic to be covered
August	→ Admission - 2022-2023 M.A. I History. <u>Ist sem. paper. III - Ind. Under. Company's Rule. (1757-1857)</u>
September	<u>Unit No. 1:</u> a) India in the mid-18th century. b) Battels of Plassey and Buxar.
October	c) Aglo Anglo - sikh wars, Anglo - Mysore war. <u>Unit No. 2:</u> a) Subsidiary Alliance system.
November	b) policy of Annexation of Indian States. Diwali - Vacation
December	<u>Unit No. 3:</u> c) Doctrine of laps. a) Regulating Act of 1773 b) Pitt's India Act of - 1784 c) charters Acts - 1813, 1833, 1853.
January	<u>Unit No. 4</u> a) Introduction of western Edu: & Develo. of press. b) Raja Ram Mohan Roy, Brahma samaj. c) Revolt of 1857 - causes and Nature. ★ ★ ★
February	<u>IInd sem. paper: IIIrd. India Under British rule. (1857-1947)</u> <u>Unit No. 1</u> a) Revolt of 187 and its effects. b) Queen's Proclama- tion Act 1858 c) Indian Council Act - 1861, 1892.
March	<u>Unit No. 2</u> - a) Arya samaj, Ramkrishna Mission, satyashodhak sam. b) Emergence of Indian Nationalism. Foundation of congress. c) Moderates and Extremists within the congress.
April	<u>Unit No. 3</u> a) Emergence of Mahatma Gandhi - Early satyagrah in India. b) Non Cooperation movement and civil Disobedience movement. c) Quit India.
May	<u>Unit No. 4</u> - a) Role of Revolutionaries. V. D. Savarkar, Bhagat Singh; Chandrashekhar Azad b) Subhash chandra Bose and INA c) Independence and partition.
June	-
July	-

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

Behniye
Signature 22/09/22

NABIRA MAHAVIDYALAYA, KATOL
 PROFORMA OF TEACHING PLAN - 2022-2023
 To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Shiocharan B. Behniye Dept : M.A. History (II)
 Subject/Paper : III) Economic His. of Ind. (1757-1857) Class : M.A. II sem. III & IV
III) Eco. His. of Ind. (1858-1947)

Months	Topic to be covered
August	: <u>Admission</u> <u>Sem. IIIrd. paper. IIIrd. Eco. His. of India (1757-1857)</u>
September	: <u>Unit. No. 1</u> (a) Nature of Rural and Urban Economy in mid-18th century. (b) Euro European Economic Interest in India. (c) commercial policy of East India company.
October	: <u>Unit. No. 2</u> (a) Land Revenue settlement - Permanent settlement; Ryotwari and. mahalwari.
November	: <u>Diwali vacation</u> b) Rural Indebtedness (c) commercialisation of Agriculture.
December	: <u>Unit. No. 3</u> (a) policy of De-Industrialisation (b) Introduction of Railways and its impact on Indian Economy. (c) Foreign capital Investment in India.
January	: <u>Unit. No. 4</u> (a) changing Nature of Trade. (b) Effects of com.'s rule on Indian agriculture. (c) Effe. of. com.'s rule on Indian Industry. * *
February	: <u>Sem. IVth - paper. IIIrd. Eco. His. of India. (1858-1947)</u> <u>Unit. No. 1</u> (a) Agricultural policy (b) Famine policy. (c) Growth of Industries - Cotton, Jute, Iron & steel.
March	: <u>Unit. No. 2</u> (a) Rise of Industrial Labour (b) Trade Unions movement (c) Labour Legislations.
April	: <u>Unit. No. 3</u> (a) Nature of External Trade. (b) Trade Legislations. (c) Drain of Wealth.
May	: <u>Unit. No. 4</u> (a) Main Trends in the Movement of prices. (b) Population Growth - pre and post census Estimates. (c) Movement of National Income after 1858 - Divergent assumptions and estimates.
June	: _____
July	: _____

Behniye
 01/05/2022
 Mr. Shiocharan B. Behniye
 Signature

NABIRA MAHAVIDYALAYA, KATOL
 PROFORMA OF TEACHING PLAN - 2022-2023
 To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Mangesh R. Dodke Dept : History
 Subject/Paper : Paper - II Sem - III History of Medieval Vidarbha Class : IIIrd & IVth
Paper - IV Sem - IV History of Modern Vidarbha

Months	Topic to be covered
June :	—
July :	—
August :	—
September :	<u>Unit-1</u> a) Emergence of Gond Power b) Gond Dynasty of Chandrapur - Bhim Ballal Shah, Suraj Ballal Shah c) Gond Dynasty of Dergad - Jatba, Bakht Buland
October :	<u>Unit-2</u> a) Establishment of Bhosle Rule - Raghuj I b) Raghuj - I - Bengal Expeditions — DIWALI vacation —
November :	a) Jajaji - Relations with the Peshwa, Nizam <u>Unit-3</u>
December :	a) Muchhoji - Relations with the Peshwa, Nizam and the English b) Raghuj II - Relations with the English <u>Unit-4</u>
January :	a) Appa saheb Bhosle - War with the English b) Annexation of Nagpur c) Nagpur during the revolt of 1857 <u>History of Modern Vidarbha</u>
February :	a) Formation and Administration of Central Provinces and Berar b) Sarvaajnik Sabha, Gorakshan Sabha. Educational c) Congress sessions - 1891, 1897, 1900 Institution
March :	<u>Unit-2</u> a) Non cooperation movement, Civil Disobedience Movement b) Quit India Movement - Ashti, Chimur, Yawali
April :	a) First Congress Ministry Under Dr. N. B. Khare <u>Unit-3</u> a) Separate Vidarbha Movement b) Dalit Movement c) Samyukti Maharashtra Movement
May :	<u>Unit-4</u> a) Social Welfare Activities - Missionary work, matru seva Sangh, Anandvan b) Rashtriya swayam sevak Sangh c) Dhamma chakra Pravartan

Dr. R. R. DHOTE
 H.O.D. Department of History
 Nabira Mahavidyalaya, Katol

[Signature]
 Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN - 2022-2023
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Mangesh R. Dodke Dept : History
Subject/Paper : Historiography Class : M.A.I

Months

Topic to be covered

June :

July :

August :

- September: Unit-1
a) Meaning of Historiography
b) Allied and Auxiliary Sciences of History
- October: a) Philosophics of History and Historicism
Unit-2 a) Sanskrit Texts - Vedic literature, Itihasa-Purana traditions.
b) Buddhist sources
- November: - Diwali vacation -
a) Jain Sources
Unit-3 a) Greek Historiography
b) Roman Historiography
- December: c) Chinese Historiography
Unit-4 a) Arab Historiography
b) Indo-Persian Historiography
- January: c) Maratha Historiography
3rd sem. Paper 1st TRENDS AND THEORIES OF HISTORY
- February: Unit 1 a) Positivism
b) Annals
c) Post Modernism
Unit 2 a) orientalist Historiography
b) Imperialist Historiography
c) Nationalist Historiography
- March: Unit-3 a) Marxist Historiography in India
b) Dalit Historiography
- April: Unit-4 a) Tribal Historiography
b) Ecological Historiography - Ramchandra Guha
c) Business Historiography - Tirthankar Roy
c) Feminist Historiography in India - Uma Chakravarti

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL


Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN - 2022-2023
 To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Avinash M. Bhakte Dept : History
 Subject/Paper - Cultural History of Maharashtra. Class : M.A.I
Paper-2

Months	Topic to be covered
August	:- <u>unit-1 - Maharashtra as a cultural region</u> (a) physical and geographical Features
September	(b) origin of Marathi people & Language (c) Nomenclature of Maharashtra.
October	:- <u>unit-2 - movement and cults: philosophy and teaching</u>
November	(a) Nath - maharubhu, (b) Varkari, Ramdas (c) Datta, sapti, shakti.
December	:- <u>unit-3 = Literature</u>
January	(a) Bhakti (b) panditi (c) shahiri, Folk
February	:- <u>unit IV -</u> (a) Balshastri, Jambhekar (b) Jyotirao Phule (c) Savitribai Phule <u>Semester - II - Research methodology in History</u>
March	:- <u>unit-1</u> Research, Definition, Need, Nature, Limitations. (b) Types of Research, philosophical, Applied Descriptive, Experimental, Action based research, qualitative.
April	:- <u>Quantitative</u> unit (a) Preliminary operations, preparing Research proposal, primary and secondary sources, Analytical operations.
May	:- <u>unit-3</u> => Determining particular facts, Grouping, Causation. (b) Bibliography
June	:- <u>unit-4</u> (a) challenges of objectivity (b) Uses and misuse of History (c) Ethics in Research issue, plagiarism
July	:-

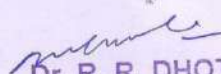
Dr. R. R. DHOTE
 H.O.D. Department of History
 Nabira Mahavidyalaya, KATOL


 Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN - 2022-2023
 To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Ainash N. Bhatke Dept : History
 Subject/Paper : Emergence of maratha power Class : M.A. III sem
17th century
 Months : sem-Three-Paper-I Topic to be covered

- August : Admission
unit-1
- September : (a) Sources of maratha History - Bahars, Adnyapatra, Shukavali
 (b) Rise of the marathas (c) concept of Maharashtra Dharma.
- October : unit-2 (a) Shivaji's Relations with Adilshahi
 (b) Shivaji's Relations with the mughals
 (c) significance of Shivaji's coronation
- November : unit-3 (a) Sambhaji's Relations with the portuguese
 (b) Sambhaji's Relations with the sikdis of Jansira. (c) Sambhaji's Relations - mughals
- December : unit-4 (a) The maratha war of Independence
 (b) civil, judicial administration
 (c) military and naval Administration
- January :
- February : semester - Four [Expansion of maratha power: 1707-1818]
unit-1 (1) Accession of shahu as chhatrapati
 (2) Accession of sanads by Balaji Vishwanath
 (3) Peshwa Baji Rao I. Expansion of maratha power in India
- March : unit-2 (a) Third Battle of Panipat - causes and Effects.
 (b) Peshwa madhav Rao I Restoration of maratha Navy
 (c) Anglo-maratha wars Downfall of m. power
- April : unit-3 (a) Nature of maratha confederacy
 (b) civil and judicial Administration
- May : unit-4 (a) Trade and commerce
 (b) social and Economic conditions
- June : (c) Art and Architecture
- July :


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 Signature

semesters
I & II

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN - 2022-2023
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Shishir V. Kalambe Dept : History
Subject/Paper : Modern World - 1914 - Contemporary World - 2000 Class : M.A.I

Months	Topic to be covered
August	Unit - I *: Causes and Impact of the first world war.
September	*: Causes of Versailles & codes. *: Impact of League of Nation.
October	Unit - II *: Causes of Bolshevik Revolution 1917 *: Russian planned economy in scheme.
November	*: China under Kuomintang Rule
December	Unit - III *: Rise of Nazism in Germany & causes, Impact *: Rise of fascism in Italy & causes, Impact
January	*: Militarism in Japan & development.
February	Unit - IV *: Causes of Second world war. *: formation of U.N.O and Society.
March	*: Palestine problems and Effects. *: Origin and course of cold war. Unit - I *: Causes of Berlin and Impact *: UNO Disarmament.
April	Unit - II *: How to the rise of socialist Bloc in Europe *: How to the Disintegration of socialist Bloc *: Causes fall of Soviet state in Russia.
May	Unit - III *: Decolonisation in Asia and Africa. *: Apartheid Problem.
June	*: Internal Development in People's Republic China
July	Unit - IV *: Globalisation & rise of bipolar world.

Shishir V. Kalambe
Mr. Shishir Kalambe.
Signature

Semester
III & IV

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN - 2022-2023
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Shishir V. Kalambe Dept : History
Subject/Paper : state in Ancient & Medieval India : India : M.A. II
state in British India : India : M.A. II

Months	Topic to be covered
Unit-I	
August	* Concept of 16 Mahajanapadas * Socio-Economics Basic of the Mauryan state
Semester III	* Administrative organisation Gupta Polity
September	Unit-II * Rise of state under the Cholas * Rise of Vijayanagara & nature and structure
October	* Rise of Bahamani state
Unit-III	* Theory of the Islamic state
November	* Theory of the state under the Sultan Delhi * Administrative Institutions.
Unit-IV	* Description of travel on falien & hiven
December	* ———— Koniti & Chauhan * ———— Batuti & Manuchi
January	Unit-I * Nature of state Apparatus - secretary of India * Administration of civil, police services
Semester IV	* Administration of judicial services.
February	Unit-II * Concepts of swarajya & Home Rule * Concepts of Dominion status * Concepts of Two Nation theory.
March	Unit-III * British Policy of towards Native states 1857-1921 * " " " " " " 1921-1947
April	* Concepts of Integration of Indian states
May	Unit-IV * Aim and objective of Indian constitution * Features of Indian constitution * Reorganization of states.
June	
July	

Shishir V. Kalambe

Signature

TEACHER WISE TIME-TABLE

SESSION-2022-2023

NAME- DR. D.D.GHAGARGUNDE

SUB- HOME-ECONOMICS

Period	1	2	3	4	5	6	7
Duration	8.00- 8.48	8.48- 9.36	9.40- 10.28	10.28- 11.16	11.20- 12.08	12.08- 12.56	12.56- 01.48
Mon	-----	-----	-----	I	III	PRA-I	PRA-I
Tue	-----	-----	I	II	III	PRA-I	PRA-I
Wed	-----	-----	-----	-----	II	PRA-I	PRA-I
Thu	-----	-----	I	-----	II	PRA-III	PRA-III
Fri	-----	-----	I	-----	III	PRA-II	PRA-II
Sat	-----	II	III	-----	-----	PRA-II	PRA-II


PERIODS:- THEORY (12). PRACTICAL (12)= T0tal (24)

SIGNATURE OF TEACHER

DR. D.D. GHAGARGUNDE

HEAD DEPTT. OF HOME-ECONOMICS

NABIRA MAHAVIDYALAYA, KATOL


डॉ. दमयंती घागरगुंडे
गृह - अर्थशास्त्र
विभाग प्रमुख
नबीरा महामिद्यालय, काटोल




DEPARTMENT OF HOME-ECONOMICS

NABIRA MAHAVIDYALAYA KATOL


REPORT

COMPLETION OF SYLLABUS

SESSION 2022-23

Sr. no.	Name of Teacher	subject	class	% of syllabus completed	sign
1	Dr. D. D. GHAGARGUNDE	Home- Economics	B. A. I & II SEM	100%	
2	Dr. D. D. GHAGARGUNDE	Home- Economics	B. A. III & IV SEM	100%	
3	Dr. D. D. GHAGARGUNDE	Home- ECONOMICS	B. A. V & VI SEM	100%	

DATE-28/04/2023


डॉ. दमयंती घागरगुंडे
गृह - अर्थशास्त्र
विभाग प्रमुख
नबीरा महाविद्यालय, कांटोल


NABIRA MAHAVIDYALAYA KATOL
PROFARMA OF TEACHING PLAN (2022-23)

Name Of the Teacher : **Dr. Damyanti D. Ghagargunde**

Dept.: **Home-Economics**

Month	Class	Subject/Paper	Topics to be covered
01 August 2022	B.A. Sem. V	Child-Development	Unit I: a) Meaning, definition, importance and scope of child-development. b) Field of Child-Development
September 2022	B.A. Sem. I	F R M	Unit I: a) Introduction of Home-Economics b) Branches of Home-Economics
	B.A. Sem. III	Food & Nutrition	Unit I: Definition of Health, Nutrition, Food, Function of food etc.
	B.A. Sem. V	Child-Development	Unit II: Genetic Inheritance-Prenatal development
01 Octo 2022 To 20 oct 2022 Diwali Vaccation 20/10/22 To 29/10/22	B.A Sem. I	F R M	Unit II: a) Family Resource Management b) Decision Making.
	B.A. Sem. III	Food & Nutrition	Unit II: Micro-Nutrients & Vitamins Unit III: Fibre, Energy (caloric), Antioxidants.
	B.A. V	Child-Development	Unit III: Post-natal period.
01 November 2022 Winter Vaccation. 24 Nov to 7 December 2022	B.A. Sem. I	F R M	Unit III: a) Elements of Arts and Design b) Principles of Arts and Design
	B.A. Sem. III	Food & Nutrition	Unit IV: Basic Food Group
	B.A. Sem. V	Child-Development	Unit IV : Immunization and its Importance.
8 December 2022	B.A. Sem. I	F R M	Unit IV: Flower Arrangements
	B.A. Sem. III	Food & Nutrition	Unit IV: Methods of Cooking, Sports Nutrition
	B.A. Sem.V	Child-Development	Unit IV: Importance of Supplementary Food
January 2023	B.A Sem. II	F R M	Unit I: a) Self- Employment in Home-Economics
	B.A. Sem.IV	Food & Nutrition	Unit I: a) Balanced Diet b) Nutrition through Life-Cycle

	B.A. VI	Child- Development	Unit I: Early Childhood
February 2023	B.A. Sem. II	F R M	Unit I: b) Family Housing Needs
	B.A. Sem. IV	Food & Nutrition	Unit II: Principles of Diet Therapy
	B.A. Sem. VI	Child- Development	Unit-II: Speech Development
March 2023	B.A. Sem. II	F R M	Unit II: a) Work-Simplification b) Color.
	B.A. Sem. IV	Food & Nutrition	Unit III: Food Spoilage, Food Poisoning,
	B.A. Sem. VI	Child- Development	Unit III: Social Developments.
April 2023	B.A. Sem. II	F R M	Unit III: Consumer Education
	B.A. Sem. IV	Food & Nutrition	Unit III: Food Preservation, Food Adulteration.
	B.A. Sem. VI	Child- Development	Unit IV: Childhood Behavioural Problems.
May 07/05/22 to 15/5/23	B. A. Sem II	F R M	Unit IV: Furniture Arrangement.
	B. A. Sem IV	Food & Nutrition	Unit IV: Improving Nutritional Quality of Food.
	B. A. Sem VI	Child- Development	Unit IV: Agencies in the Field of Child Development.


 डॉ. दमयंती घागरगुंडे
 गृह - अर्थशास्त्र
 विभाग प्रमुख
 नबीरा महाविद्यालय, काटोल

DEPARTMENT OF ECONOMICS

NABIRA MAHAVIDYALAYA, KATOL

SESSION 2022-2023

Month wise Action Plan

- August - Guest lecture on Indian Economy and inflation.
- September - Students Workshop on Population Education
- October - Debate Competition on post covid Indian Economic problem and solution
- November - Guest Lecture on Current Employment Problem and New Education policy.
- December - Student Group Discussion on Indian Population problem and Indian Economy growth.
- January - Seminar on Current tax Collection System and GST.
- February - Webinar/ Guest Lecture .
- March - Students Seminar on given assignment.
- April - Unit Test & Assignment.



Head

Department of Economics

Nabira Mahavidyalaya, Katol, Dist. Nagpur
Time Table for the faculty of Humanities 2023 - 24

Time → Day ↓	Class	1 8:00 - 8:48	2 8:48 - 9:36	3 9:36 - 10:24	10:24 - 10:34	4 10:34 - 11:22	5 11:22 - 12:10	6 12:10 - 12:58
MON	B.A. I A	ELT (PVS)	ENG (MYR)	HIS (RRD)		POL / H ECO (HYK / DDG)	PHIL / ECO (BPW/GGN)	H ECO Practical
	B.A. I B	MLT (RRP)	ENG (CSR)			ENG (PVS)	MAR (RRP)	MLT (BSK)
	B.A. II A	PHIL/ECO(BPW/GGN)	POL/H ECO (HYK/DDG)	ELT (MDL) / MLT (BSK)		ELT(YPB) MLT(RRP)	POL / H ECO (HYK / DDG)	ENG (TUT)
TUE	B.A. II B	PHIL/ECO(BPW/GGN)	MAR (RRP)	ENG (PVS)		ENG (TUT)	PHIL / ECO (BPW/GGN)	ELT (PVS)
	B.A. III A	MAR (BSK)	PHIL/ECO(BPW/GGN)	ENG (PVS)		POL / H ECO (HYK / DDG)	MAR (RRP)	ELT (PVS)
	B.A. I A	ELT (PVS)	ENG (MYR)	HIS (RRD)		ENG (PVS)	MAR (RRP)	MAR (RRP)
WED	B.A. I B	MLT (RRP)	MAR (BSK)	POL / H ECO (HYK / DDG)		ENG (PVS)	MAR (BSK)	H ECO Practical
	B.A. II A	HIS (RRD)	PHIL/ECO(BPW/GGN)	ELT (MDL) / MLT (BSK)		ENG (PVS)	ELT (MDL)	ENG (CSR)
	B.A. II B	HIS (RRD)	PHIL/ECO(BPW/GGN)	MLT (BSK)		POL / H ECO (HYK/DDG)	ENG (PVS)	POL (HYK)
THU	B.A. III A	MAR (BSK)	HIS (RRD)	ENG (PVS)		POL / H ECO (HYK/DDG)	ENG (TUT)	H ECO Practical
	B.A. I A	ELT (PVS)	ENG (MYR)	HIS (RRD)		PHIL / ECO (BPW/GGN)	POL (HYK)	
	B.A. I B	MLT (RRP)	MAR (BSK)			PHIL / ECO (BPW/GGN)	POL (HYK)	
FRI	B.A. II A	HIS (RRD)	PHIL/ECO (BPW/GGN)	ELT (MDL) / MLT (BSK)		POL / H ECO (HYK/DDG)	MAR (RRP)	H ECO Practical
	B.A. II B	HIS (RRD)	PHIL/ECO(BPW/GGN)	MLT (BSK)		POL (HYK)	ENG (TUT)	
	B.A. III A	PHIL/ECO(BPW/GGN)	HIS (RRD)	ENG (PVS)		ELT (YPB) MLT (RRP)	MAR (BSK)	
SAT	B.A. I A	ELT (PVS)	ENG (MYR)	PHIL/ECO (BPW/GGN)		MAR (BSK)	MAR (BSK)	ENG (TUT)
	B.A. I B	MLT (RRP)	MAR (BSK)	PHIL/ECO (BPW/GGN)		ENG (CSR)	MAR (BSK)	ENG (TUT)
	B.A. II A	POL (HYK)	PHIL/ECO(BPW/GGN)	MLT (BSK)		HIS (RRD)	ENG (TUT)	H ECO Practical

Coordinator
Time Table Committee

Principal
N. M. V. Katol

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan

Session 2022-23

Subject Economics

Name Of the Teacher Dr. Gurudas G. Nehare

BA: III & IV SEM.

Month	Activity/Teaching Plan
August	Macro Economics, Importance & Limitations of Eco, National Income, Methods & difficulties in Measurement of Income, Circular flow of Economic activity
September	GDP, GNP, & Per Capita Income, Importance of National Income, Money, Functions of Money, Quantity theory of Money. and Cambridge Approach
October	Inflation, Dis-inflation, Causes types & effect Monetary Policy, Fiscal Policy, Importance of Deficit budget, Limitations of Fiscal Policy
November	Says Market Law Aggregate demand & supply marginal propensity to consume factors, influencing consumption, importance of propensity to
December	consume, Investment types of Investment Autonomous & Induced Investment. Marginal efficiency of Capital.
January	Commercial Bank, functions of Commercial Bank Credit Creation of Commercial Bank, Importance & functions of Central Bank.
February	Modern Banking, Non performing assets Core Banking, ATM, Debit Credit Card, Plastic Card, Banker clearing house, online Banking
March	MISR Technology, Electronic Cheque, Demat Account Private Sector Bank, Indian Money market financial institution, stock exchange Capital market, Debt Market
April	Health Economics, Causes of health Problems Dispersion, standard deviation, Coefficient of Variation,

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan

Session 2022 - 23

Subject ECONOMICS

Name Of the Teacher Dr. Gurudas G. Nehare

B.A. I & II SEM.

Month	Activity/Teaching Plan
August	Definition of Economics, Economic interaction, Market failure and Market power, Purchasing power parity, Demand theory, Utility theory, elasticity of demand, factors affecting elasticity of demand.
September	Supply theory, Shifting of supply curve, Cost, types of cost, production function, Return to scale, Iso quants, homogenous production function
October	Firms, Market, Competition Market, Monopoly Market, Price Determination under Perfect Competition, Anti-trust Policy, Equilibrium of firm & Industry
November	Modern theory of distribution, welfare economics, Pigouian & Pareto, Maximum welfare & Limitations.
December	Compensation Criteria, Hicks & Kaldor.
January	Basic Economics, Difference between Micro & Macro Economics, National Income, GDP, GNP, NNP, Aggregate demand & supply, National economy
February	Money, functions of Money, Fisher quantity theory of Money, Cash balance approach, Index No of balance. M_1 , M_2 , M_3 , and M_4 functions of Money
March	Inflation, effects of inflation, deflation, Depression and stagflation, Employment & Unemployment types of unemployment.
April	Consumption function, Saving & Investment function, Autonomous investment, Marginal efficiency of capital and rate of interest.

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan

Session 2022-23

Subject Economics

Name Of the Teacher Dr. Gurusdas Nehare

B.A. VI & VII SEM.

Month	Activity/Teaching Plan
August	Economy, Capitalist, Socialist, Mixed, Basic features of Economy, Population, National Income of India, Maharashtra Economy, Indian Agricultural
September	Irrigation, Green revolution, Agriculture credit, Community Farming, Crop Insurance, Livestock problems of Agriculture, Labour, Cropping pattern.
October	Importance & Role of Industries, Economic Development, Small & large industries, Disinvestment, PPP, Industrial Policy of India, New Economic Policy
November	Unemployment, Labour Problem in India, Poverty, methods Poverty in India, Vicious Circle of Poverty
December	Wage-employment problem, Food security programme, DRDA, Urban Poverty programme.
January	Economic growth & Development, sustainable Development, Human Development Index, Poverty Index concept, Inclusive growth, elements of inclusive growth, Indian five year plan, NIFT
February	Aayog, Seziap Economic Zone, Concept of economic reform in India, Public Finance & Public Revenue, Indian tax structure.
March	Goods & Service tax (GST), Public Debt, Budget, Concept of Deficit, Finance Commission, Foreign trade, Trends: export and imports
April	BRICS, Bilateral trade of India, WTO, Balance of Payments, Export Import Policy, foreign Direct Investment, Multinational Corporations.

DEPARTMENT OF COMMERCE

NABIRA MAHAVIDYALAYA, KATOL.

ACTION PLAN – 2022-23

The department finalized the following plan of action for the forthcoming session i.e. 2022-23.

1. All necessary steps will be taken to appoint the teachers to teach English medium B. Com. & M. Com. (non grant) classes.
2. Planned to accelerate ICT based teaching learning process.
3. Planned to organize “Trade Fair” / “Commerce Exhibition”.
4. Planned to organize Guest Lectures of eminent personalities.
5. Departmental activities like Bridge Course, Maza Warga Mitch Vakta, Student Seminars, Parent Meet, Aukshan, etc. will be organized.
6. Felicitations of meritorious students.
7. Planned additional coaching and guidance to Advanced and Slow learners.
8. Initiative for a “Place for Higher Learning and Research”.
9. Planned to organize “study Tour” for PG students.
10. Department will motivate and guide the students of M.Com. for doing NET/SET and Ph.D.



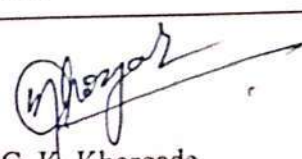
Dr. G. K. Khorgade
H.O.D. Commerce
Nabira Mahavidyalaya, katol.

DEPARTMENT OF COMMERCE

NABIRA MAHAVIDYALAYA, KATOL.

MONTH WISE ACTION PLAN – 2022-23

Month	Action to be taken
July 2022	<ul style="list-style-type: none">• Appointments of necessary CHB Teachers.• Bridge Course (18-07-2022 to 23-07-2022).• Commencement of regular classes (From 25-07-2022).
August 2022	<ul style="list-style-type: none">• Acceleration of teaching work.• Finding out Advanced and Slow learners.
September 2022	<ul style="list-style-type: none">• Self Governance by students (05-09-2022).• Guest Lecture.
October 2022	<ul style="list-style-type: none">• Maza Varg Mich Vakta (Every Saturday)• Remedial coaching.
November 2022	<ul style="list-style-type: none">• Test Examination.• Internal Assessment (odd semesters).• Remedial coaching.
December 2022	<ul style="list-style-type: none">• Experimental Learning - Industrial visit / Field visit.
January 2023	<ul style="list-style-type: none">• Commerce Exhibition.
February 2023	<ul style="list-style-type: none">• Guest Lecture.• Student seminars.
March 2023	<ul style="list-style-type: none">• Test Examination.• Internal Assessment (even semesters).• Maza Varg Mich Vakta (Every Saturday)• Remedial coaching.
April 2023	<ul style="list-style-type: none">• Remedial coaching.
May 2023	Summer Vacation
June 2023	Summer Vacation


Dr. G. K. Khorgade
Head, Dept. of Commerce

DEPARTMENT OF COMMERCE
NABIRA MAHAVIDYALAYA, KATOL.

TIME TABLE – 2022-23

(MARATHI MEDIUM B. COM.)

W.E.F. 25-07-2022

B. COM. I (First Semester)

Room No. F-14

Students Enrolled: 120

DAYS	1	2	3	4	5	6
	8.00 – 8.48	8.48 – 9.36	9.40 – 10.28	10.28 – 11.16	11.20 – 12.08	12.08 – 12.56
MON	MAR – VRW	CF – MSJ	BS - RGG	B/E – VRR	ENG – PVS	ENG/T – B1
TUE	MAR – VRW	B/E – VRR	BS - RGG	F/A - VRR	CF – MSJ	ENG/T – B2
WED	MAR – VRW	B/E – VRR	F/A - VRR	ENG – PVS	BS - RGG	ENG/T – B3
THU	CF – MSJ	B/E – VRR	F/A - VRR	ENG – PVS	BS - RGG	ENG/T – B4
FRI	CF – MSJ	B/E – VRR	F/A - VRR	ENG – PVS	MAR – VRW	ENG/T – B5
SAT	CF – MSJ	BS - RGG	F/A - VRR	ENG – PVS	MAR – VRW	ENG/T – B6

B. COM. II (Third Semester)

Room No. F-13

Students Enrolled:

DAYS	1	2	3	4	5	6
	8.00 – 8.48	8.48 – 9.36	9.40 – 10.28	10.28 – 11.16	11.20 – 12.08	12.08 – 12.56
MON	M/E – MSJ	F/A – RGG	BCM – MSJ	BL – RGG	MAR – VRW	EVS
TUE	M/E – MSJ	F/A – RGG	BCM – MSJ	ENG – YPB	BL – RGG	ENG/T – B1
WED	M/E – MSJ	F/A – RGG	BL – RGG	ENG – YPB	BCM – PNR	ENG/T – B2
THU	MAR – VRW	F/A – RGG	BL – RGG	ENG – YPB	BCM – PNR	ENG/T – B3
FRI	MAR – VRW	F/A – RGG	BL – RGG	ENG – YPB	M/E – MSJ	ENG/T – B4
SAT	MAR – VRW	M/E – MSJ	BCM – PNR	ENG – YPB	MAR – BSK	EVS

B. COM. III (Fifth Semester)

Room No. F-15

Students Enrolled:

DAYS	1	2	3	4	5	6
	8.00 – 8.48	8.48 – 9.36	9.40 – 10.28	10.28 – 11.16	11.20 – 12.08	12.08 – 12.56
MON	ADT - RGG	F/A – PNR	C/A - PNR	M/P – MSJ	M/M - MSJ	--
TUE	ADT - RGG	F/A – PNR	C/A - PNR	M/P – MSJ	I/E – VRR	--
WED	ADT - RGG	F/A – PNR	C/A - PNR	M/P – MSJ	M/M - MSJ	--
THU	I/E – VRR	F/A – PNR	C/A - PNR	M/P – MSJ	M/M - MSJ	--
FRI	I/E – VRR	F/A – PNR	M/M - MSJ	ADT - RGG	I/E – VRR	--
SAT	I/E – VRR	C/A - PNR	M/M - MSJ	ADT - RGG	M/P – MSJ	--

(Signature)

DEPARTMENT OF COMMERCE
NABIRA MAHAVIDYALAYA, KATOL.

TIME TABLE – 2022-23

W.E.F. 01-08-2022

Room No. F- 07

M. COM. SEM. I

Students Enrolled:

DAYS	1	2	3	4	5	6
	8.00 – 8.48	8.48 – 9.36	9.40 – 10.28	10.28 – 11.16	11.20 – 12.08	12.08 – 12.56
MON	--	--	M/E – VRR	IFS – KRN	AFA – GKK	
TUE	--	--	M/E – VRR	IFS – KRN	AFA – GKK	--
WED	--	--	M/M – KRN	M/E – VRR	AFA – GKK	--
THU	--	--	M/M – KRN	M/E – VRR	AFA – GKK	IFS – KRN
FRI	--	--	M/M – KRN	IFS – KRN	AFA – GKK	--
SAT	--	--	M/M – KRN	IFS – KRN	M/E – VRR	--

Room No. F- 06

M. COM. SEM. III

Students Enrolled:

DAYS	1	2	3	4	5	6
	8.00 – 8.48	8.48 – 9.36	9.40 – 10.28	10.28 – 11.16	11.20 – 12.08	12.08 – 12.56
MON	--	--	AMA – GKK	DT – PNR	SSM –	S/T - GKK
TUE	--	--	AMA – GKK	DT – PNR	SSM –	--
WED	--	--	S/T - GKK	DT – PNR	SSM –	--
THU	--	--	S/T - GKK	DT – PNR	SSM –	--
FRI	--	--	S/T - GKK	AMA – GKK	SSM –	--
SAT	--	--	S/T - GKK	AMA – GKK	AMA – GKK	DT – PNR



WORKLOAD ALLOCATION

2022-23 (Odd Semesters)

S.N.	Name of the Teacher	Subjects to be taught	Class	No. of periods allotted	Workload
1.	Dr. G. K. Khorgade (H.O.D.&Research Supervisor)	AFA AMA S/T	M. Com. Sem. I	5*	6
			M. Com. Sem. III	5*	6
			M. Com. Sem. III	5*	6
		TOTAL			
2.	Dr. R. G. Gongale	B/O F/A B/L ADT	B. Com. Sem. I	5	5
			B. Com. Sem. III	5	5
			B. Com. Sem. III	5	5
		B. Com. Sem. V	5	5	
TOTAL				20	
3.	Dr. V. R. Ruikar	F/A B/E I/E M/E	B. Com. Sem. I	5	5
			B. Com. Sem. I	5	5
			B. Com. Sem. V	5	5
		M. Com. Sem. I	5*	6	
TOTAL				21	
4.	Dr. P. N. Raut	F/A C/A BCM D T	B. Com. Sem. V	5	5
			B. Com. Sem. V	5	5
			B. Com. Sem. III	3	3
		M. Com. Sem. III	5*	6	
TOTAL				19	
5.	M. S. Jadhao	CL M/E BCM M/M M/P	B. Com. Sem. I	5	5
			B. Com. Sem. III	5	5
			B. Com. Sem. III	2	2
			B. Com. Sem. V	5	5
		B. Com. Sem. V	5	5	
TOTAL				22	
6.	Dr. K. R. Nabira (CHB)	IFS M/M	M. Com. Sem. I	5*	6
			M. Com. Sem. I	4*	5
		TOTAL			
GRAND TOTAL					111

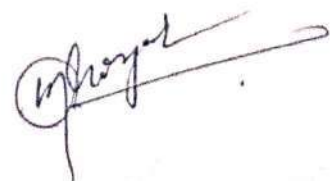
Total Workload:

UG 70 periods of 48 minutes

PG 48 periods (32 periods of 60 minutes each * weightage 1.5)

118 periods

At PG level 4 periods of 60 minutes equal to 240 minutes for each subject are prescribed, however, to manage the Time Table of UG and PG, 5 periods of 48 minutes equal to 240 minutes are provided. The 5 periods are to be considered equal to 6 periods for workload calculation.



DEPARTMENT OF COMMERCE
NABIRA MAHAVIDYALAYA, KATOL.
TIME TABLE – 2022-23
(ENGLISH MEDIUM B. COM)

W.E.F. 01 -08-2022

B. COM. SEM.-I


DAYS	1	2	3	4	5	6
	8.00 – 8.48	8.48 – 9.36	9.40 – 10.28	10.28 – 11.16	11.20 – 12.08	12.08-12.56
MON	BS-NNK	ENG-SKJ	FA-JSK	BE-JSK	MAR-VRV	
TUE	BS-NNK	CF-SDC	FA-JSK	ENG-SKJ	MAR-VRV	
WED	BS-NNK	CF-SDC	BE-JSK	ENG-SKJ	MAR-VRV	
THU	ENG-SKJ	CF-SDC	FA-JSK	BE-JSK	MAR-VRV	
FRI	BS-NNK	CF-SDC	FA-JSK	BE-JSK	ENG-SKJ	
SAT	BS-NNK	CF-SDC	FA-JSK	BE-JSK	MAR-VRV	

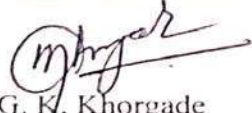
B. COM. SEM.-III

DAYS	1	2	3	4	5	6
	8.00 – 8.48	8.48 – 9.36	9.40 – 10.28	10.28 – 11.16	11.20 – 12.08	12.08-12.56
MON	ME-JSK	BCM-FVK	BL-SDD	MAR-VRV	ENG-SKJ	
TUE	BCM-FVK	FA-KRN	BL-SDD	ME-JSK	ENG-SKJ	
WED	ME-JSK	FA-KRN	BL-SDD	MAR-VRV	ENG-SKJ	
THU	BCM-FVK	FA-KRN	BL-SDD	MAR-VRV	ME-JSK	
FRI	ENG-SKJ	FA-KRN	MAR-VRV	BCM-FVK	BL-SDD	
SAT	ENG-SKJ	FA-KRN	MAR-VRV	BCM-FVK	ME-JSK	

B. COM. SEM.-V

DAYS	1	2	3	4	5	6
	8.00 – 8.48	8.48 – 9.36	9.40 – 10.28	10.28 – 11.16	11.20 – 12.08	12.08-12.56
MON	ADT-FVK	IE-NNK	FA-KRN	CA-SDD	MP-JSK	
TUE	MM-SDC	IE-NNK	FA-KRN	CA-SDD	ADT-FVK	
WED	MM-SDC	MP-JSK	FA-KRN	CA-SDD	IE-NNK	
THU	MM-SDC	MP-JSK	FA-KRN	CA-SDD	ADT-FVK	
FRI	MM-SDC	MP-JSK	IE-NNK	CA-SDD	ADT-FVK	
SAT	MM-SDC	MP-JSK	FA-KRN	IE-NNK	ADT-FVK	


Co-Ordinator
Dept. & Commerce (N.G.)
Dr. Punit N. Raut
Assistant Professor
Nabira Mahavidyalaya, Katol


Dr. G. K. Khorgade
H. O. D
Dept. of Commerce

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the teacher : **Dr. R. G. Gongale** Dept. : Commerce
Subject/Paper : **Business Skills** Class : **B.Com. SEM- 1st**

Month	Unit	Topics to be covered
Aug.	Unit-I	Nature & Scope of Business
Sept.	Unit-II	Management and Administration
Oct.	Unit-III	Decision Making and Organization
Nov. & Dec.	Unit-IV	Direction, Co-Ordination, Leadership & Control

Subject/Paper : **Financial Markets Operation** Class : **B.Com. SEM- 2nd**

Month	Unit	Topics to be covered
Jan.	Unit-I	Financial Institution & Regulatory Bodies
Feb.	Unit-II	Capital Markets – Primary Markets
March.	Unit-III	Capital Markets – Secondary Markets
April.	Unit-IV	Money Markets



Signature of the teacher

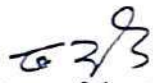
NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the teacher : **Dr. R. G. Gongale** Dept. : Commerce
Subject/Paper : **Financial Accounts-II** Class : **B.Com. SEM- 4th**

Month	Unit	Topics to be covered
Jan.	Unit-I	Final Accounts of Banking Company
Feb.	Unit-II	Final Accounts of General Insurance Company
March.	Unit-III	Valuation of Goodwill
April.	Unit-IV	Liquidation of Company

Subject/Paper : **Income Tax** Class : **B.Com. SEM- 4th**

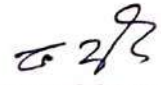
Month	Unit	Topics to be covered
Jan.	Unit-I	Introduction of Income Tax Residential Status & Tax Slab Deduction U/S 80 C to 80 U Tax Free allowance & perquisites
Feb.	Unit-II	Income From Salary
March.	Unit-III	Income from House Property
April.	Unit-IV	Income from Other Sources


Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2022-2023
To be submitted to the Teacher Appraisal Committee

Name of the teacher : **Dr. R. G. Gongale** Dept. : **Commerce**
Subject/Paper : **Auditing** Class : **B.Com. SEM- 5th**

Month	Unit	Topics to be covered
Aug.	Unit-I	i) Audit, Auditing and Auditor ii) Internal Control and Internal Audit System
Sept	Unit-II	i) Audit Planning, Evidence Audit programme ii) Audit Documentation and Evidence
Oct.	Unit-III	i) Standard on Auditing ii) Vouching & Verification
Nov., & Dec.	Unit-IV	i) Company Auditor ii) Company Audit iii) Audit Report and Certificate


Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL**PROFORMA OF TEACHING PLAN – 2022-23**

To be submitted to the Teacher Appraisal Committee

Name of the Teacher: Dr. Vaishali R. Ruikar

Dept.: Commerce

Month	Class	Subject	Topics to be covered
Aug.	B.Com. I Sem.	FAC	An Overview of Basic of Book-Keeping and Accountancy. Rules of Double Entry Account System. Preparation of Journal.
	B.Com. I Sem.	B/E	Introduction to Economics
	B.Com. V Sem.	I/E	Indian Economy & Planning .
	M.Com. SEM I	M/E	Nature and Scope of Managerial Economics, Micro and Macro Economic Analysis.
Sept.	B.Com. I Sem.	FAC	Preparation of Journal ,Cash Book, Trial Balance & Annual Accounts Of Sole Traders. Accounting Concepts & Conventions. .
	B.Com. I Sem.	B/E	Demand Analysis and Demand Forecasting
	B.Com. V Sem.	I/E	Indian Economy & Policy .
	M.Com. SEM. I	M/E	Demand and Demand Analysis, Demand Forecasting, Theory of Production.
Oct.	B.Com. I Sem.	FAC	Accounting Standards: Introduction, Need & Objectives, AS I to AS 10, Accounting Policies and their Discloser. Branch Accounts.
	B.Com. I Sem.	B/E	Demand Forecasting .
	B.Com. V Sem.	I/E	Population & Unemployment.
	M.Com. SEM.I	M/E	Cost and Revenue Analysis, Market Structure Pricing Method and Policies
Diwali Vacation 20 Oct. 2022 to 30 Oct. 2022			
Nov.	B.Com. I Sem.	FAC	Accounts Co-operative Societies (Preparation of Cash book and Trading, Profit & Loss Accounts and Balance Sheet)
	B.Com. I Sem.	B/E	Supply and Production Analysis.
	B.Com. V Sem.	I/E	India's Public Finance.
	M.Com. SEM.I	M/E	Business Cycle, Inflation and Deflation, Monetary And Fiscal Policy, Sustainable Development, Consumption and Inclusive Growth.
Winter Vacation 25 Nov. 2022 to 7 Dec. 2022			
Dec.	B.Com. I Sem.	FAC	Accounts Co-operative Societies (Preparation of Cash book and Trading, Profit & Loss Accounts and Balance Sheet)
	B.Com. I Sem.	B/E	Supply and Production Analysis. .
	B.Com. V Sem.	I/E	India's Public Finance.
	M.Com. SEM.I	M/E	Business Cycle, Inflation and Deflation, Monetary And Fiscal Policy, Sustainable Development,

Consumption and Inclusive Growth.

Jan.	B.Com. II Sem. B.Com. VI Sem. B.Com. VI Sem. M.Com. II Sem.	B/E I/E HRM COP	Market Structure. Indian Agriculture, Introduction of Human Resource Management. Co-Operation Meaning, Principle of Co-Operation optional Principle And Co. Operative Movement.
Feb.	B.Com. II Sem. B.Com. VI Sem. B.Com. VI Sem. M.Com. II Sem.	B/E I/E HRM COP	Cost Analysis Indian Industry. Recruitment Selection and Training. Co-Operative Credit Institution in India.
Mar.	B.Com. II Sem. B.Com. VI Sem. B.Com. VI Sem. M.Com. II Sem.	B/E I/E HRM COP	Pricing Concepts. Indian Service Sector and Indian International Trade. Labour Welfare and Collective Bargaining. Cooperative & Rural Economy.
Apr.	B.Com. II Sem. B.Com. VI Sem. B.Com. VI Sem. M.Com. II Sem.	B/E I/E HRM COP	Introductory Macroeconomics. Contribution of Indian Economic Thinkers. Human Resource Planning and Accounting. Globalization and Cooperation.



DR. Vaishali B. Itikar

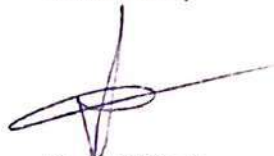
Nabira Mahavidyalaya, Katol

Teaching Plan Session 2022-23

Name of Teacher: Dr. Punit Raut

Department of Commerce

Month	Class	Subject	Topics to be cover
Jan.	B. Com. V	F/A Unit I	Holding Company
	B. Com. V	C/A Unit I	Budget and Budgetary Control
	M Com III	IDT Unit I	Meaning of Indirect Tax, Registration for GST.
Feb.	B. Com. V	F/A Unit II	Fire Insurance.
	B. Com. V	C/A Unit II	Budget and Budgetary Control
	M Com III	IDT Unit II	Types if GST, and Calculation
Mar.	B. Com. V	F/A Unit III	Investment Account
	B. Com. V	C/A Unit III	Ratio Analysis
	M Com III	IDT Unit III	Input and Output Tax Credit
Diwali Vacation 20 Octo. 2022 to 30 Octo. 2022.			
April	B. Com. V	C/A Unit IV	Fund Flow Statement
	B. Com V	F/A unit I	Profit Prior to Incorporation, Redemption of Pref. share Capital
	M Com III	IDT Unit IV	Custom Duty



Dr. Punit Raut


Nabira Mahavidyalaya, Katol

Teaching Plan Session 2022-23

Name of Teacher: Dr. Punit Raut

Department of Commerce

Month	Class	Subject	Topics to be cover
Aug	B. Com. V	F/A Unit I	Amalgamation & Absorption of Companies.
	B. Com. V	C/A Unit I	Cost sheet and Tender
	M Com III	D/T Unit I	Meaning of Direct Tax, Income from Profession
Sept.	B. Com. V	F/A Unit II	Reconstruction and Reorganization of Companies.
	B. Com. V	C/A Unit II	Process Costing
	M Com III	D/T Unit II	Capital Gains
Octo.	B. Com. V	F/A Unit III	Double Accounts
	B. Com. V	C/A Unit III	Contract Costing
	M Com III	D/T Unit III	Deductions U/S 80s
Diwali Vacation 20 Octo. 2022 to 30 Octo. 2022.			
Nov.	B. Com. V	C/A Unit IV	Reconciliation Statement
	B. Com V	F/A unit I	Fire Insurance Claims
	M Com III	D/T Unit IV	Service Accounting


Dr. Punit Raut

NABIRA MAHAVIDYALAYA, KATOL.

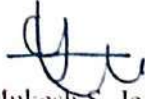
PROFORMA OF TEACHING PLAN – 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the teacher : Mukesh S. Jadhao Dept. : Commerce
Subject/Paper : Commercial Firm Class : B.Com. SEM- I

Month	Unit	Topics to be covered
Aug.	Unit-I - Commercial Firm	
Sept.	Unit-II - Sole Traders & Partnership Firm	
Oct.	Unit-III - Company	
		Diwali Vacation 20 Oct .2022 to 30 Oct.2022 Winter Vacation 25 Nov.2022 to 7 Dec. 2022
Nov. & Dec.	Unit-IV - Start Ups	

Subject/Paper : Commercial Services Class : B.Com. SEM- II

Month	Unit	Topics to be covered
Jan.	Unit-I - Commercial Services, Marketing Mix of Services	
Feb.	Unit-II - Aviation Services, Hospitality Services	
March.	Unit-II - Information Technology enabled Services	
April	Unit-III - Banking Services , General Insurance Services	


Mukesh S. Jadhao
Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL.

PROFORMA OF TEACHING PLAN – 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the teacher : Mukesh S. Jadhao

Dept. : Commerce

Class : B.Com. SEM- III

Month	Subject/Paper	Topics to be covered
Aug.	M/E-I:- Unit-I :- Money BCM:- Unit-I :- Introduction - Communication	
Sept.	M/E-I:- Unit-II :- Inflation and Deflation BCM :- Unit-II :- Business Communication	
Oct.	M/E-I :- Unit-III:- Money Market and Policy BCM :- Unit-III :- Technology & Business Communication	
	Diwali Vacation 20 Oct .2022 to 30 Oct.2022 Winter Vacation 25 Nov.2022 to 7 Dec. 2022	
Nov.& Dec.	M/E-I :- Unit-IV :- Public Finance BCM :- Unit-IV :- MS office Aided Communication	



Mukesh S. Jadhao
Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL.

PROFORMA OF TEACHING PLAN - 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the teacher : Mukesh S.Jadhao

Dept.: Commerce

Class : B.Com. SEM- IV

Month	Subject/Paper	Topics to be covered
Jan.	S/D :- Unit-I :- Introduction	
Feb.	S/D :- Unit-II :- Communication Skills and Personality Development	
March	S/D :- Unit-III :- Techniques in Personality Development	
April	S/D :- Unit-IV :- Entrepreneurial Skill Development	


Mukesh S. Jadhao
Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL.

PROFORMA OF TEACHING PLAN – 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the teacher : Mukesh S.Jadhao

Dept. : Commerce

Class : B.Com. SEM- IV

Month	Subject/Paper	Topics to be covered
Jan.	M/E-II:- Unit-I :-	Commercial Banking
Feb.	M/E-II:- Unit-II :-	Banking and Core Banking
March.	M/E-II:- Unit-III :-	Banks and Customers Relationship and Services
April	M/E-II:- Unit-IV:-	Central Bank


Mukesh S. Jadhao
Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL.

PROFORMA OF TEACHING PLAN – 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the teacher : Mukesh S. Jadhao

Dept. : Commerce

Class : B. Com. SEM- V

Subject : Marketing Management

Month

Topics to be covered

Aug.

Unit-I

Introduction

Sept.

Unit-II

Market and Pricing Policy

Oct.

Unit-III

Product Planning and Distribution

Diwali Vacation 20 Oct .2022 to 30 Oct.2022

Winter Vacation 25 Nov.2022 to 7 Dec. 2022

Nov.& Dec.

Unit-IV

Consumer Behavior and Promotion



Mukesh S. Jadhao
Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL.

PROFORMA OF TEACHING PLAN – 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the teacher : Mukesh S. Jadhao

Dept. : Commerce

Class : B.Com. SEM- V

Subject : Management Process

Month	Topics to be covered	
Aug.	Unit-I	Management and Administration
Sept	Unit-II	Managerial Development & Group Dynamics:
Oct.	Unit-III	Managerial Style
Diwali Vacation 20 Oct .2022 to 30 Oct.2022 Winter Vacation 25 Nov.2022 to 7 Dec. 2022		
Nov.& Dec.	Unit-IV	Motivation, Relationship between motivation and Productivity.


Mukesh S. Jadhao
Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL.

PROFORMA OF TEACHING PLAN - 2022-23

To be submitted to the Teacher Appraisal Committee

Name of the teacher : Mukesh S. Jadhao

Dept. : Commerce

Class : B.Com. SEM- VI

Subject : Industrial Law

Month	Topics to be covered
Jan.	Unit-I :- Indian Factory Act 1948, Industrial Dispute Act 1947
Feb.	Unit-II :- Wages Act 1948, Payment of Wages Act 1936, Bonus Act 1965, The Employee State Insurance Act 1948
March	Unit-II :- Workmen Compensation Act 1923, Maternity Benefits Act 1961 Unit-III :- Child Labour Act 1986, Trade Union Act 1926
April	Unit-IV :- Environment Protection Act 1986, Industrial Estate, Intellectual Property Rights Law in India



Mukesh S. Jadhao
Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN - 2022-23

Name of the Teacher : G. K. Khorgade Dept. : Commerce
Subject/Paper : SBM Class : B.Com.I-Sem.-II
(Statistics and Business Mathematics)

Month	Topics to be covered
January	<ul style="list-style-type: none">* Descriptive Statistics* Statistical Data Collection* Presentation of Statistical Data
February	Statistical Averages: <ul style="list-style-type: none">* Mean* Median* Mode* Geometric Mean* Harmonic Mean
March	Dispersions : <ul style="list-style-type: none">* Quartile Deviation* Standard Deviation* Co-efficient of Variation
April	<ul style="list-style-type: none">* Co-efficient of Skewness: Karl Pearson's Co-efficient of Skewness Bowley's Co-efficient of Skewness* Business Mathematics: Ratio and Proportions Profit and Loss Percentages Simple and Compound Interest
May	<ul style="list-style-type: none">* Revision


Signature

NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN - 2022-23

Name of the Teacher :

G. K. Khorgade

Dept.: Commerce

Subject/Paper :

AS

Class: B.Com.III-Sem-VI

(Advanced Statistics)

Month

Topics to be covered

January

- * Correlation :
Karl Pearson's Co-efficient of Correlation

February

- * Correlation:
Probable Error
Limit of Correlation
Testing Significance of Correlation
Spearman's Rank Co-efficient of Correlation

March

- * Time Series Analysis :
Free Hand Method
Semi Average Method
Moving Average Method
Least Square Method
- * Regression Analysis

April

- * Index Number :
Unweighted Index
Weighted Index
Cost of Living Index
Time Reversal Test
Factor Reversal Test

May

- * Revision


Signature

NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN - 2022-23

Name of the Teacher : G. K. Khorgade Dept. : Commerce
Subject/Paper : Advanced Financial Accounting Class : M. Com. Sem.-I

Month

Topics to be covered

August

- * Accounting Standards (Theory)
- * Computer Software Accounting (Theory)
- * Company Statutory Records (Theory)
- * New Trends in Accounting (Theory)
- Inflation Accounting
- Human Resource Accounting
- Social Accounting
- Lease Financing

September

- * Fire Insurance Claims :
Loss of Stock
Loss of Profit
- * Hire Purchase Accounting :
Re-possession
Hire Purchase Stock and Debtors Method

October

- * Internal and External Reconstruction of the Company
- * Amalgamation and Absorption of the Company

November

- * Accounts of Holding Companies


Signature

NABIRA MAHAVIDYALAYA, KATOL
TEACHING PLAN - 2022-23

Name of the Teacher : G. K. Khorgade Dept. : Commerce
Subject/Paper : Advanced Cost Accounting Class : M. Com. SEM-II

Month	Topics to be covered
January	<ul style="list-style-type: none">* Methods of Cost (Theory)* Cost Audit (Theory)* Cost Control, Cost Reduction, Control System and Reporting (Theory)
February	<ul style="list-style-type: none">* Contract Costing : Profit on Complete & Incomplete Contract Contract running more than one year Two or more contracts running simultaneously Contract near to completion* Machine Hour Rate
March	<ul style="list-style-type: none">* Process Accounts : Abnormal loss and Abnormal gain Joint Product, Inter process profit Equivalent unit production
April	<ul style="list-style-type: none">* Operating Costing : Transport services - Trucks, Buses, Taxies, etc. Cinema Halls, Hotels & Restaurants Electricity services* Labour Hour Rate
May	<ul style="list-style-type: none">* Variance Analysis : Material Variances Labour Variances Overhead Variances


Signature

NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN - 2022-23

Name of the Teacher : G. K. Khorgade Dept. : Commerce
Subject/Paper : Advanced Management Account Class : M. Com. Sem.-III

Month	Topics to be covered
August	<ul style="list-style-type: none">* Meaning, Objectives, Functions, Importance of Management Accounting. (Theory)* Tools of Management Accounting. (Theory)* Fund Flow Analysis
September	<ul style="list-style-type: none">* Cash Flow Analysis* Break Even Analysis
October	<ul style="list-style-type: none">* Marginal Costing (Decision Making)* Ratio Analysis
November	<ul style="list-style-type: none">* Budes:<ul style="list-style-type: none">Flexible BudgetSales BudgetProduction Budget
December	<ul style="list-style-type: none">* Preparation, Analysis and Interpretation of Financial Statements,* Management Information System. (Theory)


Signature

NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN - 2022-23

Name of the Teacher : G. K. Khorgade Dept. : Commerce
Subject/Paper : Statistical Techniques (S/T) Class : M. Com. Sem.-III

Month	Topics to be covered
August	* Interpolation & Extrapolation : Binomial Expansion Method Newton's Method Lagrange's Method
September	* Association of Attributes * Chi-Square Test
October	* Sampling & Test of Significance * Small Samples - 'T' Test * Analysis of Variance - 'F' Test
November	* Probability
December	* Statistical decision (Theory) * Statistical quality control (Theory)


Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the teacher: **Jayant S. Kalambhe**

Department of Commerce

Month	Class	Subject/Paper	Topics to be covered
Aug.	B.Com.Sem.-I	B/E-I	Unit-I - Introduction to Economics
	B.Com.Sem.-I	F/A-I	Unit-I - Basic of Financial Accounting
	B.Com.Sem.-III	M/E-I	Unit-I - Money
	B.Com.Sem.-V	M/P	Unit-I - Management & Administration
Sept.	B.Com.Sem.-I	B/E-I	Unit-II - Demand Analysis
	B.Com.Sem.-I	F/A-I	Unit-II - Financial Account of Sole Trader
	B.Com.Sem.-III	M/E-I	Unit-II - Inflation & Deflation
	B.Com.Sem.-V	M/P	Unit-II - Managerial Develop & Group Dynamics
Oct.	B.Com.Sem.-I	B/E-I	Unit-III - Demand Forecasting
	B.Com.Sem.-I	F/A-I	Unit-III: - Branch Accounting
	B.Com.Sem.-III	M/E-I	Unit-III - Money Market & Policies
	B.Com.Sem.-V	M/P	Unit-III- Managerial Style

Diwali Vacation: 20 Oct. 2022 to 30 Oct. 2022

Nov.	B.Com.Sem.-I	B/E-I	Unit-IV - Supply & Production Analysis
	B.Com.Sem.-I	F/A-I	Unit-IV - Final Accounts of Co-op. Society
	B.Com.Sem.-III	M/E-I	Unit-IV - Public Finance
	B.Com.Sem.-V	M/P	Unit-IV - Motivation

Winter Vacation: 25 Nov. 2022 to 07 Dec. 2022

Month	Class	Subject/Paper	Topics to be covered
Dec.	B.Com.Sem.-I	B/E-I	Unit-IV - Supply & Production Analysis
	B.Com.Sem.-I	F/A-I	Unit-IV - Final Accounts of Co-op. Society
	B.Com.Sem.-III	M/E-I	Unit-IV - Public Finance
	B.Com.Sem.-V	M/P	Unit-IV - Motivation
Jan.	B.Com.Sem.-II	B/E -II	Unit-I - Cost Analysis
	B.Com.Sem.-II	SBM	Unit-I - Stat. & Measures of Central Tendency
	B.Com.Sem.-IV	M/E-II	Unit-I - Commercial Banking
	B.Com.Sem. -VI	A/S	Unit-I - Correlation
Feb.	B.Com.Sem.-II	B/E -II	Unit-II - Market Structure
	B.Com.Sem.-II	SBM	Unit-II - Dispersion
	B.Com.Sem.-IV	M/E-II	Unit-II - E-Banking
	B.Com.Sem.-VI	A/S	Unit-II - Regression
Mar.	B.Com.Sem.-II	B/E -II	Unit-III - Pricing Concepts
	B.Com.Sem.-II	SBM	Unit-III - Skewness
	B.Com.Sem.-IV	M/E-II	Unit-III - Bank&Costumers Relations & Service
	B.Com.Sem.-VI	A/S	Unit-III - Index Number
Apr.	B.Com.Sem.-II	B/E -II	Unit-IV - Introductory Macroeconomics
	B.Com.Sem.-II	SBM	Unit-IV - Business Mathematics
	B.Com.Sem.-IV	M/E-II	Unit-IV - Central Bank
	B.Com.Sem.-VI	A/S	Unit-IV - Time Series Analysis



Jayant Kalambe

Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2022-23
 To be submitted to the Teacher Appraisal Committee

Name of the teacher: **Priyanka P. Bagadade.** Department of Commerce

Month	Class	Subject/Paper	Topics to be covered
Sept.	M.Com.Sem.-I	M/E (Eng)	Unit-I – Managerial Economics.
	M.Com.Sem.-I	M/M (Eng)	Unit-I – Nature & Scope of Marketing.
	M.Com. Sem.-I	IFS (Eng)	Unit-I – Components of formal financial system.
Oct.	M.Com.Sem.-I	M/E (Eng)	Unit-II – Demand Analysis
	M.Com.Sem.-I	M/M (Eng)	Unit-II – Marketing Information System & Marketing Research.
	M.Com.Sem.-I	IFS (Eng)	Unit-II – Banking.

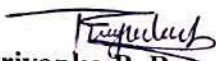
Diwali Vacation: 20 Oct. 2022 to 30 Oct. 2022

Nov.	M.Com.Sem.-I	M/E (Eng)	Unit-II – Demand Analysis
	M.Com.Sem.-I	M/M (Eng)	Unit-II- Marketing Information System & Marketing Research.
	M.Com.Sem.-I	IFS (Eng)	Unit-II- Banking.

Winter Vacation: 25 Nov. 2021 to 07 Dec. 2021

Dec.	M.Com.Sem.-I	M/E (Eng)	Unit-III – Production.
	M.Com.Sem.-I	M/M (Eng)	Unit-III– Production Decision/ Promotion Decesion.
	M.Com.Sem.-I	IFS (Eng)	Unit-III– Insurance.
Jan.	M.Com.Sem.-I	M/E (Eng)	Unit-IV – Marketing Structure/ Business Cycle.
	M.Com.Sem.-I	M/M (Eng)	Unit-IV – Vertical Marketing Implementation And Systems.
	M.Com.Sem.-I	IFS (Eng)	Unit-IV – Capital Market.

Month	Class	Subject/Paper	Topics to be covered
Jan.	B.com.Sem-IV	M/E(Eng)	Unit-I- Commercial Banking.
	B.com.Sem-VI	M/A(Eng)	Unit-I-Management Accounting.
Feb.	B.com.Sem-IV	M/E(Eng)	Unit-II- Banking & Core Banking.
	B.Com.Sem-VI	M/A(Eng)	Unit-II- Business Budget & Budgetory Control.
	M.Com.Sem.-II	Cooperation(Eng)	Unit-I- Introduction of Cooperation.
	M.Com.Sem.-II	RM(Eng)	Unit-I – Introduction Research.
	M.Com.Sem.-II	HRM(Eng)	Unit-I - Human Factor in Organization.
	Mar.	B.com.Sem-IV	M/E(Eng)
B.Com.Sem-VI		M/A(Eng)	Unit-III- Ratio Analysis.
M.Com.Sem.-II		Cooperation(Eng)	Unit-II - Cooperative Credit Institution in India.
M.Com.Sem.-II		RM(Eng)	Unit-II – Research Design.
M.Com.Sem.-II		HRM(Eng)	Unit-II- Recruitment and Selection. Promotion and Transfers.
Apr.		B.com.Sem-IV	M/E(Eng)
	B.Com.Sem-VI	M/A(Eng)	Unit-IV- Fund Flow Analysis.
	M.Com.Sem.-II	Cooperation(Eng)	Unit-III- Cooperatives & Rural Economy.
			Unit-IV- Globalization & Cooperation.
	M.Com.Sem.-II	RM(Eng)	Unit-III- Collection and Processing data.
			Unit-IV- Report writing.
	M.Com.Sem.-II	HRM(Eng)	Unit-III- Job Evaluation and Job Design.
			Unit-IV- Employee Remuneration and Wage Legislation


Priyanka P. Bagadade.
 Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2022-23

To be submitted to the Teacher Appraisal Committee

Name of the teacher: **Nikita N. Kumeriya**

Department of Commerce

Month	Class	Subject/Paper	Topics to be covered
Aug.	B.Com.Sem.-I	B/S	Unit-I – Nature & Scope of Business.
	B.Com.Sem.-V	I/E-1	Unit-I – Indian Economic & Planning.
Sept.	B.Com.Sem.-I	B/S	Unit-II – Management & Administration.
	B.Com.Sem.-V	I/E-1	Unit-II – Indian Economy & Policy.
Oct.	B.Com.Sem.-I	B/S	Unit-III – Decision Making.
	B.Com.Sem.-V	I/E-1	Unit-III- Population & Unemployment.

Diwali Vacation: 20 Oct. 2022 to 30 Oct. 2022

Nov.	B.Com.Sem.-I	B/S	Unit-III – Decision Making.
	B.Com.Sem.-V	I/E-1	Unit-III – Population & Unemployment.

Winter Vacation: 25 Nov. 2021 to 07 Dec. 2021

Dec.	B.Com.Sem.-I	B/S	Unit-IV – Direction.
	B.Com.Sem.-V	I/E-1	Unit-IV - India's Public Finance.

Month	Class	Subject/Paper	Topics to be covered
Jan.	B.Com.Sem.-II	FMO	Unit-I – Financial institutions and regulatory bodies.
	B.Com.Sem, VI	I/E-II	Unit-I – Indian Agriculture
Feb.	B.Com.Sem.-II	FMO	Unit-II – Capital Market- Primary Market.
	B.Com.Sem.-VI	I/E-II	Unit-II – Indian Industry.
Mar.	B.Com.Sem.-II	FMO	Unit-III – Secondary Market.
	B.Com.Sem.-VI	I/E-II	Unit-III – Indian Service Sector and International Trade.
Apr.	B.Com.Sem.-II	FMO	Unit-IV – Money Market.
	B.Com.Sem.-VI	I/E-II	Unit-IV – Contribution of Indian Economic Thinkers.



N.N.Kumeriya.

Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the teacher: **Falguni V. Kathole.**

Department of Commerce

Month	Class	Subject/Paper	Topics to be covered
Aug.	B.Com.Sem.-II	BCM	Unit-I – Introduction Communication.
	B.Com.Sem.-V	Auditing	Unit-I – Basic of Auditing.
Sept.	B.Com.Sem.-II	BCM	Unit-II – Business Communication.
	B.Com.Sem.-V	Auditing	Unit-II – Audit Working and Procedure.
Oct.	B.Com.Sem.-II	BCM	Unit-III – Technology and Business Communication.
	B.Com.Sem.-V	Auditing	Unit-III- Standard on Auditing, Voching & Verification, Verification of Asset & Liability.

Diwali Vacation: 20 Oct. 2022 to 30 Oct. 2022

Nov.	B.Com.Sem.-II	BCM	Unit-III – Technology and Business Communication.
	B.Com.Sem.-V	Auditing	Unit-III – Standard on Auditing, Voching & Verification, Verification of Asset & Liability.

Winter Vacation: 25 Nov. 2021 to 07 Dec. 2021

Dec.	B.Com.Sem.-II	BCM	Unit-IV – MS -Office Aided Communication.
	B.Com.Sem.-V	Auditing	Unit-IV - Company Audit & Audit Report .

Month	Class	Subject/Paper	Topics to be covered
Jan.	B.Com.Sem.-III	Skill Development	Unit-I – Introduction of Skill Development.
	B.Com.Sem. VI	Industrial Law	Unit-I – Indian Factories Act.
Feb.	B.Com.Sem.-III	Skill Development	Unit-II - Communication Skills and Personality Development.
	B.Com.Sem.-VI	Industrial Law	Unit-II – Law Relating to Wages.

Month	Class	Subject/Paper	Topics to be covered
Mar.	B.Com.Sem.-III	Skill Development	Unit-III – Techniques in Personality Development.
	B.Com.Sem.-VI	Industrial Law.	Unit-III – Child Labour Act 1986
Apr.	B.Com.Sem.-III	Skill Development.	Unit-IV – Entrepreneurial Skill Development.
	B.Com.Sem.-VI	Industrial Law.	Unit-IV – Meaning and Nature of Industrial Estate.


Falguni Kathole

Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2022-23
 To be submitted to the Teacher Appraisal Committee
 Department of commerce

Month	Class	Unit	Topic to be covered
Aug.	Sem-1	Unit I	Commercial firms
	Sem-5	Unit I	Marketing management
Sept.	Sem-1	Unit II	Sole trader
	Sem-5	Unit II	Market and pricing policies
Oct.	Sem-1	Unit III	Company
	Sem-5	Unit III	Product planning and distribution
Diwali vacation : 20 Oct 2022 to 30 Oct 2022			
Nov.	Sem-1	Unit IV	Start ups
	Sem-5	Unit IV	Consumer Behavior and Promotion.
Winter vacation : 25 Nov 2022 to 07 Dec. 2022			
Dec.	Sem-1	Unit V	Start ups
	Sem-5	Unit IV	Consumer Behavior and Promotion.
Jan.	Sem-2	Unit I	Commercial services marketing mix of services
	Sem-6	Unit I	Human resource management
Feb.	Sem-2	Unit II	Aviation services, Hospitality services

	Sem-6	Unit II	Recruitment, selection and Training
March	Sem-2	Unit III	Information Technology Enabled services
	Sem-6	Unit III	Labour welfare and collective Bargaining
April	Sem-2	Unit IV	Banking services and general Insurance services
	Sem-6	Unit IV	Human resources planning And accounting



Subject Teacher

Mrs. S. D. Chandak

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2022-23
 To be submitted to the Teacher Appraisal Committee

Name of the teacher: **Dr. Komal R. Nabira**

Department of Commerce

Month	Class	Subject/Paper	Topics to be covered
Sept.	M.Com.Sem.-I	M/M (Mar)	Unit-I – Nature & Scope of Marketing.
	M.Com. Sem.-I	IFS (Mar)	Unit-I – Components of formal financial system.
Oct.	M.Com.Sem.-I	M/M (Mar)	Unit-II – Marketing Information System & Marketing Research.
	M.Com.Sem.-I	IFS (Mar)	Unit-II – Banking.
Diwali Vacation: 20 Oct. 2022 to 30 Oct. 2022			
Nov.	M.Com.Sem.-I	M/M (Mar)	Unit-II- Marketing Information System & Marketing Research.
	M.Com.Sem.-I	IFS (Mar)	Unit-II- Banking.
Winter Vacation: 25 Nov. 2021 to 07 Dec. 2021			
Dec.	M.Com.Sem.-I	M/M (Mar)	Unit-III- Production Decision/ Promotion Decision.
	M.Com.Sem.-I	IFS (Mar)	Unit-III- Insurance.
Jan	M.Com.Sem.-I	M/M (Mar)	Unit-IV – Vertical Marketing Implementation And Systems.
	M.Com.Sem.-I	IFS (Mar)	Unit-IV – Capital Market.

Month	Class	Subject/Paper	Topics to be covered
Feb.	M.Com.Sem.-II	RM(Mar)	Unit-I = Introduction of research
	M.Com.Sem.-II	HRM(Mar)	Unit-I = Human Factor in Organization.
Mar.	M.Com.Sem.-II	RM(Mar)	Unit-II = Research design
	M.Com.Sem.-II	HRM(Mar)	Unit-II= Recruitment and Selection. Promotion and Transfers.
Apr.	M.Com.Sem.-II	RM(Mar)	Unit-III- Collection of data.
	M.Com.Sem.-II	HRM(Mar)	Unit-III- Job Evaluation and Job Design.
May.	M.Com.Sem.-II	RM(Mar)	Unit-IV- Report writing
	M.Com.Sem.-II	HRM(Mar)	Unit-IV- Employee Remuneration and Wage Legislation.

Rubina

Dr.Komal R. Nabira

Signature of the teacher

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the Teacher: Dr. K.R.Nabira Dept. : Commerce
Subject/Paper : Financial Accounting (FAC) Class : B. Com. II
(English)

Month	Topics to be covered
August	Unit-I : * consignment account
September	Unit-II: * Hire purchase system
October	Unit-III : * floatation of company
Diwali Vaccation(20 oct 2022 to 30 oct 2022)	
November	Unit-IV : * final accounts of joint stock company
Winter Vaccation(25 nov 2022 to 07 dec 2022)	
December	Unit VI: * final accounts of joint stock company
December	Unit-I : * Final accounts of banking company
January	unit I : * Final accounts of banking company
Febuary	Unit-II : * Final accounts of general insurance company
March	Unit-III : * valuation of goodwill
April	Unit-IV : * liquidation of company


Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2022-23
To be submitted to the Teacher Appraisal Committee

Name of the Teacher: Dr. K.R.Nabira Dept. : Commerce
Subject/Paper : Financial Accounting (FAC) Class : B. Com. III
(English)

Month	Topics to be covered
August	Unit-I : * Amalgamation of Joint Stock Companies * Absorption of Joint Stock Companies
septmber	Unit-II: * Reconstruction and Reorganization of Joint Stock Companies
October	Unit-III : * Valuation of shares Diwali Vaccation(20 oct 2022 to 30 oct 2022)
November	Unit-IV : * Double Entry System(Electricity) Winter Vaccation(25 nov 2022 to 07 dec 2022)
December	Unit VI: * Gas and water supply
December	Unit-I : * Accounts of holding company
January	unit I : * Accounts of holding company
Febuary	Unit-II : * insurance claims
March	Unit-III : * investment accounts
April	Unit-IV : * profit prior to incorporation


Signature

NABIRA MAHAVIDYALAYA – KATOL

PHYSICAL EDUCATION DEPARTMENT

TIME TABLE FOR THE YEAR 2022 – 2023

(Girls)

Sr. No.	Day	Games & Sports 6.00 to 6.48 am	P.T. 6.48 to 7.36 am	Administrative 10.30 to 12.30 pm	P.T. 3.00 to 3.48 pm	P.T. 3.48 to 4.36 pm	P.T. 4.36 to 5.24 pm	Games & Sports 5.24 to 6.12 pm	Games & Sports 6.12 to 7.00 pm
1	Mon.	Yogasan	B.Sc. - I	Admin. Work	B.A.- I A	B.A. – I B	B.Com.- I	Ball-Badminton	Kabaddi
2	Tue.	Cross Country	B.Sc. - II	Admin. Work	B.A. – II A	B.A. – II B	B.Com.- II	Kho-Kho	Table Tennis Boxing
3	Wed.	Yogasan	B.Sc. - I	Admin. Work	B.A. – I A	B.A. – I B	B.Com.- I	Kho-Kho	Athletics /WB
4	Thu.	Cross Country	B.Sc. - II	Admin. Work	B.A. – II A	B.A. – II B	B.Com. -II	Hand Ball	Kabaddi
5	Fri.	Yogasan	B.Sc. - I	Admin. Work	B.A. – I A	B.A. – I B	B.Com. -I	Ball Badminton	Table Tennis Boxing
6	Sat.	Cross Country	B.Sc. - II	Admin. Work	B.A. – II A	B.A. – II B	B.Com.- II	Hand Ball	Athletics/WB

(Boys)

Sr. No.	Day	Games & Sports 6.00 to 6.48 am	P.T. 6.48 to 7.36 am	Administrative 10.30 to 12.30 pm	P.T. 3.00 to 3.48 pm	P.T. 3.48 to 4.36 pm	P.T. 4.36 to 5.24 pm	Games & Sports 5.24 to 6.12 pm	Games & Sports 6.12 to 7.00 pm
1	Mon.	Yogasan	B.Sc. - I	Admin. Work	B.A.- I A	B.A. – I B	B.Com.- I	Ball Badminton Volleyball	Chess /Malkham
2	Tue.	Cross Country	B.Sc. - II	Admin. Work	B.A. – II A	B.A. – II B	B.Com.- II	Ball-Badminton	Chess/Malkham
3	Wed.	Yogasan	B.Sc. - I	Admin. Work	B.A. – I A	B.A. – I B	B.Com.- I	Kho-Kho	Kabaddi
4	Thu.	Cross Country	B.Sc. - II	Admin. Work	B.A. – II A	B.A. – II B	B.Com. -II	Hand Ball	Athletics/ WB
5	Fri.	Yogasan	B.Sc. - I	Admin. Work	B.A. – I A	B.A. – I B	B.Com. -I	KhoKho/Volleyball	Kabaddi/ Volleyball
6	Sat.	Cross Country	B.Sc. - II	Admin. Work	B.A. – II A	B.A. – II B	B.Com.- II	Hand Ball	Athletics/ WB

Note :- A) As per ordinance no.3 each section is Three periods per week x 8 = 24 periods.

B) Games & Sport practices per day 3 periods x 6 = 18 periods.

C) Administrative work Two hour per day 2 x 6 =12 periods.

Head of Department

Principal

NABIRA MAHAVIDYALAYA, KATOL

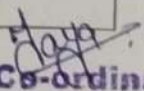
PROFORMA OF ACTION PLAN- 2022-23

To be submitted to the Teacher Appraisal Committee

Name of Head : Prof. Jayashree Patil

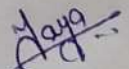
Dept.: BBA

Month	Topics to be covered
July	Orientation program for first year Bridge course
August	Guest Lecture – series of success stories Seminar
September	Management games Survey on given topics Work Shop
October	Guest Lecture Class test on syllabus covered viva voce for semester I, III, V
November	Guest lecture Work Shop
December	Presentation on given topic Group discussion
January	BBA day celebration Basic interview skills
February	Guest Lecture Management Games
March	Class test on syllabus covered viva voce for semester II, IV, VI


Head / Co-ordinator
Dept. of BBA
Nabira Mahavidyalaya, Katol
HOD

NABIRA MAHAVIDYALAYA, KATOL
BBA DEPARTMENT
TIME TABLE (2022-23)

		I	II		III	IV
		8.10 AM TO 08.58 AM	08.58 AM TO 09.46 AM		09.56 AM TO 10.44 AM	10.44 AM TO 11.32 AM
MON	II SEM	EM	ENG	RECESS (10 MINUTES)	C/AC	FBM JA
	IV SEM	-	HRM		ISP	MBF
	VI SEM	-	FM I		FM II	-
TUE	II SEM	ENG	EM		HHT	FBM PR
	IV SEM	MBF	BL		-	ISP
	VI SEM	-	FM I		FM II	-
WED	II SEM	C/AC	ENG		HHT	EM
	IV SEM	-	HRM		MBF	BL
	VI SEM	-	FM I		FM II	-
THU	II SEM	ENG	HHT		C A/C	FBM PR
	IV SEM	HRM	BL		ISP	-
	VI SEM	-	FM I		FM II	-
FRI	II SEM	-	ENG		HHT	C/AC
	IV SEM	BL	ISP		MBF	HRM
	VI SEM	-	FM I	FM II	-	
SAT	II SEM	ENG	C/AC	FBM JA	FBM PR	
	IV SEM	MBF	HRM	ISP	BL	
	VI SEM	PROJECT		PROJECT		


Head / Co-ordinator
 Dept. of BBA
 Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL
BBA DEPARTMENT
TIME TABLE (2022-23)

		I	II		III	IV	V
		8.10 AM TO 08.58 AM	08.58 AM TO 09.46 AM		09.56 AM TO 10.44 AM	10.44 AM TO 11.32 AM	11.32 AM TO 12.20 NOON
MON	I SEM	EOB	F A/C	RECESS (10 MINUTES)	AD	FME	-
	III SEM	PFM	EM		BST	MF	EBCG
	V SEM	ED	MF		RM	IBM	-
TUE	I SEM	EOB	F A/C		AD	FME	ENG
	III SEM	PFM	EBCG		EM	MF	-
	V SEM	ED	POM		RM	IBM	-
WED	I SEM	ENG	EOB		AD	FME	-
	III SEM	PFM	EBCG		BST	MF	-
	V SEM	MF	RM		ED	POM	IBM
THU	I SEM	MF	EOB		F A/C	AD	ENG
	III SEM	PFM	EBCG		BST	EM	-
	V SEM	POM	RM		MF	ED	-
FRI	I SEM	ENG	FME		AD	F A/C	-
	III SEM	MF	EM		BST	EBCG	-
	V SEM	POM	IBM		RM	ED	MF
SAT	I SEM	ENG	MF		F A/C	EOB	FME
	III SEM	MF	EM		BST	PFM	-
	V SEM	POM	IBM		MF	ED	-

FIRST SEMESTER		THIRD SEMESTER		FIFTH SEMESTER	
ENGLISH (Prof. J. G. Alone)	PFM	PRINCIPLES OF FINANCIAL MANAGEMENT (Dr. P. S. Rewatkar)	ED	ENTREPRENEURSHIP DEVELOPMENT (Prof. J. G. Alone)	
EVOLUTION OF BUSINESS (Prof. J. M. Patil)	BST	BASIC STATISTICAL TECHNIQUE (Prof. J. M. Patil)	POM	PRINCIPLES OF OPERATIONS MANAGEMENT (Prof. J. M. Patil)	
APTITUDE DEVELOPMENT	EB&CG	EVOLUTION OF BUSINESS & COMMERCIAL GEOGRAPHY (Prof. J. G. Alone)	IBE	INTERNATIONAL BUSINESS ENVIRONMENT (Prof. J. G. Alone)	
FINANCIAL ACCOUNTING USING TALLY (Dr. P. S. Rewatkar)	EM	ENVIRONMENT MANAGEMENT (Prof. J. M. Patil)	RM	RESEARCH METHODOLOGY (Dr. P. S. Rewatkar)	
FOUNDATIONS OF MANAGERIAL EFFECTIVENESS (Dr. P. S. Rewatkar)					

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Department of BBA

Session -2022-23

Syllabus Completion Review

As per established practice of the department the syllabus completion Review meeting was called on 14 March 2023 as discussed following progress is noted

Subjects	Semester	Name of Teacher	Percentage syllabus covered	Signature
SOC	II	Prof.J.M.Patil	100 %	Jaya
ES	II	Prof.J.M.Patil	100 %	Jaya
IS & IP	IV	Prof.J.M.Patil	100 %	Jaya
HRM	IV	Prof.J.M.Patil	100 %	Jaya
ENG	II	Prof.J.G.Alone	100 %	Jaya
FBM	II	Prof.J.G.Alone	100 %	Jaya
BL	IV	Prof.J.G.Alone	100 %	Jaya
FM-II	VI	Prof.J.G.Alone	100 %	Jaya
CA	II	Prof.P.S. Rewatkar	100 %	Jaya
FBM	II	Prof.P.S. Rewatkar	100 %	Jaya
MBF	IV	Prof.P.S. Rewatkar	100 %	Jaya
FM-I	VI	Prof.P.S. Rewatkar	100 %	Jaya
AD-II	II	M.C.Gondane	100 %	M.C. Gondane

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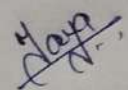
Name of Teacher : Prof. Jayashree Patil

Dept.: BBA

Subject / Paper : Evolution of Business

Class: BBA I Sem

Month	Topics to be covered
July	Evolution of Business & Economy. Industrial revolution. Rise of business. Impact of WWI. The Great Dipression.& its effect & its effect
August	Cold war , its impact on international business . Gulf war its impact on international business. Dawn of IT era & its mpcat.
September	Evolution of Indian Business.its changes & styles.. East india companys early ventures. Banking & Railways devlopmentin Inda . Indian Business & Economy.during WWI & WWII. Liberalisation of the Indian economy,1990s
October	Role of Industries in Indian economic development. Factors of industrial Location. WEbers Theory. Iron & Steel industries . Industry in India.


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Name of Teacher : Prof. Jitendra Alone

Dept.: BBA

Subject / Paper : English Class.: BBA 1st Sem

Month	Topics to be covered
Aug	Basic Grammar – Tense, Forms of the Verb, Preposition, Articles, Punctuation,
Sup	Single Word for a Group of Words, Sentence Construction, Comprehension.)Business Manners- Body Language, Gestures, Telephone etiquette, E-mail etiquette.
Oct	Prose Home coming Dr. Tapati Dey 2. The Lighthouse Keeper of Aspinwall –Henry Sienkiewicz 3. Ilyas-Leo Tolstoy
Nov	Prose - Social Media- Dr.Sujata Chakravorty 2. World of Advertising- Dr.Pranjali Kane 3. OYO -Reinventing Hospitality
Dec.	Business Letter Writing- Enquiries and replies, Placing and fulfilling orders , Complaints and follow-up letters , Sales letters, Circular letters, Application for employment and Resume.

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Name of Teacher : Prof. Pravin Rewatkar

Dept.: BBA

Subject / Paper : Fundamentals of Managerial Effectiveness

Class.: BBA 1st Sem

Month	Topics to be covered
August	Nature, function, definition and importance of management, purpose and scope of management, Functions of a manager, is management a science or art? Development of Management Thought -Scientific management. UNIT TEST 1
September	Management and administration, Management as a profession, Professionalism of management in India, UNIT TEST 2
October	Management ethics and management culture, Skills required of manager, Classification of skills, Methods of skills development. Concept of planning, objectives, Nature, Types of plan, Stages involved in planning. UNIT TEST 3
November	Group, Group Behaviour, Methods of decision making, Committee Decision Making.
December	Organisation -Concepts, Principle of organization, Importance, features of good organization structure, Types of Organisation structure. UNIT TEST 4


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Name of Teacher : Prof. Pravin Rewatkar

Dept.: BBA

Subject / Paper : Financial Accounting using Tally

class: BBA I Sem

Month	Topics to be covered
Aug	Introduction to Accounting, Introduction to Tally UNIT 1
September	Meaning, features and applicability of Tally, Company Creation, UNIT TEST 2
October	Company Configuration in Tally, Voucher Creation and Ledger Creation in Tally.
November	Introduction, to Display function of Tally, Balance Sheet Unit test 3 Practical Classes for Tally
December	Ratio Analysis in Tally, Data storage and backup in Tally. UNIT TEST 4


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Name of Teacher : Prof. Jitendra Alone

Dept.: BBA

Subject / Paper : English

Class.: BBA 2nd Sem

month	Topics to be covered
Dec	Prose - The Dispenser of Holy Water- Guy de Maupassant After Twenty Years-O.Henry The Wall- Dr.Sunilkumar Navin
Jan	Prose- 1.Beware, You are Being Tracked!- Dr.Supantho Bhattacharya 2.What is integrity? Subroto Bagchi 3.,Unsung Women Achievers of Contemporary India-Dr.Subhashree Mukherjee
Feb	1.Beware, You are Being Tracked!- Dr.Supantho Bhattacharya 2.What is integrity? Subroto Bagchi 3. Unsung Women Achievers of Contemporary India-Dr.Subhashree Mukherjee
March	Subject-Verb-Agreement / Concord of Nouns, Pronouns and Possessive Adjectives <input type="checkbox"/> Spotting errors and rewriting sentences correctly. <input type="checkbox"/> Synonyms & Antonyms , Words often confused.
April	

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Name of Teacher : Prof. Pravin Rewatkar

Dept.: BBA

Subject / Paper : Fundamentals of Business Management

Class.: BBA II Sem

Month	Topics to be covered
January	Nature, function, definition and importance of management, purpose and scope of management, Functions of a manager, is management a science or art? Development of Management Thought -Scientific management. UNIT TEST 1
February	Contribution of Taylor, Fayol, Mary Follet, Elton Mayo; Hawthorne experiments, Contingency approach. Management and administration, Management as a profession, Professionalism of management in India, UNIT TEST 2
March	Management ethics and management culture, Skills required of manager, Classification of skills, Methods of skills development. Concept of planning, objectives, Nature, Types of plan, Stages involved in planning. UNIT TEST 3
April	Characteristics of a good plan, Importance, Limitations of planning, Making planning effective, Strategic planning in Indian Industry. Concept, characteristics of decisions, Types of decisions, Steps Involved in decision making, Importance of decision making, Methods of decision making, Committee Decision Making.

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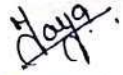
Name of Teacher : Prof. Jayashree Patil

Dept.: BBA

Subject / Paper : Sociology

Class: BBA II Sem

Month	Topics to be covered
December	Characteristics of sociology as science. Relationship of sociology with other social Disciplines.
January	Focus of studies in sociology- Groups, Importance & characteristics of group. In-groups, Out groups & reference groups
February	Culture & Society- Definition, meaning & characteristics of culture Material And non material culture Elements of culture
March	Socialisation- Definition, meaning & process. Agents of socialization. Stages of socialization.


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Name of Teacher : Prof. Jayashree Patil

Dept.: BBA

Subject / Paper : Environment Studies

Class: BBA II Sem

Month	Topics to be covered
December	Definition, scope, importance. Sustainable development Natural resources –renewable & non renewable resources Role of individual in conservation of natural resources.
January	Types of pollution Causes of pollution, effects and control measures. Global warming, green house effect. Ozone layer depletion. Acid rains.
February	Human population: Growth, population explosion- causes and impact Family welfare programs-methods of sterilization, infectious diseases. Water related diseases, Risk due to chemicals in food, cancer.
March	Social issues in environment- construction of dams. Environmental ethics Urban & rural equity issues, need for gender equity.

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Name of Teacher : Prof. Jayashree Patil

Dept.: BBA

Subject / Paper : Enviromental Management.

Class: BBA- III Sem

Month	Topics to be covered
December	Introduction -Definition, scope, importance. Sustainable development Natural resources –renewable &non renewable resources Role of individual in conservation of natural resources.
January	Pollution - Types of pollution Causes of pollution, effects and control measures. Global warming, green house effect. Ozone layer depletion. Acid rains.
February	Human population : Growth, population explosion- causes and impact Family welfare programs-methods of sterilization, infectious diseases. Water related diseases, Risk due to chemicals in food, cancer.
March	Social issues in environment - construction of dams. Environmental ethics Urban & rural equity issues, need for gender equity.


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To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof.: Jayashree Patil

Dept.: BBA

Subject / Paper : Basic Statistical Techniques

Class.: BBA III Sem

Month	Topics to be covered
July	Definition, functions, scope and role of statistics in business and importance of statistics. Classification of data, tabulation, frequency distribution, diagrams & graphs
Aug	Importance and requisites of a good statistical average, types of averages – arithmetic mean, median, mode, geometric mean, harmonic mean, weighted average, relationship amongst different averages.
September	Meaning and significance of dispersion, methods of measuring dispersion – range, quartile deviation, mean deviation, standard deviation and coefficient of skewness.
October	Definition of correlation, significance of correlation, types of correlation, merits and limitations of coefficient, Calculation of coefficient of correlation and probable error for simple series, calculation of coefficient of correlation and probable error for continuous series

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Name of Teacher : Prof. Jitendra Alone

Dept.: BBA

Subject / Paper : Evolution of Business & Commercial Geography

Class.: BBA 3rd Sem

Month	Topics to be covered
July	Evolution of Business & Economy: Industrial revolution (1820-1850); Rise of European business (1850-1900); Impact of First World War on International Business; UNIT TEST 1
Aug	The Great Depression and its effect on International Business; Impact of Second World War on International Business. (UNIT TEST I) Evolution of Business in post WWII Scenario: Cold War and its impact on International Business; OPEC Crises and its impact on International Business; Gulf War and its impact on International Business; Dawn of IT era and its impact on business & economy. UNIT TEST 2
September	Commercial Geography: Geography - meaning & its relation with Commerce & Commercial Geography - Nature and scope. Approaches of commercial Geography. 2. Geographical Environment & Commerce - Relationship between geographical environment and Commerce, (UNIT TEST III)
October	Economic activities, Determinism and possibilism, Physical environment - Location, size and shape of the country relief, climate, water bodies, soils, vegetation, animals, minerals, Cultural environment, settlements, transport, communication and technology.
November	Industries : Role of industries in Economic development; Factors of industrial location - Raw material, power, market, transport and communication, land capital, technology; Webers theory of industrial location, Iron & steel industry - India & USA, Cotton textile industry - India & USA. Engineering industry in India - Major industrial regions of the world and India. (UNIT TEST IV)


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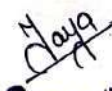
Name of Teacher : Prof. Pravin Rewatkar

Dept.: BBA

Subject / Paper : Principles of Financial Management

class: BBA III Sem

Month	Topics to be covered
Aug	Introduction of Business Finance - Meaning, Scope and importance of Business Finance. Finance Functions. Goals & objectives of financial management
September	Sources of Financing - LONG TERM: Equity shares, Preference Shares, debentures/ Bonds (Types, features & utility), term loans, lease & hire purchase, retained earnings,; SHORT TERM: trade credit, bank finance, commercial paper, factoring & bills discounting.
October	Cost of Capital - Cost of capital, Cost of different sources of finance, weighted average cost of capital, Concept of Leverage, Concepts of Capital Structure.
November	Working Capital Management - Meaning, Scope, Importance, and Limitations of Working Capital, Factors affecting Working Capital needs,.
December	Various Approaches for financing Working Capital. Concept of Operating Cycle, Estimation of Working Capital Requirement


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To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jayashree Patil

Dept.: BBA

Subject / Paper : Principals of Human Resource Management

Class: BBA IV Sem

Month	Topics to be covered
December	Introduction, Concept, HRM ; Evolution of HRM; Challenges of HRM; Role of Human Resource Management in strategic management, Characteristics of Workforce today
January	Concept and Introduction, Importance, process – methods of performance appraisal – Traditional & Modern Methods.
February	Concept, objectives and methods of Job Evaluation, Wages & Salary, components of employee remuneration – – base and supplementary. Wages & Salary Administration
March	Introduction to Provident Fund Act, Employee State Insurance Corporation Act, Minimum Wages Act, Industrial Relations Act, Industrial Dispute Act. examination

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BBA DEPARTMENT

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jayashree Patil

Dept.: BBA

Subject / Paper : Introduction to Sociology & Psychology

Class.: BBA IVSem

Month	Topics to be covered
December	Sociology – Meaning and Definitions, Characteristics of Sociology as a science , Development of Modern Industrial Society – Characteristics, industrialism, capitalism, urbanism, liberal democracy, Postmodern Society – Nature and Characteristics, Culture – Meaning and elements, Meaning, stages and agencies of socialisation.
January	Structural aspects of social system – Institutions, groups, subgroups, roles, norms and values, Social change – Its sources – Internal and External, Types of Social Change – Changes in social values with reference to pattern variables, changes in occupational structure and demographic changes
February	Definition, Nature, Scope and Applications of Psychology. Methods: ,Contemporary Perspectives: Biological, Cognitive, Psychoanalytical, Humanistic, Evolutionary and Cross-cultural. Biological Bases of Behaviors: Evolution, Genes and Behaviors. The Response Mechanism, Functions and Divisions of the Peripheral and Central Nervous System.
March	Introduction: Nature and Scope; Methods of Studying Social Behaviour: Observation, Experimental, Field Study, Survey, Sociometry and Cross-cultural. Socialization: Agents and Mechanisms, Socialization and Deviation. Perceiving Others: Forming Impressions; Role of Non-verbal Cues, Group stereotypes, Central Traits; Primary and Recency , Effects; Models of Information Integration; Attribution of Causality: - Biases and Theories.


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Name of Teacher : Prof. Pravin Rewatkar

Dept.: BBA

Subject / Paper : Money, Banking and Finance

Class.: BBA 4th Sem

Month	Topics to be covered
December	Concept and functions of Money, Origin and development of Money, Limitations of Barter System, UNIT TEST 1
January	Classification of Money, Importance of Money, Qualities of Good Money, Defects of money. Commercial Banking- Role and functions of Commercial Banks, Credit creation and its limitations Central Banking-Functions of Central Bank. UNIT TEST 2
February	Reserve Bank of India – Role in Indian Economy, Monetary & Non-Monetary functions of RBI. Meaning, Method & Difficulties of Measuring National Income;
March	Concept of GDP, GNP, NNP, PI, DPI. Inflation and Deflation- Types, Causes and Measures to Control. Concept, Objectives, Instruments, Limitations of Monetary and Fiscal policy, UNIT TEST 3
April	Public Finance- Meaning, Scope and Importance of Public Finance, Public Finance Vs Private Finance. UNIT TEST 4


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To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jitendra Alone

Dept.: BBA

Subject / Paper : Business Legislations
Sem

Class.: BBA 4th

Month	Topics to be covered
December	Administration of law & legal system in India - Introduction to legal aspects of Business in general; Freedom of Trade, Profession and Occupation (Constitutional Provisions). UNIT TEST 1
January	a) Definition (Sec.2) b) Essential elements of a valid contract c) Competency to enter in contracts (Sec. 11 & 12).d) Consent – Free consent, Coercion, undue influence, fraud, misrepresentation, mistake (sec 13-23).Void Agreement (sec 24-30) f) Consequences of breach of contract (sec73-75) UNIT TEST 2
February	The Companies Act (1956) - Definition & characteristics of a company, Company distinguished from partnership, Kinds of Companies, Provisions relating to incorporation, lifting the Corporate Veil. Memorandum of Association, Doctrine of ultra-vires, Articles of Association, Doctrine of indoor management & constructive notice, Concept of Prospectus.
March	Company Management And Board Meeting: Administrative Hierarchy, Board of Director – Director- Legal Position, Appointment, Qualification, Disqualification, Removals Power, duties, Liabilities etc. Managing Director – Meaning, Appointment, and Disqualification. Manager-Meaning, Disqualification. Company Meetings Meaning of meeting-General Body meeting – statutory Meeting, Annual General meeting, Extra ordinary meeting Board Meeting. UNIT TEST 3
April	The Consumer Protection Act,1986 Salient features of Act. Definitions- Consumer, Complaint, Services, Defect and Deficiency, Complainant. Rights and Reliefs available to consumer.Procedure to file complaint.Consumer Disputes Redressal Agencies.(Composition, Jurisdiction, Powers and Functions.) Procedure followed by Redressal Agencies UNIT TEST 4


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To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jayashree Patil

Dept.: BBA

Subject / Paper : Principles of Operations Management

Class: BBA V Sem

Month	Topics to be covered
july	Introduction to Operations Management, its Nature, Scope, Importance and Functions. Difference between production, manufacturing and service. Concept and types of production, mass, job-based, batch and assembly line production system. Types of services Factors affecting plant location, types of plant layouts – product layout, process layout, fixed position layout, cellular layout, types of service layouts.
August	Concept of production planning, definitions of capacities, master production schedule, material planning. Introduction to maintenance. Scope of materials management, Purchase and Stores Functions
September	Introduction to warehouse management, Concept of Lead time, re-order level, minimum and maximum stock, Basic concepts of Inventory management, inventory costs, ordering and carrying cost.
October	Introduction to quality, dimensions of quality, concept of product, process and service quality. Introduction to Quality Management System, concept of TQM, ISO, Kaizen, Quality circles, Six-sigma. Concepts of productivity, machine, labour and cost productivity.


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Name of Teacher : Prof. Jitendra Alone Dept.: BBA

Subject / Paper : International Business Environment Class.: BBA 5TH
Sem

Month	Topics to be covered
July	Introduction to International Business: Importance, nature and scope of International business; Modes of entry into International Business; Internationalization process and managerial implications; Issues in foreign investments, UNIT TEST 1
August	technology transfer, pricing and regulations; International collaborative arrangements and strategic alliances; Concept and significance of balance of payments account. International Business Environment: Economic, Political, Cultural and Legal environments in International Business. Framework for analyzing international business environment. UNIT TEST
September	Global Trading and Investment Environment: World trade in goods and services – Major trends and developments; World trade and protectionism – Tariff and non-tariff barriers;
October	Foreign investments-Pattern, Structure and effects; Movements in foreign exchange and interest rates and their impact on trade and investment flows. International Economic Institutions and Agreements: WTO, WTO and Developing Countries, IMF, World Bank, UNCTAD, UNIT TEST 3
November	International commodity trading and agreements. Structure and functioning of EC and NAFTA, Regional Economic Groupings in Practice: Levels of Regional Economic Integration; Regionalism vs. Multilateralism; Important Regional Economic Groupings in the World. UNIT TEST 4


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To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jitendra Alone Dept.: BBA

Subject / Paper : Entrepreneurship Development Class.: BBA 5TH
Sem

Month	Topics to be covered
July	Entrepreneur & Entrepreneurship: Evolution of the concept of Entrepreneurs, Characteristics of an Entrepreneur, Distinction between an entrepreneur and a manager; functions of an entrepreneur, types of entrepreneurs, UNIT TEST 1
August	concept of intrapreneurs; growth of entrepreneurship in India, role of entrepreneurship in economic development. Entrepreneurial growth: Factors - Economic factors, non-economic factors, Government actions; Entrepreneurial competencies – meaning, major competencies, developing competencies; Entrepreneurship Development Programs (EDPs) - Need, objectives, course content of EDPs, phases of EDPs, evaluating EDPs. UNIT TEST 2
September	Small Enterprises: An introductory framework: Definition, characteristics, relationship between small and large units, rationale, objectives, scope, opportunities for entrepreneurial career, problems of SSIs; Project Identification and Selection (PIS) -
October	Meaning of project, project identification, project selection, contents of project reports, formulation of project reports; Project Appraisal - Concept, methods, economic analysis, financial analysis, market analysis, technical feasibility, managerial competence. UNIT TEST 3
November	Institutional & financial support to Entrepreneurs: Need for institutional support, various institutions supporting entrepreneurship in India – MIDC, MSME, MCED, DIC, SSIB, MSSIDC, BIFR; Financial support to entrepreneurs: Commercial banks, other financial institutions – IDBI, IFCI, SFCs, SIDBI, venture capital. UNIT TEST 4


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To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Pravin Rewatkar

Dept.: BBA

Subject / Paper : Research Methodology

Class.: BBA 5th Sem

Month	Topics to be covered
July	Meaning, Objectives and Types of research, Research Approach, Research Process. Relevance & scope of research in management. Research Design - Features of good Design, Types of Research Design, UNIT TEST- 1
August	Steps in sample Design, Characteristics of a good sample Design, Probability & Non Probability sampling. , UNIT TEST- 2
September	Hypothesis – Meaning, Types, Process, Formation of Hypothesis, Testing of Hypothesis. Measurement & scaling techniques - Errors in measurement. Test of sound measurement, Scaling and scale construction technique. , UNIT TEST- 3
October	Attitude Measurement and Scales: Introduction to attitude - Various Methods to measure attitude.
November	Methods of data collection - Primary data – questionnaire and interviews; Collection of secondary data. Interpretation of data - Techniques of Interpretation, Report writing, Layout of a project report, preparing research reports. , UNIT TEST- 4

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Name of Teacher

: Prof. Pravin Pawatkar

Dept.: BBA

Subject / Paper

: Fundamentals of Business Finance

Class.: BBA 6th Sem

Month	Topics to be covered
December	Mathematics of Finance – Concept of Time Value of Money, Compounding and Discounting of single cash flow, series of cash flow and annuity. Simple problems based on Time Value of Money. UNIT TEST- 1
January	Capital Budgeting - Premises of Capital Budgeting Decisions, Tools in Capital Budgeting, Pay Back Period, Average Rate of Return on Investments, Net Present Value, IRR. UNIT TEST- 2
February	Dividend decision and Management of Earnings - Relevance approach of dividend valuation models, UNIT TEST- 3
March	Irrelevance approach of dividend valuation models, Stability of dividend, Factors determining dividend decisions. Reasons & drivers of corporate restructuring, Methods of restructuring- mergers (types of merger),
April	Takeovers, acquisitions (Types of Takeover/ acquisition), divesting/ demerger, spin-off, split ups. UNIT TEST- 4


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Name of Teacher

: Prof. Pravin Rewatkar

Dept.: BBA

Subject / Paper

: Advanced Marketing Management

Class.: BBA 6th Sem

Month	Topics to be covered
December	Sales Management : - Evolution of sales function, Objectives of sales management positions, Functions of Sales executives, Relation with other executives, Salesmanship : Theories of personal selling, Types of Sales executives, Qualities of sales executives, Prospecting, pre-approach and post-approach. Organising display, showroom & exhibition
January	Distribution network Management: Product Distribution Channel & Types of Marketing Channels, Factors affecting the choice of channel, Types of middleman and their characteristics, Wholesale and Retail, Supply Chain Management (SCM) and introduction to Supply Chain Management, Various types of Warehousing and transportation facilities.
February	Service Quality - Impact of service Quality, Approaches to service Quality, Ten original dimensions of Service Quality, How to improve service Quality, Service quality information systems, Benchmarking and certification. Marketing challenges in services business; Classification of services; End user. Profit orientation, Services tangibility, People based services, Expertise. Role of IT in service industry.
March	Irrelevance approach of dividend valuation models, Stability of dividend, Factors determining dividend decisions. Reasons & drivers of corporate restructuring. Methods of restructuring- mergers (types of merger),
April	Customer Retention & Relationship Marketing: CB-Services, Facts & Importance of CB in services, Evolution of Relationship Marketing, Enhancement of Internal & External relationships, Customer Retention (Operations, Delivery System). Various types of services offered to customers - hotel, hospital, transport, insurance, banking and education.


Head / Co-ordinator
 Dept. of BBA
 Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2022-23

To be submitted to the Teacher Appraisal Committee

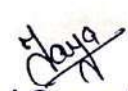
Name of Teacher : Prof. Jitendra Alone

Dept.: BBA

Subject / Paper : Advance Financial Management
Sem

Class.: BBA 6th

Month	Topics to be covered
December	Banking Services and Operations -Definition of banks, Functions of Commercial Banks, Banking Structure in India, Role of RBI vis-a-vis other commercial banks, Introduction to Bank Deposits, Types of Deposit Accounts, KYC UNIT TEST 1
January	Insurance Services - Concept of insurance, principles of insurance, Traditional and Unit linked policies, individual and group policies, Different type of insurance products – whole life products, term assurance annuities, and endowment, Medi-Claim and health insurance products. UNIT TEST 2
February	Mutual Funds - Organization Structure, Classification of Funds -Types of Funds - Equity Funds, Debt Funds, Liquid Funds, Balanced Funds, Monthly Income Plans, UNIT TEST 3
March	ETFs, Commodity Funds, Fund of Funds, Sectoral Funds, ELSS; Calculation of NAV; Systematic Investment Plans; Concept of Cost Averaging and Value Averaging.
April	Capital Market - Introduction to Capital Markets, Structure of Capital Market, Primary and Secondary Market, Stock Exchanges in India- BSE, NSE, OTCEI, ICSEI, Functions of Stock Exchange, SEBI and Role of SEBI in Capital Market UNIT TEST 4


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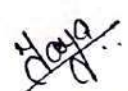
PROFORMA OF TEACHING PLAN- 2022-23

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jitendra Alone Dept.: BBA

Subject / Paper : Fundamentals of Marketing Management Class.: BBA 6th
Sem

Month	Topics to be covered
December	Integrated Communication Mix (IMC) -meaning, importance; Communication meaning, importance, process, communication mix-components, role in marketing,
January	Branding - meaning, brand recall, brand positioning. Importance of branding and advertising. Digital Marketing – Scope and Importance, Search Engine Optimisation (SEO), Out of home (OOH).
February	Sales Organisation and Relationship : Purpose of sales organization, Types of sales organization structures, Sales department external relations, Distributive network relations.
March	Concept of services - Nature & characteristics of services, Marketing Mix and strategies in Service Marketing, Product decisions, pricing strategies,
April	Promotion of services, Placing or Distribution methods of services, Service vision & Strategies: Includes Advertisements, Branding, Packaging of Services.


Head / Co-ordinator
Dept. of BBA
Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN- 2022-23

BBA DEPARTMENT

To be submitted to the Teacher Appraisal Committee


Name of Teacher : Prof. Jayashree Patil

Dept.: BBA

Subject / Paper : Advanced Human Resource Management

Class: BBA VI Sem

Month	Topics to be covered
July	Job Analysis & Design - Job Analysis – Meaning, Uses, Competency approach to job analysis, Job Description, Job Specifications & Role Analysis, Factors affecting Job Design, Techniques of Job Design, Cases and Exercises in understanding Job Analysis. Job Evaluation –Concept, objective & methods.
August	Nature, Objectives of Performance Appraisal, Performance Planning and Potential Appraisal, Pitfalls of Appraisal, Praise and Recognition;
September	Rewards and Incentives; Promotions. HR Records, MIS HR Reports, HR Formats – Personnel Files, Attendance, Leave, Medical Records. Nature, Concept, scope, objectives & significance of Industrial Relations, Trade unions, Functions of Trade Unions - Forms of collective bargaining – Workers participation in management, Nature & causes of Industrial Dispute and Settlement of Industrial Disputes.
October	Goal Setting, Promotions and Transfers; Separations- Retirement, VRS, Deputation, Death, Retrenchment, Pink Slips, Competency Mapping, Employee Manual / PPP Handbook. Concept of Retention and Attrition. Online recruitment; Employee referrals; Recruitment process outsourcing Head hunting; Downsizing; Voluntary retirement schemes (VRS) HR outsourcing, Job Rotation & Transfer


Head / Co-ordinator
Dept. of BBA
Nabira Mahavidyalaya, Katol


TIME TABLE

MBA - I (Semester - I)			Academic Year 2022-23				
Day / Time	10 am to 11 am	11 am to 12 noon	12 noon to 1 pm	1 pm to 1:30 pm	1:30 pm to 2:30 pm	2:30 pm to 3:30 pm	3:30 pm to 4:30 pm
Mon	Managerial Economics (PSM)	Organizational Behaviour (ASC)	Business Statistics & Analytics for Decision Making (ASD)	R E C E S S	Legal & Business Environment (AAJ)	PRESENTATION (AAJ)	READING IN LIBRARY
Tue	Managerial Economics (PSM)	Organizational Behaviour (ASC)	Business Statistics & Analytics for Decision Making (ASD)		Legal & Business Environment (AAJ)	PERSONALITY DEVELOPMENT (HLV)	
Wed	Managerial Economics (PSM)	Organizational Behaviour (ASC)	Business Statistics & Analytics for Decision Making (ASD)		Legal & Business Environment (AAJ)	MANAGEMENT GAME (PSM)	COMPUTER LAB
Thu	Financial Reporting, Statements & Analysis (PSM)	Management Information Systems (HLV)	Business Research (ASD)		Managerial Skills for Effectiveness (ASC)	GROUP DISCUSSION (ASD)	
Fri	Financial Reporting, Statements & Analysis (PSM)	Management Information Systems (HLV)	Business Research (ASD)		Managerial Skills for Effectiveness (ASC)	Managerial Skills for Effectiveness (ASC)	ROLE PLAY (ASC)
Sat	Financial Reporting, Statements & Analysis (PSM)	Management Information Systems (HLV)	Business Research (ASD)		SATURDAY ACTIVITIES		

Name of Faculty Member	Abbreviation	Name of Faculty Member	Abbreviation
Dr. Hitesh Vaswani	(HLV)	Dr. Atul Charde	(ASC)
Dr. Pradeep Mahajan	(PSM)	Dr. Atul Daware	(ASD)
Dr. Adil Jiwani	(AAJ)		


(Dr. Pradip S. Mahajan)

Time Table Incharge


(Dr. S. K. Navin)

w.e.f: 01st Oct. 2022

MBA - II (Semester - III)		Academic Year 2022-23					
Day / Time	10 am to 11 am	11 am to 12 noon	12 noon to 1 pm	1 pm to 1:30 pm	1:30 pm to 2:30 pm	2:30 pm to 3:30 pm	3:30 pm to 4:30 pm
Mon	Operation Research (ASD)	Performance Mgmt. System (AAJ)	Strategic Management (HLV)	Investment Analysis & Portfolio Mgmt. (PSM)	Integrated Marketing Comm. & Brand Mgmt. (ASC)	Compensation & Benefits Mgmt. (ASD)	Sales & Distribution Mgmt. (PSM)
Tue	Operation Research (ASD)	Performance Mgmt. System (AAJ)	Strategic Management (HLV)	Investment Analysis & Portfolio Mgmt. (PSM)	Integrated Marketing Comm. & Brand Mgmt. (ASC)	Compensation & Benefits Mgmt. (ASD)	Sales & Distribution Mgmt. (PSM)
Wed	Operation Research (ASD)	Performance Mgmt. System (AAJ)	Strategic Management (HLV)	Investment Analysis & Portfolio Mgmt. (PSM)	Integrated Marketing Comm. & Brand Mgmt. (ASC)	Compensation & Benefits Mgmt. (ASD)	Sales & Distribution Mgmt. (PSM)
Thu	Digital & Social Media Marketing (ASC)		Financial Derivatives (AAJ)	Project Appraisal & Finance (PSM)	Quality Toolkit for Managers (ASD)	Quality Toolkit for Managers (ASD)	READING IN LIBRARY
Fri	Digital & Social Media Marketing (ASC)		Financial Derivatives (AAJ)	Project Appraisal & Finance (PSM)	Manpower Planning, Recruitment & Selection (AAJ)	Manpower Planning, Recruitment & Selection (AAJ)	COMPUTER LAB
Sat	Digital & Social Media Marketing (ASC)		Financial Derivatives (AAJ)	Project Appraisal & Finance (PSM)	SATURDAY ACTIVITIES		

R E F E R E N C E S

Name of Faculty Member	Abbreviation	Name of Faculty Member	Abbreviation
Dr. Hitesh Vaswani	(HLV)	Dr. Atul Charde	(ASC)
Dr. Pradeep Mahajan	(PSM)	Dr. Atul Daware	(ASD)
Dr. Adil Jiwani	(AAJ)		

Signature

(Dr. Pradip S. Mahajan)
Time Table Incharge

(Dr. S. K. Navin)
Principal
Department of Management Studies

Department of Management Studies
Nabira Mahavidyalaya, Katol, Dist. Nagpur
TIME TABLE
(Room No. 303)

w.e.f.: 20th March 2023

MBA - I (Semester - II)		Academic Year 2022-23					
Day / Time	10 am to 11 am	11 am to 12 noon	12 noon to 1 pm	1 pm to 1:30 pm	1:30 pm to 2:30 pm	2:30 pm to 3:30 pm	3:30 pm to 4:30 pm
Mon	Financial Management (AAJ)	Cost Accounting (PSM)	Marketing Management (ASC)	R E C E S S	Human Resource Management (ASD)	PERSONALITY DEVELOPMENT (HLV)	READING IN LIBRARY
Tue	Financial Management (AAJ)	Cost Accounting (PSM)	Marketing Management (ASC)		Human Resource Management (ASD)	PRESENTATION (AAJ)	
Wed	Financial Management (AAJ)	Cost Accounting (PSM)	Marketing Management (ASC)		Human Resource Management (ASD)	MANAGEMENT GAME (PSM)	COMPUTER LAB
Thu	Operations Management (ASD)	CSR & Sustainability (HLV)	Management Case Analysis (PSM)		International Business (ASC)	ROLE PLAY (ASC)	
Fri	Operations Management (ASD)	CSR & Sustainability (HLV)	Management Case Analysis (PSM)		International Business (ASC)	International Business (ASC)	GROUP DISCUSSION (ASD)
Sat	Operations Management (ASD)	CSR & Sustainability (HLV)	Management Case Analysis (PSM)		International Business (ASC)	SATURDAY ACTIVITIES	

Name of Faculty Member	Abbreviation	Name of Faculty Member	Abbreviation
Dr. Hitesh Vaswani	(HLV)	Dr. Atul Charde	(ASC)
Dr. Pradeep Mahajan	(PSM)	Dr. Atul Daware	(ASD)
Dr. Adil Jiwani	(AAJ)		

Pradeep Mahajan

(Dr. Pradip S. Mahajan)

Time Table Incharge

Navin

(Dr. S. K. Navin)

Dr. S. K. Navin

**Department of Management Studies,
Nabira Mahavidyalaya, Katol.**

Department of Management Studies
Nabira Mahavidyalaya, Katol, Dist. Nagpur
TIME TABLE
(Room No. 304)

w.e.f.: 20th Feb. 2023

MBA - II (Semester - IV)		Academic Year 2022 - 2023					
Day / Time	10 am to 11 am	11 am to 12 noon	12 noon to 1 pm	1 pm to 1:30 pm	1:30 pm to 2:30 pm	2:30 pm to 3:30 pm	3:30 pm to 4:30 pm
Mon	Sales and Operations Planning (ASD)	Managing Banks and Financial Institutions (HLV)	Training and Placement Activity (AAJ)	R E C E S S	Value Addition (PSM)		COMPUTER LAB
Tue	Sales and Operations Planning (ASD)	Managing Banks and Financial Institutions (HLV)	Training and Placement Activity (AAJ)		Value Addition (ASC)		
Wed	Sales and Operations Planning (ASD)	Managing Banks and Financial Institutions (HLV)	Training and Placement Activity (AAJ)		Value Addition (ASD)		
Thu	Retail Sales Management & Services Marketing (PSM)	Team Dynamics (ASC)	Financial Module Training (AAJ)		Value Addition (HLV)		
Fri	Retail Sales Management & Services Marketing (PSM)	Team Dynamics (ASC)	Financial Module Training (AAJ)		Value Addition (AAJ)		
Sat	Retail Sales Management & Services Marketing (PSM)	Team Dynamics (ASC)	Financial Module Training (AAJ)		Project Guidance (Respective Guide)		

Name of Faculty Member	Abbreviation	Name of Faculty Member	Abbreviation
Dr. Hitesh Vaswani	(HLV)	Dr. Atul Charde	(ASC)
Dr. Pradip Mahajan	(PSM)	Dr. Atul Daware	(ASD)
Dr. Adil Jiwani	(AAJ)		

Pradip

(Dr. Pradip S. Mahajan)

Time Table Incharge

AR

(Dr. S. K. Navin)

Principal

**Department of Management Studies,
Nabira Mahavidyalaya, Katol.**

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Course: MBA Sem: IV

Name of Professor: Hitesh Vaswani

Subject: Managing Banks & Financial Institutions

Sr. No	Month	Module	Topics	Remarks
1.	January	I	Structure of Financial System, Financial System and Economic Development, Indian Financial System – The Banking System.	
2.	February	II	Monetary Policy of RBI	
3.	March	III	Commercial Banks and Functions of Commercial Banks , Liabilities of Bank, Credit Management	
4.	April	IV	Banking Innovations, NPAs, and Securitization	If university exams are declared early, syllabus will be covered by taking extra classes.
5.	April	V	Life Insurance, General Insurance, Housing Finance, Credit Rating	

Department of Management Studies, Nabira Mahavidyalaya, Katol

Tentative Teaching Plan - Academic Session 2022-23

Course: MBA Sem: II

Name of Professor: Hitesh Vaswani

Subject: Corporate Social Responsibility

Sr. No	Month	Module	Topics	Remarks
1.	January	I	Meaning & Definition of CSR, History & evolution of CSR, Motives of CSR, Benefits and Internal scope of CSR, Enterprise Social Responsibility, Concept of sustainability & Stakeholder Management. CSR through triple bottom line and Sustainable Business; environmental aspect of CSR; Chronological evolution of CSR in India.	
2.	February	II	Management and Social Theories, Five types of managers, organization classification. International framework for corporate social Responsibility, Millennium Development goals, Sustainable development goals, Relationship between CSR and MDGs. United Nations (UN) Global Compact 2011. UN guiding principles on business and human rights. OECD CSR policy tool, ILO tri-partite declaration of principles on multinational enterprises and social policy.	
3.	March	III	Section 135 of Companies Act 2013.Scope for CSR Activities under Schedule VII, Appointment of Independent Directors on the Board. The Drivers of CSR in India, Changing expectations of social responsibility, four faces of social responsibility, the regulatory environment in India Counter trends. Performance in major business and programs.	
4.	April	IV	Role of Public Sector in Corporate, government programs that encourage voluntary responsible action of corporations. Role of Nonprofit & Local Self Governance in implementing CSR; Contemporary issues in CSR & MDGs. Global Compact Self Assessment Tool, National Voluntary Guidelines by Govt. of India. Understanding roles and responsibilities of corporate foundations	If university exams are declared early, syllabus will be covered by taking extra classes.
5.	April	V	CSR as a Strategic Business tool for Sustainable development. Review of successful corporate initiatives & challenges of CSR. Case Studies of Major CSR Initiatives.	

**Department of Management Studies
Nabira Mahavidyalaya, Katol**

Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Hitesh Vaswani
Subject: Management Information System

Course: MBA Sem: I

Sr. No	Month	Module	Topics	Remarks
1.	August	I	Concepts & Types of Information Systems. Components of MIS, Information Activities. Strategic Management of Business. Balance Score Card. Scorecard and Dashboard. Measures of business operations and business performance. Steps for strategic design of MIS.	
2.	September	II	Application of MIS in Manufacturing Sector: Model of Information Processing System. Application of Model to personnel Management, financial management, production management, marketing management.	
3.	Oct.	III	Introduction to service sector, creating distinctive service, service concept, service process cycle, service management system, MIS application in service industry – banking and insurance.	
4.	Nov.	IV	ERP Systems, Models of business functions integration. ERP model and modules. Business organization model. ERP product characteristics. Benefits of ERP. ERP product evaluation. ERP implementation. SCM & CRM. EMS Model.	If university exams are declared early, syllabus will be covered by taking extra classes.
5.	Nov.	V	Technology of Information systems. Introduction, data processing, Transaction processing. Application processing, information system process, OLAP, TQM of Information system. Real Time Systems. Case tools and I-CASE.	

Department of Management Studies, Nabira Mahavidyalaya, Katol

Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Hitesh Vaswani

Course: MBA Sem: III

Subject: Strategic Management

Sr. No	Month	Module	Topics	Remarks
1.	August	I	Introduction to Strategic Management and Business Policy – Evolution of strategic management and business policy, understanding strategy, strategic decision making, schools of thought of strategy formation, introduction to strategy management	
2.	September	II	Strategic Intent and Strategy Formulation- Vision, Mission and Values, Organisational Values and their impact on strategy, preparation of vision and mission statement, organizational objectives, Environmental Appraisal, Concept of environment, SWOT Analysis, Environmental Sectors, Environmental Scanning	
3.	Oct.	III	Corporate Level Strategies – Strategy formulation, Growth Strategy, Corporate Parenting, Portfolio and other analytical models, short term corporate strategies	
4.	Oct.	IV	Competitive Strategy/ Business Level Strategy- Porter’s competitive strategies, Resource based theory, Competing for tomorrow’s market.	
5.	Nov.	V	Functional and Operational Implementation – Functional Strategy, Financial Plans and Policies, Marketing Plans and Policies, Personnel Plans and Policies, Operational Plans and Policies , Strategy Evaluation and Selection Techniques – Evaluation of Strategy, Assessing suitability, Life Cycle Analysis, Positioning, Value Chain Analysis, Business Profile, Gap Analysis	

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Pradip S. Mahajan Course: M.B.A. Sem: II Subject: Cost Accounting

Sr. No	Month	Unit	Topics	Remarks
1.	January	I	Conceptual framework of Cost Accounting: Unit & Output Costing - Preparation of Cost Sheet and Tender/ Quotations.	
2.	February	II	Marginal Costing And Profit Volume Relationship And Decision Making: Break-even-analysis: Application of BEP for various Business problems	
3.	March	III & IV	Operating Costing: Concept of operating Costing Features of operating costing: Transport costing, Canteen, Hospital and hotels costing. Budgeting and Budgetary Control: Techniques of Financial statement Analysis	
4.	April	V	Standard Costing & Variance Analysis: Introduction, Meaning and limitations of Standard Costing. Variance Analysis & Direct labour Variance	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Pradip S. Mahajan Course: M.B.A. Sem: I Subject: Financial Reporting, Statements And Analysis

Sr. No	Month	Unit	Topics	Remarks
1.	August	I & II	Accounting Standards: Introduction to Indian Accounting Standards AS2, AS3, AS6, AS10 Financial Statement Reporting I: Final Account As per Companies Act 2013	
2.	September	III	Financial Statement Reporting II: Cash Flow Analysis (As per Companies Act 2013)	
3.	October	IV	Analysis of Financial Statement I: Ratio Analysis	
4.	November	V	Analysis of Financial Statement II: Techniques of Financial statement Analysis	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Pradip S. Mahajan Course: M.B.A. Sem: III Subject: Investment Analysis & Portfolio Management

Sr. No	Month	Unit	Topics	Remarks
1.	August	I & II	FIXED-INCOME VALUATION: Bond Prices and the Time Value of Money, The Maturity Structure of Interest Rates. Yield Spreads EQUITY VALUATION: CONCEPTS AND BASIC TOOLS. Present Value Models, Multiplier Models, Asset-Based Valuation	
2.	September	III	PORTFOLIO RISK AND RETURN – PART I: Investment Characteristics of Assets, Portfolio Risk	
3.	October	IV	PORTFOLIO RISK AND RETURN – PART II: Efficient Frontier and Investor's Optimal Portfolio, Capital Market Theory, Pricing of Risk and Computation of Expected Return, Capital Asset Pricing Model.	
4.	November	V	PORTFOLIO MANAGEMENT: Performance evaluation – Sharpe Ratio, Treynor Ratio, Jensen's Alpha, Sortino Ratio and M2.	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Pradip S. Mahajan

Course: M.B.A.

Sem: II Subject: Management Case Analysis

Sr. No	Month	Unit	Topics	Remarks
1.	January	I & II	Introduction – Persuasion, Augmentation and Case Method, What is a case?, How to Analyse a Case, Case Demonstration, Problems, Decisions and Evaluation Cases on General Management and Strategic Management	
2.	February	III	Cases on Marketing Management	
3.	March	IV	Cases on Financial Management	
4.	April	V	Cases on Human Resource Management	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Pradip S. Mahajan

Course: M.B.A.

Sem: I Subject: Managerial Economics

Sr. No	Month	Unit	Topics	Remarks
1.	August	I & II	Demand Analysis: Demand, Elasticity of Demand, Demand Forecasting Supply and Production Decisions: Law of Supply, Theory of Production, Economies and Diseconomies of Scale	
2.	September	III	Market Structure and Pricing Practices: Analysis of Market Structures, Perfect Competition, Monopolistic Competition, Oligopoly, Monopoly	
3.	October	IV	Macro-Economic Fundamentals: Macro Economics, Inflation	
4.	November	V	National Income and Business Cycle: National Income, Overview of Business Cycle	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Pradip S. Mahajan Course: M.B.A. Sem: III Subject: Project Appraisal and Finance

Sr. No	Month	Unit	Topics	Remarks
1.	August	I & II	Long-term Investment Decisions: Risk and Uncertainty Analysis, Certainty Equivalent Approach, Sensitivity Analysis, Probability Distribution Approach and Decision Tree Approach Leasing, Hire-purchase & Project Finance:	
2.	September	III	Capital structure & Value of firm: NI approach, NOI approach, Traditional Position, MM position	
3.	October	IV	Mergers & Acquisitions: M & A –Exchange ratio, financial evaluation of mergers, M&A as capital budgeting decision, Economic value added & market value added Taxation aspects.	
4.	November	V	Management of Cash: Management of Receivables:	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: **Dr. Pradip S. Mahajan** Course: **M.B.A.** Sem: **IV** Subject: **Retail Sales Management and Service Marketing**

Sr. No	Month	Unit	Topics	Remarks
1.	January	I	Module I: Introduction to Retailing	
2.	February	II	Module II: Store Location and Layout:	
3.	March	III & IV	Module III: Retail Merchandising Module IV: Services Marketing	
4.	April	V	Module V: Integrated Services Marketing:	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: **Dr. Pradip S. Mahajan** Course: **M.B.A.** Sem: **III** Subject: **Sales and Distribution Management**

Sr. No	Month	Unit	Topics	Remarks
1.	August	I	Module I - Introduction to Sales Management	
2.	September	II & III	Module II - Sales Organization Module III - Physical Distribution	
3.	October	IV	Module IV - Supply Chain Management	
4.	November	V	Module V - E-commerce and e-retailing	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: **Dr. ATUL S CHARDE**

Course: **M.B.A. Sem: I**

Subject: **MANAGERIAL SKILLS FOR EFFECTIVENESS**

Sr. No	Month	Unit	Topics	Remarks
1.	August	I	Basics of Verbal Communication - Pairs and Group of words, Synonyms and Antonyms,	
2.	August	I	sentence construction and punctuation, phrases/ idioms , proverbs	
3.	August	II	Essay Writing - Methods of expression, style and tone, synopsis and structure	
4.	August	II	Letter Writing - Business correspondence personnel (job obligations, CV and Resume)	
5.	August	III	Writing Business Letters and Quotations	
6.	September	III	Letter of Enquiry, Sales Promotion	
7.	September	III	Complaint, Placing Order, Quotations	
8.	September	III	Leadership- Concept, Leadership styles and Theories- Trait Theory,	
9.	October	IV	PowerPoint - Auto Content Wizard, Design Templates, Views, Working with slides,	
10.	October	IV	Page Setup, Animations, Colour Schemes, Background, Master Slide.	
11.	October	V	Spreadsheets - Spreadsheet basics, Standard Toolbar, Basic Functions, Sorting and Filtering, Charts, Statistical Functions, Data Management in Spreadsheet: Data Entry, Tables,	
12.	October	V	Formulas and Functions: Mathematical & Statistical Functions. Logical Functions in Spreadsheet: 'And',	

Total Number Teaching days: _____ Whether Course is completed? Yes / No Whether extra classes required? Yes / No If yes, How many classes?

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. ATUL S CHARDE

Course: M.B.A. Sem: I

Subject: ORGANIZATIONAL BEHAVIOUR

Sr. No	Month	Unit	Topics	Remarks
1.	August	I	Organisation Design: Understanding organizations-Basics of an organizational design-Organization and stakeholders-Organizations and environmental influences	
2.	August	I	Organizational strategy-Organizational design - Alternative structures-	
3.	August	I	Management process - Authority and Responsibility Relationship; organizational control mechanisms; Organizational decision making	
4.	August	II	<i>Organisational Behaviour:</i> Introduction, Foundations of individual behavior	
5.	August	II	Ability, Attitudes	
6.	September	II	Job Satisfaction, Personality, Values , Perception	
7.	September	III	Motivation- Concept, types of motivation and Theories-Maslow, Herzberg, Mc Gregor	
8.	September	III	Leadership- Concept, Leadership styles and Theories- Trait Theory,	
9.	October	III	Path Goal Theory, Blake Mouton-Managerial Grid	
10.	October	IV	Group and Team Behavior-Foundations of Group behavior -Group development; Group properties: Roles, norms, status, size and cohesiveness,	
11.	October	IV	Group decision making, Techniques, Teams -Type and Team Dynamics	
12.	October	IV	Conflict and Change -Understanding organizations- Managing organizational culture, Managing organizational conflict, power & politics ;Organizational life cycle and	

Total Number Teaching days: _____ Whether Course is completed? Yes / No Whether extra classes required? Yes / No If yes, How many classes?

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: **Dr. ATUL S CHARDE**

Course: **M.B.A.**

Sem: **II**

Subject: **INTERNATIONAL BUSINESS**

Sr. No	Month	Unit	Topics	Remarks
1.	January	I	Introduction to International business, its importance and various concepts involved in it such	
2.	February	I	various tariff and non tariff barriers,	
3.	February	I	regional trading blocs and types of trade agreements.	
4.	February	II	Modes of entry into International Business, Internationalization process and managerial implications case studies related to internationalization process	
5.	February	II	International business approaches: ethnocentric, polycentric, regiocentric, geocentric.	
6.	March	II	Various Macro factors affecting International Business Environment:	
7.	March	III	Political, Economical, Socio-cultural, Technological, Environmental and Legal factors.	
8.	March	III	Various Government Institutes supporting foreign trade and their role:	
9.	April	III	DGFT, Export Promotion Council, ECGC, SEZs, EPZs and EOUs, EXIM Bank and FEMA	
10.	April	IV	Distribution channel intermediaries; Channel management decisions; Retailing and wholesaling.	
11.	April	IV	Drivers of FDI, Flow of FDI in India , EXIM Policy of India Direction of India's Foreign Trade (imports and exports scenario)	
12.	April	IV	Role of RBI in exchange rate management	

Total Number Teaching days: _____ Whether Course is completed? Yes / No Whether extra classes required? Yes / No If yes, How many classes?

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. ATUL S CHARDE

Course: M.B.A.

Sem: II

Subject: MARKETING MANAGEMENT

Sr. No	Month	Unit	Topics	Remarks
1.	January	I	Introduction: Concept, nature, scope and importance of marketing; Marketing concept and its evolution;	
2.	February	I	Marketing mix; Marketing environment – macro and micro components	
3.	February	I	their impact on marketing decisions; Market segmentation and positioning	
4.	February	II	Product Decisions: Concept of a product; Classification of products; levels of product, Major product decisions;	
5.	February	II	Product line strategies and product mix strategies; Product life cycle – strategic implications;	
6.	March	II	New product development and consumer adoption process. Packaging and labelling.	
7.	March	III	Pricing Decisions: Pricing objectives, Factors affecting price determination;	
8.	March	III	Pricing policies methods and strategies, Initiating and responding to price change	
9.	April	III	Distribution Channels and Physical Distribution Decisions: Nature, functions, and types of	
10.	April	IV	Distribution channel intermediaries; Channel management decisions; Retailing and wholesaling.	
11.	April	IV	Promotion Decisions: Communication Process; Promotion mix – advertising, personal selling, sales promotion, publicity and public relations;	
12.	April	IV	Determining advertising budget; Copy designing and testing; Media selection; Advertising effectiveness;	

Total Number Teaching days: _____ Whether Course is completed? Yes / No Whether extra classes required? Yes / No If yes, How many classes?

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. ATUL S CHARDE Course: M.B.A. Sem: III Subject: DIGITAL AND SOCIAL MEDIA MARKETING MGMT.

Sr. No	Month	Unit	Topics	Remarks
1.	August	I	Introduction: Digital Marketing and its Significance. Traditional marketing V/s digital marketing.	
2.	August	I	Marketing in digital environment, Introduction to E-commerce, types of E-commerce & business models	
3.	August	I	Advantages & Disadvantages, hybrid & multi-channel options, online media and types.	
4.	August	II	Digital marketing research: Features of marketing research, steps in marketing research, methods of digital marketing research, audience profiling and segmentation.	
5.	September	II	The internet: uses, purposes, online consumer behaviour, direct marketing. Online research methods, behavioural targeting,	
6.	September	II	blogs and types, building customer profiles, competitor analysis, integrating online strategies, offline marketing	
7.	September	III	Search Engine Marketing: Introduction, email campaign creation and management, search and display on search engines, pricing models, page rankings, search engine optimization (SEO) and process, key words, search engine marketing (SEM), paid and natural search, search methodology.	
8.	September	III		
9.	October	IV	Social Media: Introduction to social media, Facebook, LinkedIn, Twitter, Youtube, creating a channel on Youtube, social media measuring, forums and discussion boards, forums and communities, blogs, viral campaigns, building online relationships with different stakeholders.	
10.	October	IV		
11.	October	V	Online Reputation and Recent Trends: Introduction, reputation management process, features of online reputation management, strategies and tools of online reputation management, handling negative comments, recent trends in digital marketing, localization of content and advertising, marketing using mobile networks, journey from traditional to mobile banking, consumer engagement and methods. Review	
12.	October	V		

Total Number Teaching days: _____ Whether Course is completed? Yes / No Whether extra classes required? Yes / No If yes, How many classes?

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: **Dr. ATUL S CHARDE**

Course: **M.B.A. Sem: III**

Subject: **IMC and BRAND MANAGEMENT**

Sr. No	Month	Unit	Topics	Remarks
1.	August	I	Marketing Communication: Introduction, Objectives, using MC to build brand, Introduction to IMC: concepts, IMC partners & industry organisation.	
2.	August	I	How brand communication works, How brand decision makers respond to MC messages. IMC planning process	
3.	August	I	Creating Sending & Receiving IMC messages - How to develop creative message strategy, how to get a big idea; Message execution.	
4.	August	II	Media planning : Media classifications, Advertising & IMC Media Planning, consumer sales promotion,	
5.	September	II	trade promotion, Personal selling ,Public relations, direct marketing, event marketing and customer services; Evaluating IMC campaigns	
6.	September	II	Brand Management & Brand Equity: Meaning, Scope of Brand, Brand Management	
7.	September	III	Branding Challenges & opportunities. Strategic Brand Management - need & process. Identifying & Establishing	
8.	September	III	Brand Positioning & Values-Brand Equity, customer based brand equity, brand positioning.	
9.	October	III	Planning & implementing brand marketing program, Measuring & implementing brand performance	
10.	October	IV	Distribution channel intermediaries; Channel management decisions; Retailing and wholesaling.	
11.	October	IV	Supply Chain Management - concept - significance - components - Order processing - Material Handling - Transportation - Warehousing - Inventory Management -	
12.	October	IV	E-commerce and e-retailing - E-commerce and e-retailing as a channel of distribution, Electronic intermediaries, Disintermediation and Re-intermediation, e-enabled logistics	

Total Number Teaching days: _____ Whether Course is completed? Yes / No Whether extra classes required? Yes / No If yes, How many classes?

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: **Dr. ATUL S CHARDE** Course: **M.B.A.** Sem: **III** Subject: **LOGISTICS AND SUPPLY CHAIN MANAGEMENT**

Sr. No	Month	Unit	Topics	Remarks
1.	August	I	Supply Chain Management: Concept, Decision Phases in Supply chain, Supply chain strategies	
2.	August	I	Drivers of supply chain performance	
3.	August	I	competitive advantage through supply chain management.	
4.	August	II	Supply Chain Network: Factors influencing distribution network design	
5.	September	II	Design options for distribution network, Designing distribution network in various business applications	
6.	September	II	E-supply chain, and impact of uncertainty on network design.	
7.	September	III	Network Optimization: Optimization approach and techniques, Role of transportation in supply chain, factor influencing transport decisions	
8.	September	III	modes of transportation and selection process Warehousing Management, Reverse Logistics	
9.	October	IV	Procurement and Suppliers Relationship: Procurement overview, Purchase process and purchasing cycle, Supplier Relationship Management, Supplier segmentation and Supplier evaluation	
10.	October	IV		
11.	October	V	SCM Performance Measures: Importance of performance measure, Introduction to SCOR Model, Types of Performance Measures – Productivity Measure, Quality Measure, Customer Service Measure and Cost Measure	
12.	October	V		

Total Number Teaching days: _____ Whether Course is completed? Yes / No Whether extra classes required? Yes / No If yes, How many classes?

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. ATUL S. CHARDE

Course: M.B.A.

Sem: IV

Subject: TEAM DYNAMICS

Sr. No	Month	Unit	Topics	Remarks
1.	February	I	Motivation- Concepts, Theories of Maslow, Herzberg, Application of Motivation concept, Intrinsic and Extrinsic Motivation, Role of Motivation in Team Behaviour.	
2.	February	I		
3.	February	I		
4.	February	II	Interpersonal Communication- Meaning and Importance of Interpersonal Communication	
5.	March	II	Transactional Analysis; Discovering the interpersonal orientation through FIRO-B	
6.	March	II	Discovering facets of interpersonal trust through Johari window, communication skills, Negotiation skills.	
7.	March	III	Group and Team Decision making-Concept of Group and Team, synergy of Team work; Social loafing;	
8.	March	III	Stage of Group Formation, Types of Team, Team Processes, Team Decision making; team morale.	
9.	April	IV	Conflict Management- Meaning of Conflict , Types of conflict; Levels of Conflict;	
10.	April	IV	Conflict resolution in teams, competitive vs collaborative behaviour, developing collaboration.	
11.	April	V	Strategies for Team building and OD- Concept of OD; Process of OD; OD Interventions;	
12.	April	V	Experiential learning methodologies-T- group sensitivity training, encounter groups, appreciative enquiry.	

Total Number Teaching days: _____ Whether Course is completed? Yes / No Whether extra classes required? Yes / No If yes, How many classes?

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: **Dr. Atul S. Daware** Course: **M.B.A.** Sem: **III** Subject: **Compensation and Benefits Management**

Sr. No	Month	Unit	Topics	Remarks
1.	August	I	Module I: Job Evaluation / Grade Structure	
2.	September	II & III	Module II: Compensation Planning Module III: Strategic Perspective of Compensation	
3.	October	IV	Module IV: Incentive Plans and Fringe Benefits	
4.	November	V	Module V: Statutory Provisions related to Compensation	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Atul S. Daware Course: M.B.A. Sem: III Subject: Operation Research

Sr. No	Month	Unit	Topics	Remarks
1.	August	I	Module I: Introduction to Operation Research	
2.	September	II & III	Module II: Linear Programming & Game Theory Module III: Assignment	
3.	October	IV	Module IV: Transportation	
4.	November	V	Module V: PERT / CPM	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Atul S. Daware Course: M.B.A. Sem: III Subject: Quality Toolkit for Managers

Sr. No	Month	Unit	Topics	Remarks
1.	August	I	Module I: Introduction to Quality Concepts	
2.	September	II & III	Module II: Quality Assurance and Control Module III: Statistical Process Control (SPC)	
3.	October	IV	Module IV: TQM tools	
4.	November	V	Module V: Quality Improvement Techniques	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: **Dr. Atul Daware** Course: **M.B.A.** Sem: **IV** Subject: **Sales and Operations Planning**

Sr. No	Month	Unit	Topics	Remarks
1.	January	I	Module I: Need for Operations planning and control, Forecasting	
2.	February	II	Module II: Models of Forecasting	
3.	March	III & IV	Module III: Aggregate Planning Module IV: MPS and MRP	
4.	April	V	Module V: Distribution Planning	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Atul S. Daware

Course: M.B.A.

Sem: I Subject: Business Research

Sr. No	Month	Unit	Topics	Remarks
1.	August	I&II	Theory Building and Research Proposal & Sampling Design	
2.	September	III & IV	Measurement and scaling Techniques & Methods of Data Collection	
3.	October	V	Interpretation and Report Writing	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Prof. Atul S. Daware

Course: M.B.A.

Sem: I Subject: Business Statistics & Analytics for Decision Making

Sr. No	Month	Unit	Topics	Remarks
1.	August	I & II	Measures of dispersion (Variation) and Symmetry & Measures of Association	
2.	September	III & IV	Probability and Hypothesis Testing	
3.	October	V	Business Analytics	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Atul S. Daware

Course: M.B.A.

Sem: II Subject: Human Resource Management

Sr. No	Month	Unit	Topics	Remarks
1.	February	I&II	Introduction, Nature, scope, objectives, importance and functions of HRM & Job Analysis	
2.	March	III & IV	Human Resources Planning & Introduction of Training	
3.	April	V	Performance Appraisal	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Atul S. Daware

Course: M.B.A.

Sem: II Subject: Operations Management

Sr. No	Month	Unit	Topics	Remarks
1.	February	I&II	Introduction: Concept of Operations Management & PPC - Concept of Production Planning and Control	
2.	March	III & IV	Maintenances Management & Materials Management	
3.	April	V	Industrial Engineering	

Signature of Faculty

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: **Dr. Adil Jiwani**

Course: **M.B.A. Sem: III**

Subject: **FINANCIAL DERIVATIVES**

Sr. No	Month	Unit	Topics	Remarks
1.	December	I	Introduction to Derivatives Trading and Settlement – Introduction to risk management, managing risk, types of business risks, derivatives and derivative products, classification of derivatives, participants in derivative market, functions of derivatives Trading of Derivatives Contracts Futures and Options Trading System, The Trader Workstation.	
2.	January	II	Equity Futures Derivatives and Trading Strategies– Types of Futures – On the basis of Maturity, On the basis of the underlying asset; Margining in the Futures market; Terminologies used in the Futures Market; Futures Pricing	
3.	Jan/Feb	III	Option Derivatives and Trading Strategies using options – Types of Options - Call Options, Put Options; Option Pay-Offs; Terminologies used in the Options Market; Option Pricing – Binomial Model and Black & Scholes Model	
4.	Feb/March	III	Swaps - Concept and Characteristics; Types of Swaps – Interest Rate Swaps and Currency Swaps; Structure of Interest Rate Swaps and Intermediated Interest Rate Swaps; Relation between Interest Rate Swaps and Forward Rate Agreements	
5.	March	IV	Foreign Exchange risk & Corporate Exposure Management – Types of Exposure – Transaction, Economic and Translation; Foreign Exchange Risk – Types, Risk Management Techniques – External and Internal. International portfolio diversification	

Dr. Adil Jiwani

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Adil Jiwani

Course: M.B.A. Sem: II

Subject: Financial Management

Sr. No	Month	Unit	Topics	Remarks
1.	Jan/February	I	Cost of Capital: Concept and Importance; Measurement of Specific Costs – Redeemable and Irredeemable Debt, Redeemable and Irredeemable Preference shares, Computation of Overall Cost of Capital	
2.	Feb/March	II	Leverage: Operating, Financial and Combined Leverage; EBIT-EPS Analysis; Indifference Level of EBIT and Financial Break-even Analysis.	
3.	March	III	Capital Budgeting: Concept of Capital budgeting, Discounted and Non-discounted Cash Flow Techniques – NPV, IRR, PI, Discounted PBP, ARR & PBP.	
4.	March/April	III	Working Capital Management: Concept of Gross and Net Working Capital, Estimation and Calculations of Working Capital requirements	
5.	April	IV	Dividend Policy: Walter’s Model; Gordon’s Model and MM Hypothesis for Dividend Policy and Firm Valuation, Determinants and constraints of dividend decision	

Dr. Adil Jiwani

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Adil Jiwani

Course: M.B.A. Sem: I

Subject: Legal & Business Environment

Sr. No	Month	Unit	Topics	Remarks
1.	Aug/Sept	I	Concept of Law. Nature of contract and essential elements of valid contract, Offer and Acceptance, Consideration, Capacity to contract and free consent, Legality of object. Unlawful and illegal agreements, Contingent contracts, Performance and discharge of contracts, Conciliation : Meaning , Procedure and Effect	
2.	September	II	Definition & characteristics of a company, Types of Companies, Provisions relating to incorporation:, Doctrine of indoor management & constructive notice, Management – Appointment of Directors. Company meetings. Operation and Mismanagement.	
3.	October	III	IPR Types, overview and Definitions. Patents. Copyright, Trademark, Design, Difference between Copyright and Design. Piracy of registered design. Trade Secrets, meaning and Essentials. Advantages and Disadvantages of Trade Secrets.	
4.	Oct/Nov	III	Definitions of Consumer, Goods, Service, Defect and Deficiency, Unfair Trade Practices, Restrictive Trade Practices, Rights of Consumers, Relief available against complaint, Consumer Protection Councils. Remedies under act.	
5.	November	IV	Socio-Political Environment: Economic System, Financial System, Economic Policies, Constituents of Political Environment. Freedom of Trade and Reasonable Restrictions. Economic role of Government. Demographic Structure of India. Socio Cultural Environment of India.	

Dr. Adil Jiwani

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Adil Jiwani **Course:** M.B.A. **Sem:** III **Subject:** MANPOWER PLANNING, RECRUITMENT AND SELECTION

Sr. No	Month	Unit	Topics	Remarks
1.	August/Sept	I	Manpower Planning: Meaning of HRP, Factors Affecting Manpower Planning, Need for Manpower Planning, Process of Manpower Planning, and Importance of Manpower Planning.	
2.	September	II	Manpower Forecasting: Concept, Factors affecting HRP, HRP at different levels of management, Integration of strategic planning and HRP, Process of HRP – Introduction Demand Forecasting.	
3.	September/Oct	III	Developing a Manpower Plan: Use of HRIS in HRP, HR Plan Implementation, Managerial Succession Planning, Requisites of Successful HRP, Recent Trends in HRP	
4.	October	III	Recruiting & Selecting Human Resources- Sourcing of candidates, Recruitment, Factors governing recruitment, Strategic Management & Recruitment. Selection-concept, Selection Process, use of Psychological tests, Types of tests, Psychometric tests, online test, Importance of tests.	
5.	October/Nov	IV	Recent Trends in Manpower Planning: Introduction, E-Manpower planning, e-Recruitment, e-selection Competency mapping, Knowledge management, E-Manpower Development.	

Dr. Adil Jiwani

Department of Management Studies, Nabira Mahavidyalaya, Katol
Tentative Teaching Plan - Academic Session 2022-23

Name of Professor: Dr. Adil Jiwani

Course: M.B.A. Sem: III

Subject: PERFORMANCE MEASUREMENT SYSTEM

Sr. No	Month	Unit	Topics	Remarks
1.	December	I	<i>Introduction to Performance Management:</i> Concept – Performance appraisal, Performance Management, Performance management system, Objectives and functions of Performance Management system, Linkage of Performance Management to strategic planning.	
2.	January	II	<i>Process of Performance Management:</i> Introduction to Performance Management Process, Performance Management Planning Process, Mechanism of Performance Management Planning and Execution.	
3.	Jan/Feb	III	<i>Performance Appraisal:</i> Definitions & Objectives of PA and Characteristics of PA, Importance, Advantages & Disadvantages of PA, Process of PA, Pitfall of PA, Achieving effective PA, Methods of PA, <i>Performance Appraisal Methods</i>	
4.	Feb/March	III	Swaps - Concept and Characteristics; Types of Swaps – Interest Rate Swaps and Currency Swaps; Structure of Interest Rate Swaps and Intermediated Interest Rate Swaps; Relation between Interest Rate Swaps and Forward Rate Agreements	
5.	March	IV	Models for Assessing Performance-Balance score card; Objectives and process of Performance monitoring, Performance management linked with reward systems. Building a High Performance culture-Performance Management & Employee Development.	

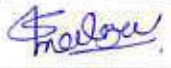


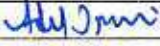



Dr. Adil Jiwani

Department of Management Studies


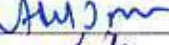

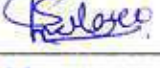



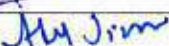
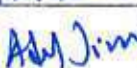
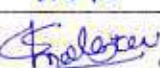


Nabira Mahavidyalaya, Katol

Review of Syllabus Completion

Sem. I & Sem. III - 2022-23

Sr. No.	Subject	Name of Teacher	% of Syllabus Completed	Signature
1.	Managerial Economics,	Dr. P. S. Mahajan	95%	
2.	Organizational Behaviour	Dr. A. S. Charde	100%	
3.	Business Statistics & Analytics for Decision Making,	Dr. A. S. Daware	100%	
4.	Legal & Business Environment	Dr. A. A. Jiwani	100%	
5.	Management Information Systems	Dr. H. L. Vaswani	80%	
6.	Financial Reporting, Statements & Analysis	Dr. P. S. Mahajan	100%	
7.	Business Research	Dr. A. S. Daware	90%	

III

Sr. No.	Subject	Name of Teacher	% of Syllabus Completed	Signature
1.	Operation Research	Dr. A. S. Daware	100%	
2.	Performance Mgmt. System	Dr. A. A. Jiwani	100%	
3.	Strategic Management	Dr. H. L. Vaswani	80%	
4.	Investment Analysis & Portfolio Mgmt.	Dr. P. S. Mahajan	100%	
5.	Integrated Marketing Comm. & Brand Mgmt.	Dr. A. S. Charde	98%	
6.	Compensation & Benefits Mgmt.	Dr. A. S. Daware	100%	
7.	Quality Toolkit for Managers	Dr. A. S. Daware	100%	
8.	Financial Derivatives	Dr. A. A. Jiwani	100%	
9.	Manpower Planning Recruitment & Selection	Dr. A. A. Jiwani	100%	
10.	Sales & Distribution Mgmt., Project Appraisal & Finance	Dr. P. S. Mahajan	100%	
11.	Supply Chain & Logistics Mgmt.	Dr. A. S. Charde	100%	
12.	Digital & Social Media Marketing	Dr. A. S. Charde	100%	


 for H.O.D.
 Deptt. of Management Studies
 Nabira Mahavidyalaya, Katol

Department of Management Studies

Nabira Mahavidyalaya, Katol

Review of Syllabus Completion

Sem. II & Sem. IV - 2022-23

Sr. No.	Subject	Name of Teacher	% of Syllabus Completed	Signature
1.	Financial Management	Dr. A. A. Jiwani	100%	Abhijit
2.	Cost Accounting	Dr. P. S. Mahajan	95%	P. S. Mahajan
3.	Marketing Management,	Dr. A. S. Charde	100%	A. S. Charde
4.	Human Resource Management	Dr. A. S. Daware	100%	A. S. Daware
5.	CSR & Sustainability	Dr. H. L. Vaswani	90%	H. L. Vaswani
6.	Management Case Analysis	Dr. P. S. Mahajan	100%	P. S. Mahajan
7.	Operations Management	Dr. A. S. Daware	95%	A. S. Daware
8.	International Business	Dr. A. S. Charde	100%	A. S. Charde

IV

Sr. No.	Subject	Name of Teacher	% of Syllabus Completed	Signature
1.	Sales and Operations Planning	Dr. A. S. Daware	100%	A. S. Daware
2.	Managing Bank and Financial Institutions	Dr. H. L. Vaswani	90%	H. L. Vaswani
3.	Retail Sales Management & Services Marketing	Dr. P. S. Mahajan	100%	P. S. Mahajan
4.	Team Dynamics	Dr. A. S. Charde	95%	A. S. Charde


for H.O.D.
Deptt. of Management Studies
Nabira Mahavidyalaya, Katol